FDI 2015 BANGKOK
Annual World Dental Congress

“DENTISTRY IN THE 21st CENTURY”
Final Programme

22-25 September 2015
Bangkok Thailand
Sensitivity can affect your patients’ lives in more ways than you might think

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A symposium from Sensodyne:
Going beyond sensitivity relief

Thursday 24th September 2015
12.30-1.45pm, Room 104A
Lunch will be available; provided by GSK
Welcome Message
(President, the Dental Association of Thailand
Under The Royal Patronage of H.M. The King)

Dear Colleagues,

It gives me a great pleasure to welcome you to the 103rd FDI Annual World Dental Congress in Bangkok, Thailand. The theme of the congress, “Dentistry in the 21st Century”, through highly respected internationally renowned speakers, will take a look at the future of dental sciences in all aspects. It provides a unique opportunity for dentists, dental auxiliaries, dental students from all over the world to convene and share novel ideas on crucial issues and trends in dental practice. The Dental Association of Thailand is proud to host this prestigious event for the first time in Thailand. Aside from the excellent scientific programs, we have prepared not to be missed social programs. Thailand with its four main regions with different cultures yet all blend in as charm Thainess is pleased to welcome you to see what they have to offer.

I'd like to express my appreciation to local organizing committee and the FDI office staff who have been working endlessly to ensure a successful congress. Thailand has arrived at a crossroads in Dentistry with younger generations forming a majority of dentists who are eager to learn and explore new concepts. This trend is happening worldwide. We are ready to welcome our guests with warm hospitality and make sure everyone leaves Thailand with a memorable experience. I wish you all a wonderful time at the 103rd FDI Annual World Dental Congress.

Best wishes and warm regards.

Phisal Thepsithar
LT. GEN. Special Professor
President, the Dental Association of Thailand
Under The Royal Patronage of H.M. The King
Welcome to 2015 FDI Bangkok
(President, Local Organizing Committee)

Sawasdee krab.

Welcome you all to Bangkok. It is a great honor that Thailand is chosen to be a host of FDI Annual World Dental Congress in the year 2015. FDI AWDC is not just an annual congress, but it is a place for sharing information, strengthening the relationship and building up the networking among people in the dentistry field.

With the theme ‘Dentistry in the 21st Century’, the program will bring up the interesting international and regional issues to discuss. Participants will meet the world renowned speakers in each specialty to share their experiences and knowledge.

This is the first FDI AWDC in Thailand, we are proud to choose Bangkok to be a city venue. All participants will enjoy the city life in Bangkok, the land of smile that never sleeps. You will experience the world-class Thai cuisines, massage, and hospitality from our people.

Bangkok is the hub of Asia, as you can travel in Thailand, enjoy the summer on the beach down south, Phuket, the world’s best tourist destination, or get to see beautiful foggy scenery on the top of the mountain up north, Chang Mai, or be impressed with the beautiful ancient city in the central part of Thailand, Ayutthaya. I do hope you will have chance to experience Bangkok and Thailand, there are so many things to explore.

Last but not least, on behalf of the local organizing committee of FDI 2015 Bangkok, I would like to express my sincere thanks to the Faculties of Dentistry from 9 universities in Thailand, Royal Thai Government, Bangkok Metropolitan Administration (BMA), Thailand Convention and Exhibition Bureau (TCEB) and Tourist Authority of Thailand (TAT) for their supports.

I wish you to have a special moment with us during your stay in Thailand.

Adirek S. Wongsa
Chairman of LOC, 2015 AWDC FDI
I am excited and proud to see this year’s FDI Annual World Dental Congress being held in Bangkok, a first time for Thailand. I would like to congratulate the organizing committee for gathering such an impressive group of national and international speakers to deliver a truly exceptional choice of lectures. We are hosting our event in the Bangkok International Trade and Exhibition Centre, first opened in 1997, and today one of the most sought-after convention centres in South East Asia.

FDI World Dental Federation serves as the principal representative body for more than one million dentists worldwide, through approximately 200 national member associations and specialist groups in some 130 countries. The Annual World Dental Congress has been FDI’s flagship event for well over 100 years. We promote international understanding and exchange of knowledge and experience in dentistry, challenging pre-conceived ideas and widening perceptions. This is even more essential today with the fast-paced development of materials and technology in line with the latest treatment philosophy.

Thailand is rapidly gathering a reputation for excellence in the field of dentistry. The profession has demonstrated remarkable advancement in areas such as access to oral health care, caries prevention and minimal intervention dentistry. His Majesty the King has shown notable support to the dental profession in the promotion of oral and dental care with his mobile dental units and encouragement to research and development in dentistry with the emphasis on self-reliance from the production of materials to self-care in oral health.

I hope that you will enjoy the congress and have the opportunity to see the sights in Bangkok and to explore Thailand. Welcome to the 2015 FDI Annual World Dental Congress!

Dr Tin Chun Wong
FDI President
The FDI Head Office Staff

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The main responsibilities of the Education Committee are the overall planning and monitoring of the Scientific Programme of the Annual World Dental Congress and Continuing Education activities of FDI World Dental Federation, and to address relevant and timely issues within the area of dental education.
FDI 2015
Organizing Committee,
Bangkok, Thailand

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Lt.Gen. Phisal Thepsithar

President of Local Organizing Committee
Dr. Adirek S.Wongsa

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Assoc. Prof. Porjai Ruangsri

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Dr. Somchai Suthirathikul
Dr. Anggoon Prashyanusorn

Secretary for FDI-AWDC 2015
Nondh Ningsanong
Congress Center Layout

Ground floor (Level 1)
- Registration Area: Local Participants and Visitor
- Press Center
- Lecture Halls
- Trade Exhibition Hall
- FDI Pavilion

2nd floor (Level 2)
- Registration Area: International Participants
- Speakers and Foreign Visitors
- Dental Parliament
- Headphone-Only for GA meeting
- Lecture Hall
- Free Communication
- E - Poster Areas
- Meet the Expert
- Hands on Courses
- Business Meeting

Outdoor and Indoor-Basement floor
- Food Court
- Parking Lot
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Opening Ceremony

SCHEDULE FOR THE OPENING CEREMONY
OF FDI 2015 BANGKOK
Federation Dentaire International (FDI)
Annual World Dental Congress 2015 Bangkok
Tuesday, September 22, 2015 Bangkok International Trade and Exhibition (BITEC), Bang na

17.00 hr  Arrival of Guests at EH 106
18.00 hr  Arrival of His Excellency, General Prayut Chan-o-cha, Prime Minister—Chairman of the ceremony
18.10 hr  FDI 2015 Bangkok Report by Lt. Gen. Special Professor Phisal Thepsitar, President of The Dental Association of Thailand (DAT)
18.15 hr  History and Mission of FDI, and Objectives of FDI 2015 Bangkok by Tin Chun Wong President of FDI
18.25 hr  Presidential Handover Ceremony (from Dr. Tin Chuan Wong (HK), to President of FDI to Dr. Patrick Hescot (Fr))
18.30 hr  FDI 2015 Bangkok Opening Remark HE. General Prayut Chan-o-cha, the Prime Minister—Chairman of the ceremony of Thailand
18.40 hr  VDO Presentation — about FDI and DAT
18.45 hr  Welcoming Performaces
19.05 hr  Flag ceremony — 139 countries
19.20 hr  Group Photo on Stage
19.30 hr  Proceed to Welcome Reception at EH 105
About FDI

FDI World Dental Federation serves as the principal representative body for over one million dentists worldwide. Its membership includes approximately 200 national member associations and specialist groups from more than 130 countries. FDI is a global player, developing health policy and continuing education programmes, speaking as a unified voice for dentistry in international advocacy, and supporting member associations in oral health promotion activities.

A non-governmental organization based in Geneva, Switzerland, FDI is governed by a General Assembly, with policy enacted by its Council and activities implemented through five standing committees comprising 60 volunteers from among its national member associations. Every year, some 300 delegates attend FDI’s World Dental Parliament to debate and define the global future of dentistry.

Working for oral health

FDI’s long and distinguished history and accumulated experience in dental education, public health and access to care make it uniquely expert. It is the only international organization in the field of oral health in official relations with the World Health Organization (WHO) and other agencies of the United Nations.

In pursuit of its vision of ‘leading the world to optimal oral health’, FDI brings together the collective expertise of its member associations and all oral health stakeholders worldwide. As the dental profession’s global and independent advocate, it champions oral disease prevention and oral health literacy and advances the ethics, art, science and practice of dentistry, facilitating exchange of information throughout the health care community. Working closely with WHO and the International Association for Dental Research (IADR), FDI is also seeking to promote oral health through the use of fluoride, an issue of concern and action within the Federation for over 50 years.

Public health advocacy

FDI has long been an active advocate in the field of public health and, in cooperation with its national member associations, continues to ensure that oral health remains high on the global health agenda. In recent times, working with partner organizations, FDI succeeded in obtaining a specific reference to oral diseases in the landmark United Nations Political Declaration on the Prevention and Control of Non communicable Diseases (NCD) and the subsequent NCD action plans of the World Health Organization (WHO).

In March 2014, FDI contributed commentary to a new WHO Draft Guideline : cigars intake for adults and children, developed to reduce public health problems like obesity and dental caries. The Guidelines propose that sugars should be less than 10% of total energy intake per day and further suggest that a reduction to below 5% of total energy intake per day would have additional benefits. Furthermore, in the light of the serious risk to oral health from smoking and tobacco products, FDI has joined its voice to international tobacco control campaigns and continues to actively engage the oral health care team in tobacco control and prevention.
Improving access to oral health care

90% of the world’s population suffers from dental caries and periodontal disease yet only 60% enjoy access to oral health care. For FDI, access to oral health care is, like access to health care, an essential human right; thus, its World Dental Development Fund (WDDF) backs projects to improve the oral health of communities around the world.

Environment and dental materials

In the recent multilateral negotiations over an international treaty on mercury (ending January 2013), FDI successfully advocated a phase-down rather than phase-out of dental amalgam, a compound containing mercury and a key restorative material in the fight against dental caries. This approach, in line with the WHO Oral Health Programme and supported by the IADR, will be coupled with a commitment to oral disease prevention and a push for research into new dental materials. In this way, the treaty, called the Minamata Convention will, thanks to interventions from the oral health community, protect both oral health and the environment.

Projects in the field

In a unique and innovative partnership with Unilever Oral Health, FDI is promoting good oral hygiene and practice in communities around the world through Live.Learn.Laugh, which enables participating National Dental Associations (NDAs) to implement oral health projects locally and promotes the message of brushing twice a day with a fluoride toothpaste. The project, launched in 2010, is now moving into its third phase. Furthermore, in line with its commitments under the Minamata Convention, FDI has recently launched a pilot project for dental waste disposal, including free installation of amalgam separators, on 9 sites in three East African countries Kenya, Uganda and Tanzania. The project is being carried out in cooperation with UNEP, WHO, the International Dental Manufacturers’ Association (IDM) and the private company Dental Recycling International (DRI).

Education

Every year, FDI provides a unique opportunity for dental professionals and all other sectors related to oral health care to meet and learn from one another during its Annual World Dental Congress (AWDC), a leading global event in the field. Ever conscious of the need to continuously improve and innovate, the new franchise model means this landmark FDI event is held alongside the national congress of one of its member associations. Throughout the year, the FDI Continuing Education Programme is pursued by its member national dental associations—on average one course every two weeks, somewhere in the world—for dentists worldwide to maintain an up-to-date clinical and theoretical knowledge of the art and science of dentistry.

Our vision for the future

FDI’s Vision 2020 paves the way for a new model of oral health care, led by dentists in collaboration with a wider range of stakeholders from all sectors of society, bearing in mind FDI’s historic concern with widening access to care. Vision 2020 focuses on five key areas: meeting the increasing need and demand for oral health care; expanding the role of oral health care professionals; shaping a responsive educational model; mitigating the impacts of socio-economic dynamics; and fostering fundamental and translational research and technology. This vision is now being actively implemented in two fields: collaborative practice; and data collection and development of key oral health indicators.

Visit the FDI stand

To learn more about FDI as well as its goals, programmes and activities, come to the FDI Stand on the second floor outside Hall E or visit it on the web at www.fdiworlddental.org.
About DAT

The Dental Association of Thailand under the Royal Patronage of H.M. The King was founded on January 4th, 1936 with the objectives to promote dental education and profession to its members, as well as to assist and disseminate knowledge of dental health to the public.

For eighty years, the Dental Association of Thailand has developed its firm foundation and is well recognised by other professional associations as a strong association that contributes to its members in a number of ways, such as:

- Organise academic conferences with the exhibitions of new dental products at least twice a year, all of which receive high rate of attendance
- Publish 6 dental journals annually
- Publish 6 dental newsletter annually
- Provide support in organising conferences and seminars for other professional associations
- Provide support for research and activities for dental students
- Provide financial support for professional activities of other associations
- Previously hosted the Asia Pacific Dental Congress (APDC) twice
- Involve in the form of committee in various public and private entities

Today, there are approximately 12,000 members. With the firm foundation and transparent operation, the Dental Association of Thailand has been recognised as outstanding and a proud association for all Thai dentists.
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Editors:
A.J.M. Lingtenberg, E.C.I. Veerman

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<th>Venue</th>
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<td>08.00</td>
<td>Registration</td>
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<td>08.30</td>
<td>Opening Ceremony</td>
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<td>09.30</td>
<td>Col Tanakrit Noppakunwijai</td>
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<td>DENTAL IMPLANT PROJECT TO IMPROVE THE QUALITY OF LIFE FOR THAI SOLDIERS AND THEIR FAMILIES</td>
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<td>BRINGING BORDER THE NEW SMILES</td>
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<td>NASOALVEOLAR MOLDING IN CLEFT LIP AND PALATE INFANTS: CASE REPORTS</td>
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<td>LCDR Chitsuda Prawsrotttukul</td>
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<td>CONSIDERATIONS FOR PLANNING ESTHETIC TREATMENT WITH VENEERS</td>
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<td>Maj Wipaansoe Phuspradit DDS</td>
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<td>THE NEW PERSPECTIVE OF ORAL APPLIANCES THERAPY FOR OBSTRUCTIVE SLEEP APNEA MANAGEMENT</td>
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<td>Maj Wongrak Wongsamut Tyatha</td>
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<td>ACCELERATED TOOTH MOVEMENT WITH MICROOSTEOPERFORATION</td>
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<td>Maj Gen Yimin Zhao</td>
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<td>AN INTRODUCTION TO THE CHINESE MUSEUM OF STOMATOLOGY</td>
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<td>REVIEW OF DENTAL EMERGENCY DURING OVERSEAS DEPLOYMENT IN JAPAN MARITIME SELF-DEFENSE FORCE</td>
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<td>Col Dwayne Lusmon</td>
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<td>ROYAL CANADIAN DENTAL CORPS ON OPERATIONS: THE CONTINUUM OF ORAL HEALTH READINESS TO DEPLOYMENT TO REHABILITATION</td>
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<td>INDONESIAN MILITARY DENTISTS' PREPAREDNESS FOR RESPONDING TO BIOTERRORISM</td>
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<td>Borg, Eric, Uth, Agnetina</td>
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<td>STUDY OF DENTAL FITNESS AMONG SWEDISH PERSONNEL IN TWO INTERNATIONAL MISSIONS</td>
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<td>16.10</td>
<td>LTC Hong, Joline DDS MSD</td>
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<td>THE STUDY FOR ORAL HEALTH STATUS OF ARMY TRAINEES</td>
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<td>LT Mizashiro Takase, LCDR Etsawa</td>
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<td>ANALYSIS OF NEW DENTAL CARRIES USING HEALTH MANAGEMENT SYSTEM IN JAPAN MARITIME SELF-DEFENSE FORCE</td>
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<td>16.50</td>
<td>Lt Gen Vimal Arora; PVSM, AVSM, VSM &amp; Bar (Retd)</td>
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<td>COGNITIVE DECLINE FOLLOWING TOOTH LOSS: A REALITY FOR OUR VETERAN DENTAL PATIENTS</td>
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*DENTISTRY IN THE 21ST CENTURY*
# FDI World Military Dental Congress 2015

## Section of Defense Forces Dental Services, SDFDS 2015

Tuesday, September 22, 2015

### Scientific Programme

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<tr>
<td>09.00 - 09.20</td>
<td>First Admiral (Dr) Bambang Hayato, Orthodontist(Dentist)</td>
<td>Btrc 210</td>
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<td>09.20 - 09.40</td>
<td>Dr Sumin Gunar, PhD</td>
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* DENTISTRY IN THE 21ST CENTURY *
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SDFDS Abstracts

UNRECOVERED WAR CASUALTIES - THE AUSTRALIAN EXPERIENCE
Lieutenant-Commander Russell Lain RANR
Oral Surgery and Diagnostic Imaging Department,
Sydney Dental Hospital Australia

Abstract:
This presentation describes the work of the Unrecovered War Casualties - Army Unit of the Australian Army (UWC-A); its mission, personnel, co-operations with the militaries of other countries, scope and range of activities. Cases illustrating the work of the Unit will be described.

The work of UWC-A commenced in 2006 with staff from the Australian Army History Unit and the unit was formally established in 2010. Its mission is: to research, investigate and recover remains believed to belong to more than 35,000 Australian servicemen and women who have no known grave from both World Wars and all conflicts to ensure Army continues to honour its fallen.

Personnel include three permanent Army members, Reserve members with skills as case officers, crime scene officers, military artefact experts, as well as triservice specialists in archaeology, anthropology, biology (DNA) and odontology.

Investigations cover two areas: Europe and Asia/Pacific. UWC-A has interagency co-operations with the military and diplomatic services of France, Indonesia, Japan, Korea, Malaysia, Papua New Guinea, United Kingdom, United States and Vietnam. The first UWC-A field activity was in 2007 in Vietnam, with the successful recovery, identification and repatriation of two soldiers missing in action since 1965. Currently the Unit has over 60 active cases. To date 25 have been recovered and 20 have been identified.

Two field investigations to illustrate the work of UWC-A are described.

ROYAL CANADIAN DENTAL CORPS OPERATIONS:
THE CONTINUUM OF ORAL HEALTH READINESS TO
DEPLOYMENT TO REHABILITATION
Col. Dwayne Leman
Commanding Officer 1 Dental Unit
Department of National Defence / Government of Canada
Canada

Abstract:
In a time of economic restraint and yet ever-increasing world tension, developing strategies to meet the oral health needs of Canadian Armed Forces personnel at home and abroad is increasingly complex. This presentation will look at various challenges that we in the Royal Canadian Dental Corps have faced; from providing support to all Army, Navy, Air Force and Joint contingencies to include Whole of Government missions such as DVI and Humanitarian Assistance, to meeting the increased expectations of our patients and keeping pace with the ever-expanding scope of dentistry. Our personnel need to be capable of deploying on any number of operations at sea or on land, and understand the demands of those they serve, regardless of their service environment. Being a Tri-service dental corps comes with its challenges (HR, platform and training cost overruns / redundancies / duplication), but as well with its benefits (HR, platform and training cost savings / similarities). I will explore how we “make it work”; our prevention strategies to improve oral health outcomes and reduce the potential for deployed dental casualties as well as our training for operations and our historic, new and future deployable platforms.

RECONSTRUCTION OF TRAUMATIC ORBITAL WALL DEFECTS WITH AUTOLOGOUS BONE GRAFT AIDED BY SURGICAL NAVIGATION
Lei Tian, Jin-long Zhao, Chun-lin Zong, Li-sheng He
Department of Oral and Maxillofacial Surgery, School of Stomatology, the Key State Laboratory of Military Stomatology, Fourth Military Medical University, Xi’an
China

Abstract:
Objective:
The authors describe a method to precisely reconstruct the trau-
matic orbital wall defects with autologous bone graft in a minimal invasive way with assist of surgical navigation, and evaluated the accuracy, convenience and feasibility of this technique.

Methods:

12 patients of zygomatic and maxillary fractures with clinically and radiologically established orbital wall defects have been included in this study. All patients were given a 3-dimensional image CT scans and the orbital wall defects were located and virtually reconstructed in the Brainlab Navigation system preoperatively. During the surgery, the fractured segments were reduced and a cortical bone graft was harvested from mandible, shaped and placed into the orbital wall to repair the defects precisely as the virtual planned. The whole surgical procedure was under the aid of real-time intraoperative navigation. All patients got follow-ups from 3 to 6 months, and the facial appearance, symmetry of eyeballs and eye movement were measured by CT data. The patient’s subjective symptoms were also evaluated postoperatively.

Result:

All patients’ traumatic orbital wall defects were precisely reconstructed by autologous bone graft with aid of surgical navigation. All patients were satisfied with the improvement of facial appearance and eye’s symmetry. No obstacle of eye movement and diplopia were reported to us. The postoperative CT scan showed the bone graft and reconstructed orbital wall were perfectly matched with the virtual plan in Navigation system.

Conclusion:

Navigation assisted autologous bone graft is an effective method to treat the traumatic orbital wall defects with more precise and minimal invasive surgical procedure, and good outcome as well. The high accuracy of surgery, improved facial and orbital symmetry, free of complications and improved subjective symptoms can acquire better treatment satisfaction from patients.

Abstract:

Chinese Museum of Stomatology is dedicated to preserving the history of dentistry and honoring our predecessors. The Museum was originally founded and housed within the building of School History Museum in September, 2007. After an extension it was reopened in a grand ceremony with a great look in October, 2010. The Museum occupies a floor space of 539 square meters, the museum houses a collection of over 3,500 items organized in 14 exhibition sections depicting the history of dentistry in the world. The exhibition covers a long time span from the animal skull fossils 20 million years ago to the state of the art dental equipment and technology, making this museum the most complete and systemic of its kind in China. Since its opening to the public, the Museum has become an important place to educate its visitors about the history of dentistry and the valuable contribution old generations have made, and to inspire young dentists and students to take responsibility for building a better future in dental education, practice, and research.

DENTAL EDUCATION IN THE PEOPLE’S LIBERATION ARMY

Sumin Guan
School of Stomatology, the Fourth Military Medical University Xi’an, China

Abstract:

In this presentation, dental education in the People’s Liberation Army will be introduced. The majority of military dentists are trained in the School of Stomatology, the Fourth Military Medical University, which is the only military dental education institution in the People’s Liberation Army (PLA) that offers undergraduate dental education. The military dental education program consists of three levels: undergraduate program, master program and PhD program, with respective training of 5, 3, and 3 years. The dental health care system is comprised of five levels, from the regiment dental team level to the most integrated dental school level. At the basic regiment level, there is usually one dentist in the regiment medical team and one dental chair. The task for this level is to conduct oral health examination through regular check-up. At division hospital level, there are usually 2-3 dental chairs. Common dental diseases, such as caries and periodontal, can be treated. At central hospital level of the military corps, 4-6
dental chairs and 5-10 beds are set. Works at this level also include supervision and technical support to division hospitals and regiment medical teams. The fourth level is Dental Centre of the PLA Navy, the Air Force and the Military Commands General Hospitals. There are 25-35 dental chairs, 20-30 beds for oral and maxillofacial surgery. The dental centers are the training centers for the corresponding military commands. The highest level of the system lies in the school of Stomatology of the Fourth Military Medical University and the PLA General Hospital. Those two institutions are centers of oral health care, dental education and dental research.

THE 2006 DENTAL SHELTER
Col. Bruno Penninguel
France

Abstract:
The military dental surgeon who was in Yugoslavia in April June 1992 demonstrated the necessity to provide mobile dental shelters for ensuring dental health of the armed forces during operational deployments. The first dental shelter has been produced in March 2006.

Initially, the general contents, electrical and hydraulic pressure equipment were considered. The fitting out and the different care possibilities were described.

Finally, the operation of the dental shelter was defined. Now, due to these mobile shelters, dental surgeons of the armed forces are able to provide suitable dental care when operationally deployed.

Keywords: Armed forces dental surgeons. Dental equipment. Dental radiology. Dental shelter. Foreign operational deployments.

INDONESIAN MILITARAT DENTISTS' PREPAREDNESS FOR RESPONDING TO BIOTERRORISM
Commander (Navy) (Dr) Zellya Purnama Rika
Commander of the Indonesian Naval Medical School Jakarta, Indonesia

Abstract:
The Indonesian military dental profession may be called upon to assist in the event of a major bioterrorism attack. In order to successfully fulfill these roles, the Indonesian military dentists must be adequately prepared, related to the military use of biological, chemical and nuclear weapons in the modern world to harm and frighten the people of the state and society. Due to this condition, the Indonesian Military Dental Institutes have a major obligation in preparing future their military dentists to fulfill appropriately this responsibility. These institutions especially those dealing with education and training should train all their military dental officers in a core set of competencies related to bioterrorism and provide additional opportunities for further education.

THE ROLE OF MILITARY DENTISTRY IN THE INDONESIAN NAVAL DENTAL INSTITUTE
First Admiral (Dr) Bambang Haryoto
Deputy Chief of Surgeon General of Indonesian Defense Force, Indonesia

Abstract:
The Role of Military Dentistry in the Indonesian Naval Dental Institute.

Military Dentistry is a sort of science of Dentistry development adapted to support as well as to serve dental and oral at Military Institute in conjunction with the dimension of both operation and military training in Army, Navy, and Air Force. Its main functions are to support and to serve dental and oral healthiness, education and training, along with research and development to enhance the proficiency of military and civilian dentist assuring the battle readiness either in peaceful time, urgencies or war, in other words it prepares a man for war. To fulfill those demands, Indonesian Defense Forces has Indonesian Naval Dental Institute which is commonly abbreviated as Ladoxgi TNI AL REM, was officially established on October 22nd 1964. At the time the need to have a dentistry division was in demand, and the idea was to develop dentistry education research and science. The vision is to prepare military personnel for war with dental and oral healthiness. The missions are to maintain dental and oral personal hygiene, to prevent disease and accidents, to heal the illness from accidents and casualties, as well as to update our personnel with the development of dental and oral science. In addition, the peace time goals of military dentistry are to provide military personnel with high quality health service, to provide preventive dentistry program, to provide both military
and civilians education programs to the dental staff, to enhance and preserve communication in medical environment, and to promote esprit de corps, physical condition, and creativity among medical staff. Management aspect plays very important roles in military dentistry such as to ensure all personnel of Dental team to develop their managerial skills, to encourage dentists providing the high quality services, to promote recruitment and retention to quality professional staff.

ORTHODONTIC-SURGICAL MANAGEMENT OF COMPLEX CASES OF CLEFT LIP AND PALATE ANOMALIES
Brig Balakrishnan Janyan
Army Dental Corps, India

Abstract:
Incidence of Cleft Lip and Palate anomalies is estimated at 1.4 live births in India.32% of cases seeking consultation at apex Military Dental Centres of Indian Armed Forces fall in the GOSLON IV/V category characterised by gross Maxillo-Mandibular discrepancy in sagittal and transverse plane of space. Thus mandating a comprehensive Orthodontic-Surgical management. In all these cases aesthetics and function are severely compromised. Presenting malocclusion in these cases are very complex requiring customised and innovative approach to address arch expansion, alignment and pre-surgical preparation. Many innovative methods have been successfully implemented with satisfying results. Cases falling in GOSLON IV/V category require Bi-jaw orthognathic surgeries or midface advancement by distraction osteogenesis. Management of post treatment relapse is a challenge and customised palataly secured permanent fixed appliances have been found to be beneficial.

A case series of complex cleft orthodontic cases would be presented with the aim of highlighting the innovative methods, interdisciplinary approach and excellent coordination among stake holders for successful outcomes.

PRACTICE OF PERIODONTAL REGENERATIVE THERAPY FOR COMBATANTS-AN INDIAN ARMED FORCES PERSPECTIVE
Col Neeru Sharma
Commanding Officer, Military Dental Centre, Allahabad, India

Abstract:
The territory of India presents amalgamation of various features with its mountain ranges, valleys, desert regions and coastal areas. Troops deployed in these areas are working under adverse climatic condition. They are susceptible to diseases of periodontium due to stress and difficulty in maintaining good oral hygiene. The major goal of periodontal therapy is to regenerate the destroyed periodontal tissues to their original architecture and function. Various modalities of periodontal regenerative therapy consist of use of bone grafts. Guided tissue regeneration, platelet rich fibrin and principles of tissue engineering. Various periodontal regenerative therapies have been practised in Indian Armed forces over the years with continuous thrust to deliver the best results to the clientele. The purpose of this paper is to present various periodontal regenerative therapies which are practised in Indian Military Dental centres. The paper discusses different techniques, their advantages, disadvantages and various factors affecting their success rate particularly in armed forces scenario. It also highlights the future direction in this ever progressing field.

COMPARISON OF TITANIUM MESH VERSUS SPLIT CALVARIAL LARGE CRANIOLASTIES
Col. (Dr) Priya Jeyaraj
Command Military Dental Centre (Northern Command), Indian Armed Forces.
India

Abstract:

Introduction:

Cranioplasty is the surgical repair, replacement and restoration of a skull defect (usually resulting from Decompressive Craniectomy in head injury patients), thus restoring calvarial shape and continuity and achieving morphological and functional rehabilitation of the cranial vault. In addition to the cosmetic and functional roles, therapeutic goals such as reversal of neurological deterioration and sensorimotor deficits can also be achieved following cranioplasty. Both, autogenous split calvarial bone grafts as well as Titanium mesh implants have been used extensively for cranial reconstructions.

Aim:

To compare the efficacy and versatility of Titanium mesh implants versus Split Calvarial grafts in large cranioplasties, and to assess any added benefits provided by either.
Material and Methods:
EIGHTEEN patients with post-craniectomy defects of varying sizes and at different locations of calvarium were studied. In addition to obvious cosmetic deformity, the patients also exhibited sensorimotor deficits secondary to large cranial defects. Cranioplasty in nine patients was carried out using 3-D Dynamic Titanium mesh implants and in the remaining nine, using Split thickness cortico-cancellable calvarial grafts. The patients were followed up for a period ranging from 3 to 4 years and observed carefully (clinically and by means of Radiographs, CT Scans & MRI) for cosmetic, functional and neurological improvements.

Results:
3-D Titanium mesh cranioplasty, in addition to producing gratifying cosmetic correction of cranial defects and remarkable functional recovery from the neurological and sensorimotor deficits, was found to offer many added benefits, such as its use in previously infected or compromised recipient sites, shorter operating time, ease in manipulation, quicker postoperative recovery, absence of any donor site morbidity, long-term stability and a ready means to aspirate any postoperative epidural collection through the mesh structure.

Split calvarial grafting exhibited disadvantages such as longer operating time, risk of intracranial complications, limited quantity of harvestable bone, prolonged period for graft revascularization and consolidation and occasional resorption of graft.

Conclusion:
Titanium mesh cranioplasty is a safe, versatile and reliable alternative to Split calvarial cortico-cancellable bone autografts, and is even the preferred option for large cranioplasties.

Cognitive decline following tooth loss: A reality for our veteran dental patients
Lt Gen Vimal Arora; PVSM, AVSM, VSM & Bar (Retd)
Presently the Chief Clinical Officer, Clove Dental Group, New Delhi
Former DGDS & Colonel Commandant of the Indian Army Dental Corps & Honorary Dental Surgeon to the President of India, India

Abstract:
Tooth loss results in sudden disruption in the sensory
pathways emanating from various receptors in the periodontal apparatus. It also causes an abrupt cessation of the neurologic encrypting in terms of occlusion and mastication; assisted by neck muscles and cranial nerves, accumulated over years from the development of dentition in childhood through deciduous and permanent teeth. Though re-mapping of these functional improvements is periodically done by cortical centers through re-wiring of neural pathways, successive loss of teeth to complete edentulism are likely to inflict significant alterations in the neuroplasticity of brain either through dysfunctions in the synaptic/extra synaptic neural junctions or by accelerated deposition of proteins. A large body of recent evidences suggests growing association between tooth loss and diminishing cognitive functions assessed through different clinical indices like mini mental and spatial copying scales and by functional magnetic resonance imaging (fMRI) and positron emission tomography (PET).
The presentation is an attempt to evaluate the anatomical and functional organization of human cognition towards perception, attention, planned action, emotion, learning, motivation, language and speech from a dental perspective. Analogies of tooth loss are correlated to other organ loss through existing models of 'Phantom limb syndrome' and 'syndactyly'. It highlights the ongoing research in Army Dental Corps combining Prosthodontics and Neurocognition through a highly dedicated multidisciplinary team approach. It makes the first call for developing it as a sub discipline in Dentistry. Considering the increasing number of neurologic disorders like Dementia/Alzheimer's disease and the challenges involved in rehabilitating these veterans, who have given their best years to the service of their country, investigations and evaluation of cognitive status seek higher priority from all military stake holders and hold greater clinical relevance in contemporary military dental practice.

Retrospective study of immediate challenges in implantretained auricular prosthesis
Major Anup Gopi,
Command Military Dental Centre (WC), Haryana, India

Abstract:

Aim:
This presentation highlights the immediate challenges involved
in implant placement, fabrication, and retention mechanisms in implant retained auricular prosthesis.

Materials and methods:
This retrospective study was conducted in the department of dental surgery, AFMC from Jan 2010 to Dec 2014. Both male and female having congenital absence, acquired loss or malformed ear without any systemic illness were included. In 48 patients, 30 males and 18 females, age ranging from 22 to 41 years, a total of 27 implants were placed, 12 in right and 15 in left side. Four patients were provided with a magnet retained prosthesis and four patients including one bilateral ear loss was rehabilitated with bar and clip retained prosthesis. Post rehabilitation they were reviewed at an interval of 03, 06, 12, 18, 24, 36 and 48 months. Minimum follow up period was 18 months and maximum 54 months. Peri-implant tissue reactions were recorded and the prosthesis were evaluated for loss of retention, wear and tear and patient comfort.

Results:
Common intraoperative complication was violation of integrity of inner cortex by drill bit leading to dural tear. Magnet retained prosthesis were easy to use due to the self-orientation. Bar and clip retained prosthesis had initial difficulty of positioning the prosthesis. Retention and stability of both the types of prosthesis were similar.

Conclusions:
Use of craniomaxil基建 implants for auricular prosthesis offers excellent support and retentive abilities. The success rate during the follow up period was 100%.

ARCHED NEEDLE TECHNIQUE FOR INFERIOR ALVEOLAR NERVE BLOCK-"THE KALYANI-VIZAG TECHNIQUE"
Surgeon Commander Ashish Chakranarayan, Surgeon Captain B Mukherjee
Indonesia

Abstract:
One of the most commonly used local anesthetic techniques in dentistry is the Fischer’s technique for the inferior alveolar nerve block. Incidentally this technique also suffers the maximum failure rate of approximately 35 - 45 %. We studied a method of inferior alveolar nerve block by injecting a local anesthetic solution into the pterygomandibular space by arching and changing the approach angle of the conventional technique and estimated its efficacy. The needle after the initial insertion is arched and inserted in a manner that it approaches the medial surface of the ramus at an angle almost perpendicular to it. The technique was applied to 100 patients for mandibular molar extraction and the anesthetic effects were assessed. A success rate of 98% was obtained.

REVIEW OF DENTAL EMERGENCY DURING OVERSEAS DEPLOYMENT IN JAPAN MARITIME SELF- DEFENSE FORCE
CDR Ebisawa Masato
Japan

Abstract:
Dental emergency (DE) rates in military have been well documented, but there is very little information about DE studies in Japan Maritime Self-Defense Force (JMSDF). It is necessary to minimize DE, because dental officers do not always be sent to troops in all operations. The Purpose of this presentation is to report information regarding DE during overseas deployment in JMSDF. Examples of factors involved in the occurrence DE are as follows: (1) Criteria for deployment by prediction of DE, (2) Oral health management in advance and during the mission, (3) Influence on occurrence DE by working environment of vessel. This presentation will focus on these factors while introducing some researches in JMSDF.

ANALYSIS OF NEW DENTAL CARIES USING HEALTH MANAGEMENT SYSTEM IN JAPAN MARITIME SELF-DEFENSE
LT Masahiro Takase*, CDR Masato Ebisawa*
1: Yokosuka Medical Service Unit, Japan Maritime Self-Defense Force
2: Division of Medical Planning Maritime Staff Office, Ministry of Defense Japan

"DENTISTRY IN THE 21ST CENTURY"
Abstract:

Objective:

Members of Japan Maritime Self-Defense Force (JMSDF) are required to receive a dental examination per year. The data of these examinations are administrated by the Health Management System. According to the previous research, the number of detected new dental caries (DNDC) is higher in younger people in JMSDF. However, the details concerning DNDC have not been analyzed. The purpose of this study is to reveal the distribution of DNDC by age group and type of tooth.

Method:

The subjects were 3,539 ship crews (aged 20-49 years) received a periodic health examination in 2012-2013. We examined the following items by Health Management System: (1) Prevalence rate of DNDC; (2) Number of DNDC by type of tooth; (3) Rate of DNDC by type of tooth (DNDC / Present teeth).

Results:

The number of patients who have DNDC was 783, and total number of DNDC was 1159. Prevalence rate of DNDC by age group was as follows: 20-24, 27.5%; 25-29, 26.7%; 30-34, 27.0%; 35-39, 15.2%; 40-44, 14.3%; 45-49, 17.3%. DNDC were highest in the wisdom teeth in the 20-24 year age group. In terms of wisdom tooth, the most number of DNDC was the upper left. In the 35-49 year age group, the number of DNDC in wisdom teeth was similar to that found in the molars. With regard to the premolars, the second premolars were 1.5-5.6 times higher in number of DNDC than the first premolars for the mandibular teeth in all age group, but the age of subjects increased, the rate of DNDC showed decreasing tendency. The upper left wisdom tooth had a higher detection rate of DNDC in almost all age groups when compared with the upper right wisdom teeth. On the other hand, the ratio of DNDC among sound teeth in the previous year by age group was as follows: 20-24, 67.5%; 25-29, 61.4%; 30-34, 53.3%; 35-39, 46.3%; 40-44, 23.8%; 45-49, 18.3%. In the 35-49 age group, DNDC among filled teeth in the previous year tended to be greater.

Conclusion:

DNDC tended to be highest in aged 20-24. The analysis by type of tooth revealed that the wisdom teeth were the highest risk for caries. The results of DNDC suggest that it is important to prevent dental caries for sound teeth in their 20's and maintain filled teeth in their 30's.

THE STUDY FOR ORAL HEALTH STATUS OF ARMY TRAINEES

LTC Hong, Jinson DDS MSD
Head of Dental Department, Armed Forces Daejeon Hospital, Korea

Abstract:

Objectives:

The purpose of this study was to evaluate oral health status, dental treatment need and oral health awareness of army trainees in the Korea Army Training Center to develop the army policy on oral health and oral health providing.

Methods: This study conducted by close oral examinations for 352 Army trainees based on the Korea National Oral Survey criteria with questionnaires. The questionnaires related to awareness and attitude on oral health.

Results:

DMFT index was 5.03, and DT was 0.65. DMFS index was 10.29 and DS was 1.49. Average of teeth needed dental treatment was 0.95 and 51.9% among teeth needed extractions was for the third molars. 48.3% of trainees needed periodontal treatment including scaling. Of the trainees, 15.4% considered their own oral status very good or good and 34.2% considered their dental status poor and very poor. Average frequency of toothbrushing was 2.6 times a day. 10.6% of trainees used tools for improving their oral health.

Conclusions:

Oral health status of army trainees affects the Army dental health care system. Close periodic oral examination on trainees and re-evaluation is recommended.
MH17
Major, Drs. P. de Vries
Dental Officer coordinating the Netherlands Military Dental Forensic Capabilities
Netherlands

Abstract:
After the plane crash of the MH17 in Ukraine a large-scale operation started to retrieve and identify the victims, their belongings and plane wreckage.

This presentation will explain the process, work and human factors in the identification of these victims.

CHANGES OF DENTAL SERVICES – NORWEGIAN ARMED FORCES
Lct Per Ldemann
Commanding officer/Chief Dental officer,Dental Services Norwegian Armed Forces
Norway

Abstract:
For the Norwegian Armed Forces ambition level, structure and available resources are under great pressure. This is not just a question of financial resources. It is as much about the organization, to adapt to new technology and to get more defence out of every dollar.

Therefore we are more focused on a defence with higher readiness, capable of rapid strength build-up, with greater endurance, and with a stronger civilian-military interaction.

When it comes to increasing reaction capability, we will need to ensure that our organisation has the necessary expertise in trauma surgery. Injuries to the maxilla – facial region appears to increase in various military operations, which requires a certain number of highly specialized maxillo-facial surgeons who can, in collaboration with other specialties, perform the necessary surgery.

The surgeons must additionally also be aware that they are a part of a military system, and that the military dimension is an additional dimension beyond the professional surgical dimension and their academic skills.

Event of major accidents - whether national or international - it will usually be relevant civil-military cooperation and possibly international collaboration.

Forensic Dentistry is often a key component in such events, and participating personnel must be trained - not only in clinical skills, but also in its role as both a military officer and expert.

To increase both the academic and the understanding that military medicine / dentistry is an important dimension, we stage courses respectively in war surgery and forensic dentistry at our military medical center/Sessvollmoen.

In the lecture I will undergo the courses’ purpose and content.

IMMEDIATE SURGICAL MANAGEMENT OF MAXILLOFACIAL BLAST & BALLISTIC PATIENTS
Col (Dr) Azad Ali Azad
Prof. of prosthodontics, Armed forces institute of dentistry/Army medical college(NUST), Rwp
Pakistan

Abstract:
Oral and maxillofacial region is a unique part of human body due to the complexity of structure and vicinity to other vital organs especially brain. Ballistics and blast injuries are unique in nature and their destructive nature may cause interference with the three basic tenets of life support e.g. airway, breathing and circulation which can be life threatening and debilitating functionally, aesthetically, and psychologically. Due to high vascularity, a significant risk to life threatening bleeding and edema and swelling due to extensive soft and hard tissue injuries might result in compromise of airway. Therefore immediate airway management and bleeding control is paramount in such injuries. In recent times, a number of terrorist organizations have been trying to destabilize Pakistan. Despite increase in multiple terrorist assault Pakistani nation stands firmly against these terrorist elements. Aim of this presentation is to provide an insight into the immediate management of such injuries and to share the knowledge and experience gained from such injuries at a secondary care hospital of Pakistan Armed Forces.
PATTERN OF MAXILLOFACIAL INJURIES IN BALLISTIC / BLAST VICTIMS AND EXPERIENCE OF THEIR DELAYED AND DEFINITIVE MANAGEMENT

Col (Dr) Azad Ali Azad
Prof. of prosthodontics, Armed forces Institute of dentistry/Army medical college(NUST), Rwp
Pakistan

Abstract:
Blast and Ballistic injuries are high velocity injuries which result in disruption of facial structure and anatomy. Every injury is unique in nature and poses a challenge to the treating surgeon. These injuries require a multidisciplinary team approach for the definitive management. Due to extensive tissue loss resulting from these injuries, a team approach with a staged flexible treatment plan is important for the management of such injuries. The definitive management aims at restoration of esthetic, and function. These patients require special care and continue to carry on with their daily life. The current presentation outlines the experience of dealing with such injuries and definitive management at a tertiary care hospital of Pakistan Armed Forces.

EXPERIENCE OF PROSTHODONTICS REHABILITATION OF BALLISTIC / BLAST VICTIMS

Col (Dr) Azad Ali Azad
Prof. of prosthodontics, Armed forces Institute of dentistry/Army medical college(NUST), Rwp
Pakistan

Abstract:
Blast and ballistic injuries are high energy injuries are unique and specific in nature due to their destructive nature and debilitating effects on esthetics and function. These injuries are not so common in the peaceful areas of the world however Pakistan have long been a victim of terrorist organizations trying to destabilize Pakistan. As a result, these injuries have increased proportionally recently among military personnel as well as civilians. Prostodontists play a vital role in management of these injuries both initially in the form of impressions, model and splint fabrication and definitely as interim and definitive implant supported prostheses. These injuries pose a great challenge due to complex nature, extensive tissue loss and scar tissue. Current presentation sheds light on the experience in dealing with such injuries from prostodontist point of view at a tertiary care hospital of Armed Forces of Pakistan.

COMTEMPORARY PRACTICE FOR CARIES PREVENTION IN ARMED FORCES SETTINGS

Col (Dr) Azad Ali Azad
Prof. of prosthodontics, Armed forces Institute of dentistry/Army medical college(NUST), Rwp
Pakistan

Abstract:
Dental caries remains the most common oral disease seen in dentistry despite advancements in science, and continues to be a worldwide health concern. It is a progressive disease and may result in severe functional debility of the patients and consumption of valuable resources. The current approach to dental caries focuses on modifying and correcting factors to favour oral health. Best practices dictate that once the clinician has identified the patient’s caries risk, a therapeutic and/or preventive plan should be implemented. Motivating patients to adhere to recommendations from their dental professionals is also an important aspect in achieving successful outcomes in caries management. Current presentation gives an insight into the contemporary practice and experience in caries prevention in Armed Forces of Pakistan.

ANALYSIS OF THE UNIQUENESS OF ANTERIOR DENTITION USING A NOVEL 3D APPROACH

Maj.(Dr) Gabriel Chong Tze Feng
Deputy Head Dental Officer, Singapore Armed Forces Dental Service
Singapore

Abstract:
Introduction:
There is much debate over the uniqueness of the anterior dentition in relation to bite mark analysis. The aim of this study was to investigate this axiom using a novel combination of an
Methods:
Anonymised upper and lower dental models of 20 patients post-orthodontic treatment with a low Peer Assessment Rating (good clinical result) were selected from the Dundee Dental Hospital and School, UK. The models were scanned by hand using an intra-oral 3D scanner and the 3D scans were then cropped to include only the incisal 2mm of the six anterior teeth. The edited 3D scans were subsequently imported into the 3D analysis software and a best fit alignment analysis of test and reference scans was undertaken using approximately 10,000 reference points. The distance between each reference point of both scans was measured and 0.1mm was the threshold criteria used to accept matches.

Results:
A pictorial map produced by the software illustrated both quantitative and qualitative data from 420 comparisons undertaken. The software was able to identify matches amongst different software files of the same scan and different scans of the same models. There was a complete mismatch between the scans of pre and post-treatment models. There were no perfect matches amongst the different post-treatment 3D scans. However, there were close similarities between four upper and seven lower models using the 0.1mm threshold.

Discussion:
Using stringent criteria, we have shown that the human anterior dentition is unique within this study population. However, the finding of several close similarities necessitates caution as bite mark analysis is not undertaken at such a level of accuracy.

STUDY OF DENTAL FITNESS AMONG SWEDISH PERSONNEL IN TWO INTERNATIONAL MISSIONS
Borg, Eva
Lith, Agneta
Sweden

Abstract:
The aim for this retrospective study was to, from existing dental records and radiographs from the mandatory dental checkup before deployment, find out the level of dental fitness among personnel in two Swedish international missions, ME03 (Bay of Aden) and FS25 (Afghanistan). The major aim was to collect facts that can lead to improvement of the preventive dental programme for Swedish personnel in international missions.

The parameters investigated included parameters as DMFT, DMFS, numbers of endodontically treated teeth, numbers of implants and the presence of third molars.

The mean number of decayed and filled teeth (DFT) and decayed and filled surfaces (DFS) for various age groups were lower than presented in earlier Swedish epidemiological studies. Few individuals had endodontically treated teeth and for most of these teeth there were no periapical radiographs available from the last checkup.

The total numbers of implants were low and most implants were placed in the upper jaw.

For a large number of bitewings the area of the third molar was not properly covered and therefore it was impossible to evaluate if there were any pathology present or any predisposing risk factors. A parallel ongoing investigation of the quality of the radiographs used in this study supports this with the fact that a large number of molar bitewings were not positioned posterior enough to cover the area of the third molar.

BRINGING BORDER THE NEW SMILES
Fort Suranaree Hospital, Nakorn Ratchasima, Thailand

Abstract:
Tooth pain, tooth loss, and gingivitis are the most common dental health problems among soldiers working in remote border areas of Thailand. According to the previous routine medical mobile services in the Northeastern region (Second Regional Army Area), these problems have had a significant impact on their quality of life. The lack of proper dental treatment due to difficulties in accessing to the services also poses a major problem.

In order to address these concerns and to improve the oral health, Dental Department of Fort Suranaree Hospital, as a leader of the medical service team of the region, has initiated a
project called “Bringing Border the New Smiles” to provide free
dental services in the areas near the border between northeastern
Thailand and neighboring countries, including Cambodia and
Lao People’s Democratic Republic.
To achieve the treatment potency, a bus equipped with
dental units and dental supplies was used to gain access and
to provide on-site dental care in those areas. With its facilities,
dental services were performed more effectively than with the
ordinary mobile dental chairs, especially for the operative and
minor surgical work. When improving the chewing ability and
dental appearance were the goals of treatment, dental prostheses
would have been addressed for those in need.
Based on the results, there was a great number of Thai,
Cambodian and Lao people who satisfied with this project be-
cause of easier access to dental care and good service quality.
Furthermore, good relationships and great co-operation between
Thailand and neighboring countries were among the great ben-
efits of this project.

CONSIDERATIONS FOR PLANNING ESTHETIC
TREATMENT WITH VENEERS
LCDR. Chatsuda Pwasooftikul WRTN.
Abhakomkrittiwong Hospital, Sattahip Naval Base, Chonburi, Thailand

Abstract :
Recently dental patients have become more focused on
the aesthetic aspect of dental treatment, rather than restoration
of function. This trend has challenged dentists to approach den-
tal esthetics in a more organized fashion. A complete esthetic
examination should be performed to enhance case selection
and treatment planning. However, a patient’s existing dental
conditions may not always be easily restored to the desired est-
thetic appearance without consideration of other disciplines such
as periodontics, orthodontics and prosthodontics. Therefore,
dental practitioners must understand the roles of each discipline
in order to achieve favorable esthetic outcome.
In order to accomplish the ultimate esthetic goals, it is very
important that the treatment plans can be established only after
comprehensive reviews of all involved disciplines.

DENTAL IMPLANT PROJECT TO IMPROVE THE
QUALITY OF LIFE FOR THAI SOLDIERS AND
THEIR FAMILIES
Col. Tanakrit Noppakunwijjal
Fort Thanarat Hospital, Prachuap Khiri Khan, Thailand

Abstract :
Restoration with dental implants is the best treatment option for
replacement of missing teeth nowadays. Implant overdentures are
overwhelmingly effective in improving masticatory function, physical
health and psychological health, especially in the edentulous
population. Nevertheless, implant treatment is very costly because it
requires specific materials and instruments, giving rise to difficulties in
access for soldiers and their families. As per the collaborative effort by the
Dental Division, the Royal Thai Army Medical Department and the Min-
istry of Public Health, we developed and conducted a project to offer
free implant treatment for those patients who otherwise would have
missed the opportunity to receive dental implants. The project was
inspired by His Majesty the King’s statement. He said that in the
case of the edentulous, unpalatable meals result in unhappiness
and unpleasant mind and unhealthy conditions. The project was
commenced at Fort Thanarat Hospital in 2008, and to date, more than 500 im-
plants have been inserted free of charge to soldiers and their families. Our
project currently extending its services to include two implant over-
dentures for veterans, for soldiers in red zone, and for soldiers working
in high-risk areas. A recent, five-year follow-up demonstrated two
positive impacts. Firstly, the quality of life of the patients participating
in our project had improved; Secondly, the dentists who worked on this project
gained more experience and improved their skills.

NASOADVEOLAR MOLDING IN CLEFT LIP AND
PALATE INFANTS: CASE REPORTS
Flight Lieutenant Rattiya Phunyanant
Bhumibol Adulyadej Hospital, Royal Thai Air Force, Bangkok, Thailand

Abstract :
Nasal alveolar molding (NAM) is a non-surgical method for
reshaping the gums, upper lip, and nostrils to minimize the se-
vity of the cleft before cleft lip and palate surgery. The aims of
NAM in cleft patients are to guide separated maxillary alveolar
segments into normal position, reduce cleft width, increase col-
umella length, correct the malposed nasal cartilages, columna and philtrum, improve symmetry of the nostril apertures, and assist lip repair under less tension to reduce scar formation after cleft lip and palate.

Treatment of NAM should be initiated as soon as possible after birth to prevent feeding difficulties and to provide many benefits. With NAM, orthodontists can improve a large cleft within a few months prior to surgery. This helps surgeons to get a better shape of the nose and a thinner scar in one surgery. A favorable result of the first surgery means fewer surgeries later in childhood. These clinical reports describe the presurgical nasoalveolar molding treatment in infants with complete cleft lip and palate.

THE NEW PERSPECTIVE OF ORAL APPLIANCES THERAPY FOR OBSTRUCTIVE SLEEP APNEA MANAGEMENT
Maj. Wipapinee Phuapradit DDS
Craniomaxillofacial pain, headaches and sleep clinic, Pramongkutklao hospital, Bangkok, Thailand

Abstract:
Snoring and obstructive sleep apnea (OSA) are common in the adult population, and oral appliances represent an easy and non-invasive treatment option for many individuals. Mandibular advancement splints move the mandible forward to improve the upper airway patency. Notably, the changes in airway configuration produced by these appliances seem to show interindividual variability, which is likely a major factor in the inconsistent clinical response associated with this treatment modality.

In order to provide predictability and consistency of treatment outcome in terms of efficacy and compliance prior to oral appliances therapy, I have conducted a pilot study using a new and effective technic by means of performing temporary mandibular advancement splint titration during the second half of baseline split night polysomnography in subjects who have tendency towards mild to moderate obstructive sleep apnea as similar to CPAP titration during the second half of baseline split night polysomnography in subjects who have tendency towards severe obstructive sleep apnea.

In conclusion, the temporary mandibular advancement splint titration during the second half of baseline split night polysomnography in subjects who have tendency towards mild to moderate obstructive sleep apnea has been proven to be effective in reducing apnea-hypopnea index significantly (p<0.045) and predicting treatment outcome prior to oral sleep appliances therapy.

ACCELERATED TOOTH MOVEMENT WITH MICRO-OSTEOPERFORATION
Maj. Wongrak Wongsamut Tiyatha
Attaché in Dental Section, Dental Division, Royal Thai Army Medical Department
Bangkok, Thailand

Abstract:
The duration of orthodontic treatment is the primary concern of most patients. It is generally accepted that the rate of tooth movement is controlled by the rate of bone remodeling, which play significant roles in tooth movement. Micro-osteoperforation is the micro-invasive option able to accelerate tooth movement. Previous animal studies have shown that performing micro-osteoperforations (MOPs) on alveolar bone during orthodontic tooth movement can increase the expression of inflammatory cytokines and chemokines known to recruit osteoclast precursors, stimulate osteoclast differentiation, accelerate the bone remodeling process and therefore increase the rate of tooth movement. The clinical trial, similar to animal studies, demonstrates that the application of MOPs can stimulate the expression of inflammatory markers, leading to increases in osteoclast activity and the rate of tooth movement. Patients reported only mild discomfort locally at the spot of the MOPs.

MICROSURGERY: SAVING PRIVATE RYAN'S MOLAR
Maj. Jasmin de Guzman, D.M.D
United States Army Dental Corps

Abstract:
The readiness and deployability of our Soldiers is reflected in their dental health. When serving our Soldiers, our intentions are to eliminate and/or prevent pain and infection, and to help our patient keep their tooth for as long as possible. We use endodontics to meet these goals, by treating and preventing apical
periodontitis. Non-surgical root canal therapy and endodontic retreatment are frequently offered routine dental treatment options. Prior to condemning a patient’s tooth, microsurgical techniques should be considered when the appropriate resources and conditions are available. With proper diagnosis, planning, and skilful execution, apical surgery can be a successful treatment modality. In this review, the biological basis, rationale and techniques of microsurgery are presented to enhance treatment provided to our Soldiers.

INITIAL MANAGEMENT OF BATTLEFIELD MAXILLOFACIAL INJURIES TO FACILITATE ANTICIPATED DENTO-FACIAL RECONSTRUCTION

Maj. Curtis D Schmidt DDS,
Oral and Maxillofacial Surgeon, USA, DC

Abstract:

Initial management of complex maxillofacial trauma can be difficult, time consuming, and resource intensive. Primary objectives will typically include stabilization and life saving measures. Most physicians providing initial management understand that later reconstruction will be required but often fail to take into account the dental rehabilitation that will be necessitated or desired.

This discussion will focus on specific challenges associated with initial management of complex maxillofacial trauma in an austere environment. Then, taking into account these challenges, I will propose specific strategies to employ in various injury patterns. These strategies will have the objective of minimizing subsequent surgeries and improving outcomes of anticipated dento-facial reconstruction that will greatly enhance the quality of life of those injured.
### Level 1 (Ground)

#### Time / Halls
- **EH 101**
- **EH 104 A**
- **EH 104 B**

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| 09:30-10:30  | Regenerative endodontics
Kenneth Hargreaves | Genetic influence in caries and fluorosis
J. Timothy Wright | Early orthodontic orthopedic treatment
Peter Ngan |
| 10:30-11:00  | Coffee Break | Different approaches to managing early childhood caries using surgical and non-surgical approaches
J. Timothy Wright | Non-compliant orthodontic appliances for 3-D control of occlusal plane
Eric Liu |
| 11:00-12:00  | Lunch Break | GSK Symposium
Gunh Health
Francisca D'Aalto
Stephen Mavin | Lunch Break |
| 12:00-14:00  | Coffee Break | Paradigm shift in paediatric dental caries management
Apa Juntawee | FDI Dental Practice Committee Forum
Medico-Dental Inter-Relations
Nermin Yamalik
Prabha Phumvanit
Michael Gill |
| 14:00-15:00  | Impact of new ceramics and digital workflow on dental practice
Marco Ferrari | When teeth go wrong: Teeth and genetic syndromes
Piranthi Kantaputra |
| 14:30-15:00  | Coffee Break | |
| 15:30-16:30  | Impact of new ceramics and digital workflow on dental practice
Marco Ferrari | When teeth go wrong: Teeth and genetic syndromes
Piranthi Kantaputra |

### Level 2

#### Time / Halls
- **OH 201**
- **202-203**
- **217**
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| 09:30-10:30  | Digital dentistry with composite
Ivo Krijci | | | | | |
| 10:30-11:00  | Oral rehabilitation for the edentate elderly
Alexandre Mersel | | | | | |
| 11:00-12:00  | | | | | | |
| 12:00-14:00  | Lunch Break | NSK Luncheon Seminar
New Concept and Clinical Applications of Piezo for Implant and Bone Surgery
Katsuhisa Ogita | Meet-the-Expert
Financial management
Alexander Törneier | Meet-the-Expert
Preserving vitality of a tooth with a large caries defect
Hien Ngo | Section of Defense Forces Dental Services
SDFDS 2015 |
| 12:30-13:30  | 12:30-13:30 | | | | | |
| 13:00-14:00  | Innovative 3D imaging technology
Young-Guk Park | | | | | |
| 14:00-15:00  | | | | | | |
| 14:30-15:00  | Coffee Break | | | | | |
| 15:30-16:30  | Simultaneously anterior tooth aligning and canine distalisation using ultra-light force mechanics
Chirat Charanmratru | World Oral Health Forum
New WHO Guideline on sugar intake for adults and children
Chizuru Nishida
Paula Moxini
Rob Beaglehole
Mosi Mwatsama | | | | | | |
Regenerative endodontology
Kenneth Hargreaves (USA)

Learning Objectives
At the completion of this course, the practitioner should be able to:
- Describe the three major steps in tissue engineering and how they apply to regenerating the pulp-dentin complex;
- Understand the clinical principles needed for regenerative endodontic procedures;
- Be able to describe clinical outcomes of successful regenerative endodontic procedures.

Abstract
Considerable excitement exists for developing dental applications that employ post-natal stem cells and concepts of tissue engineering. Although much remains to be done to advance in this field, progress has been made in clinical regenerative endodontic procedures: literally, saving teeth by regenerating a functional pulp-dentin complex. This program will describe the current status of regenerative endodontic procedures, their potential and predictors of healing success. Both clinical and basic studies will be reviewed to provide the practitioner with the latest information in this field with an emphasis on practical steps to be applied to these procedures in treating selected patients.
**Digital dentistry with composite**  
*Ivo Krejci (Switzerland)*

**Time**: 09:30 - 10:30  
**Room**: GH 201 (Level 2)  
**Language**: English  
**Chair**: Chaiwat Maneenut  
**CERP**: 1

**Learning Objectives**
- To learn about the indications of composite materials in the field of digital dentistry;  
- To learn about biomaterials and physical properties of composite materials used for digital dentistry in comparison to ceramics;  
- To understand the adhesive technique with digitally fabricated composite restoration;  
- Presentation of clinical cases realized with the help of digitally fabricated composite restorations.

**Abstract**
Dental caries is a highly prevalent disease that is disproportionately distributed in the population. The etiology is complex and multifactorial with contributions from nutrition, tooth morphology, fluoride exposure, microbial ecology, salivary flow, oral hygiene and other factors that remain to be defined. The magnitude of each of these factors contributes to caries and can vary significantly on an individual basis. The relative contribution of genetics and environment in each of these domains has not been defined, but is being examined using approaches ranging from twin studies to molecular genetics. Twin studies suggest about 50% of an individual’s caries risk and resistance is determined by genetics. Genes associated with dental caries are now numerous and include genes important in enamel formation, taste sensation and others. Enamel formation genes also contribute to an individual’s susceptibility to dental fluorosis.

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**Genetic influence in caries and fluorosis**  
*J. Timothy Wright (USA)*

**Time**: 09:30 - 10:30  
**Room**: EH 104 A (Level 1)  
**Language**: English  
**Chair**: Piranit Kantapattra  
**CERP**: 1

**Early orthodontic/orthopedic treatment**  
*Peter Ngan (USA)*

**Time**: 09:30 - 10:30  
**Room**: EH 104 B (Level 1)  
**Language**: English  
**Chair**: Somchai Satrawaha  
**CERP**: 1

**Learning Objectives**
- Indication for early orthodontic/orthopedic treatment;  
- Timing of early orthodontic/orthopedic treatment;
- Use of facemask and functional appliance for early orthodontic/orthopedic treatment.

Abstract
Are functional appliances able to increase mandibular length in Class II patients? Are protraction facemasks able to produce orthopedic effects in Class III patients? Are these effects long-term? What are the factors that influence the outcomes of functional jaw orthopedics and what type of patients are suitable for this treatment? The speaker will address these key issues pertaining to functional jaw orthopedics and illustrate with clinical cases.

Oral rehabilitation for the edentate elderly
Alexandre Mersel (Israel)

Time : 11:00 - 12:00
Room : GH 201 (Level 2)
Language : English
Chair : Chatwat Maneenut
CERP : 1

Learning Objectives
- Evidence based correlation between denture quality and patient satisfaction;
- Any intervention might lead to a psychological or a medical collapse;
- Necessity to maintain the patient's balance providing a good quality of life.

Abstract
Despite the fact that the dentist is applying the rules he was taught, he is disappointed with the results. In fact, there is no evidence based correlation between the denture quality and the patient satisfaction. Unfortunately some dogmas dragged down the prosthetic procedure to pitfall. The important issues are: impressions, occlusion, and relation between denture quality and patient satisfaction. For the elder frail patient any intervention might lead to a psychological or a medical collapse. During the treatment it is necessary to maintain the balance, and provide a good quality of life. Therefore a new bio-ethic approach should be introduced in the Education Programs.

Different approaches to managing early childhood caries using surgical and non-surgical approaches
J. Timothy Wright (USA)

Time : 11:00 - 12:00
Room : EH 104 A (Level 1)
Language : English
Chair : Pranit Kantaputra
CERP : 1

Abstract
Surgical or restorative treatment of dental caries addresses esthetics and can replace lost form and enhance function of the dentition. The placement of restorations alone does not alter the disease trajectory of dental caries. While fluoride helps prevent and arrest dental caries, a variety of other non-surgical therapeutic approaches have been recommended to help manage dental caries. Systematic reviews provide evidence as to the benefits of therapies including casein-phosphoprotein ACP, xylitol, and chlorhexidine. Evidence for other therapies including probiotics, silver fluoride, silver nitrate, arginine bicarbonate and calcium carbonate. This course will review the current evidence available for each of these different therapeutics.

Non-compliant orthodontic appliances for 3-D control of occlusal plane
Eric Liou (Taiwan)

Time : 11:00 - 12:00
Room : EH 104 B (Level 1)
Language : English
Chair : Somchit Satrawaha
CERP : 1

Learning Objectives
- Non-compliant orthodontic mechanisms without TADs;
- Correction of posterior cross bite;
- Correction of occlusal cant.
Abstract
The correction of posterior cross-bite, anterior open bite, transverse control of the intermolar-width and torque, or occlusal cant is a challenge in orthodontics. This presentation will address the non-compliant approaches for the correction of these problems. These appliances include a TMA-TPA and a mandibular NiTi archwire for the correction of posterior cross-bite, a pair of extruding cantilever arms and NiTi bite aligners for the correction of vertical control. For the correction of occlusal cant, the appliances are LHA, TPA and a wavy continuous archwire called Yin-Yang archwire. The appliances and mechanics will be presented.

Industry Lunch Symposia 12:30 – 13:30

GSK Symposium
Gum health: The science of a sodium bicarbonate toothpaste
Francesco D’Aluto (United Kingdom)
Charles Parkinson (United Kingdom)
Stephen Mason (United Kingdom)

Time : 12:30 - 13:30
Room : EH 104 A (Level 1)
Language : English
Chair : Stephen Mason
CERP : 0

Gingivitis: Overview, aetiology and management
Francesco D’Aluto (United Kingdom)

Learning Objectives
- Gingivitis: why patients ignore the “red alert” of blood in the sink;
- Share latest gingival index and bleeding on probing data for 67% sodium bicarbonate toothpaste.

Abstract
Dr Francesco D’Aluto will deliver an overview of gingivitis as reversible inflammation of the gums due to the build-up of plaque bacteria (dental biofilm). He will review the fact that bacteria associated with dental plaque-induced gingivitis are different from those associated with general health. Dr D’Aluto will then review the prevalence of periodontal diseases before identifying the key stages of gingivitis and treatment options.

parodontax®: Mode of action
Charles Parkinson (United Kingdom)

Learning Objectives
- Latest scientific thinking on the mode of action of a 67% sodium bicarbonate toothpaste.

Abstract
The presentation will outline the mechanism of action of sodium bicarbonate in the mouth, explaining the ability of parodontax toothpaste to ‘help stop bleeding gums’. While sodium bicarbonate is an established ingredient in oral care products, our investigations into its mode of action and effects in the oral cavity have highlighted new and interesting data. These data will be presented here.

parodontax®: Effective and greater immediate plaque removal
Stephen Mason (United Kingdom)

Learning Objectives
- Share latest plaque reduction data for 67% sodium bicarbonate toothpaste.

Abstract
The presentation will outline the plaque removal benefits of parodontax toothpaste by presenting the data gathered from several single brushing studies. In addition to this data further sub-analysis data will also be presented on the plaque removal benefits of parodontax in the ‘hard to reach areas’ of the mouth.
NSK Luncheon Seminar  
New Concept and Clinical Applications of iPiezo for Implant and Bone Surgery  
Katsuha Ogawa (Japan)

Time : 12:30 - 13:30  
Room : 217 (Level 2)  
Language : English  
Chair : Suchanan Achariyasuja  
CERP : 0

Learning Objectives
To introduce the clinical application of an ultrasonic surgical system based on various cases, surgical equipments and techniques to achieve superior implant surgery outcomes.

Abstract
The recent development and commercialisation of new surgical devices and equipment in oral surgery has marked a new milestone in the pursuit of operational stability, clinical efficacy and patients' safety. The success of an implant surgery hinges not only on the correct selection of surgical devices but also on the surgeon's experience and techniques. At this seminar, the speaker will discuss the new concept, clinical application and efficiency of an ultrasonic surgical system that has helped him achieve successful surgical outcomes.

Meet-the-Expert  
Preserving vitality of a tooth with a large caries defect  
Hien Ngo (Kuwait)

Time : 12:30 - 13:30  
Room : 221 (Level 2)  
Language : English  
CERP : 1

Afternoon sessions 14:00 - 16:30

World Oral Health Forum  
New WHO Guideline on sugar intake for adults and children  
Chizuru Nishida (WHO, Switzerland)  
Paula Moynihan (United Kingdom)  
Rob Beaglehole (New Zealand)  
Modi Mwatsama (United Kingdom)

Time : 14:00 - 16:30  
Room : 202-203 (Level 2)  
Language : English  
Chair : Harry-Sam Selikowitz  
CERP : 0

A new WHO guideline recommends adults and children reduce their daily intake of free sugars to less than 10% of their total energy intake. A further reduction to below 5% or roughly 25 grams (6 teaspoons) per day would provide additional health benefits. Due to the importance of sugar as a risk factor for caries and other NCDs, the WOHF will discuss this important Guideline and its consequences. The WOHF will be a panel discussion, which aims at supporting FDI member National Dental Associations to understand the global and oral health challenges linked to sugar intake. Dr. HS Selikowitz will introduce the topic and the panelists.
New WHO Guideline on Sugars intake for adults and children
Chizuru Nishida (WHO, Switzerland)

Effect on caries and global policy on intake
Paula Moynihan (United Kingdom)

Dentists and sugary drinks: A call for action
Rob Beaglehole (New Zealand)

Sugar & NCDs and the policy options for action
Modi Mwatsama (United Kingdom)

FDI Dental Practice Committee Forum
Medico-Dental Inter-Relations
Nermin Yamalik (Turkey)
Prathip Phatumvanit (Thailand)
Michael Glick (USA)

Time : 14:00 - 16:30
Room : EH 104 B (Level 1)
Language : English
Chair : Bedros Yavru-Sakuk
CERP : 2.5

Inter-professional education and dentistry
Nermin Yamalik (Turkey)

Learning Objectives
- Goals of inter-professional education;
- The relation of inter-professional education, collaborative practice and workforce planning;
- The role of professional associations in policy and advocacy for inter-professional education.

Abstract
In recent years an increasing emphasis is being placed on inter-professional education (IPE) including the driving forces behind IPE, its benefits in improving health outcomes and better responding to needs of individual patients and the public at large and the interrelated nature of IPE with collaborative practice and workforce planning. Since dentistry is an important part of the wider healthcare system it is important that dental professionals, dental educators and professional dental organizations start focusing on IPE, the essence of team-based learning and the identified mechanisms which shape IPE, various systems and models of integrated education and collaborative practice, and the impact of IPE on health professions, including dentistry, in responding to the (local) needs and increasing the efficiency of health care delivery for all in-need. Thus, this presentation will essentially focus on: - IPE and the mechanisms which shape IPE; - The impact of IPE on collaborative practice and collaborative practice-ready workforce; - Best practices and good models of IPE and collaborative practice.

Inter-professional education: Future perspective for dental education
Prathip Phatumvanit (Thailand)

Learning Objectives
- To apply the inter-professional education in dental curriculum;
- To integrate joint study for dental and medical students;
- To foresee the future role of dentists for collaborative practice.

Abstract
Health education has been moving toward health-oriented approaches through global health promotion. Dental education has to be updated with these changes through inter-professional education. The future dentists will be oral health leaders to promote both oral and general health leading to quality of life of the people. Through inter-professional education, dental students will study together with the medical students more, especially in translation of life science to clinical practice. Also, some dental time-consuming laboratory work may be reduced for people-oriented courses. The inter-professional education will shape the future dentists towards oral physicians, oral health leaders for collaborative practice with advanced technologies.

Oral and systemic connection
Michael Glick (USA)

Learning Objectives
- Evaluate studies reporting on association between oral and systemic conditions;
The role of oral infections and general health:
Inform patients about the association between oral infections and their health.

Abstract
During the past couple of decades there has been a renewed interest in the association between oral infections and systemic diseases. As these associations are discussed in the non-professional literature, patients are becoming aware of these associations and will sometimes ask their oral health care provider for more information. This presentation will help oral health care professionals evaluate studies discussing presumed association between oral and non-oral conditions, and provide guidance on how to address these associations with their patients.

White and pink aesthetics. A concept from the practice - for the practice
Urs Brodbeck (Switzerland)

Time : 14:00 - 15:00
Room : EH 101 (Level 1)
Language : English
Chair : Rajapas Panich-ultra
CERP : 1

Learning Objectives
To be able to plan and execute a challenging aesthetic reconstruction regarding both pink and white aspects.

Abstract
The search for aesthetic nature like restorations is one of the major challenges in modern dental research. In the last decade, ceramics and adhesive technology went through dramatic developments. For an optimal aesthetic outcome, it is absolutely mandatory to restore the soft tissues as well. The same is true for natural teeth and as well for implants. Nowadays the clinician has a big variety of different ceramic products to restore teeth (white aesthetics) and operation methods to modify the surrounding living tissues (pink aesthetics) to satisfy even high esthetic demands. This presentation will address the surgeons as well as the prosthodontists and periodontologists.

Innovative 3D imaging technology in orthodontics
Young-Guk Park (South Korea)

Time : 14:00 - 15:00
Room : GH 201 (Level 2)
Language : English
Chair : Tanan Jaruprakorn
CERP : 1

Learning Objectives
- To introduce the 3D imaging technology in the orthodontic arena:
- To transfer the information on how to emulate the 3D imaging data and its clinical application.

Abstract
Of the variety of clinical examination tools for diagnosis and establishment of treatment plan, the VTO has been employed to determine the third tooth position in lateral dimension of face and denture. The conventional diagnostic programs are based upon 2 dimensional analyses, and the 3 dimensional evaluations and prediction of facial changes are not feasible. These limitations demand the new device that fulfills the needs for 3 dimensional evaluation. The aim of the presentation is to introduce the 3D imaging technology in orthodontics, thereby transferring the information on 3D imaging technology and clinical uses.

Paradigm shift in paediatric dental caries management
Apa Juntavee (Thailand)

Time : 14:00 - 15:00
Room : EH 104 A (Level 1)
Language : English
Chair : Pattarawadee Leelataweewud
CERP : 1

Learning Objectives
Participants will be able to learn:
- Paradigm shift in the way professions approach prevention and management of the disease emphasized on medical strategy and therapeutic intervention including use of natural extracts to reduce caries producing bacteria;
- Non-surgical strategies as well as biochemical approaches to paediatric dental caries management.

Abstract
Paediatric dental caries will require a paradigm shift in the way dental professions approach prevention and management of the disease. Prevention of dental caries has relied upon patient cooperation and significant lifestyle changes that are at best difficult to implement and maintain or at worst ignored. The paradigm shift in paediatric dental caries management demands that clinicians redirect their energies and emphasis from the "operative" approach to dental caries to a "medical" strategy and appropriateness of therapeutic intervention including the use of antimicrobials to reduce caries producing bacteria. This revolution in how dentists approach the problem will require the development of non-operative strategies as well as biochemical approaches on the essentials of the paradigm shift.

Impact of new ceramics and digital workflow on dental practice
Marco Ferrari (Italy)

Time : 15:30 - 16:30
Room : EH 101 (Level 1)
Language : English
Chair : Rajapas Panich-utra
GERP : 1

Learning Objectives
- To make an overview of new ceramic materials available on the market with particular attention to zirconia and its clinical applications;
- To review digital workflow mainly related to prosthetic treatments;
- To evaluate impact of new technologies and prosthetic materials in daily practice.

Abstract
This presentation will be divided in three parts:
- New ceramic materials will be shown and discussed scientifically and clinically, looking at properties of the ceramics and their clinical indications;
- The digital workflow will be compared to the traditional one, evaluating differences in reliability, working time, costs and quality of final results;
- The change in the working organization due to new technologies will be discussed.

Simultaneously anterior tooth aligning and canine distalization using ultra-light force mechanics
Chairat Charoemratrote (Thailand)

Time : 15:30 - 16:30
Room : GH 201 (Level 2)
Language : English
Chair : Tanan Jaruprakorn
GERP : 1

Learning Objectives
- How to align teeth and to distalize canine simultaneously using ultra-light force;
- How to modify the technique to apply in other types of tooth movement;
- To know the benefits of the technique.

Abstract
Traditional orthodontic treatment for crowding cases usually starts with tooth aligning followed by canine retraction. To shorten the treatment time, these 2 stages of treatment were performed simultaneously. Anterior tooth aligning was introduced at the same time as canine distalization using small round NiTi arch wire with bending. The bending is aimed to push the canine distally as well as to align the anterior teeth. Ultra-light force is delivered during moving the teeth. Less pain with reasonable greater amount of tooth movement can be observed. In this presentation, the various cases that applied this technique will be presented, and the benefits from this approach will be discussed.
When teeth go wrong: Teeth and genetic syndromes
Piranit Kantaputra (Thailand)

Time: 15:30 - 16:30
Room: EH 104 A (Level 1)
Language: English
Chair: Patarawadee Leelataweewud
CERP: 1

Learning Objectives
- The audience will understand how dental anomalies make us understand more about genetic disorders;
- The audience will learn how to use teeth in syndrome diagnostic procedures;
- The audience will learn how to recognize genetic syndromes by using oral manifestations.

Abstract
A number of dental patients have genetic disorders which may have systemic involvements such as congenital heart diseases and brain disorders. The ability to recognize if your patients have genetic syndromes is beneficial for your clinical practice and the understanding of human development. Patients with Microcephalic Osteodysplastic Primordial Dwarfism type II have been reported to have the smallest teeth in the world and some of them have been reported to have strokes at very young ages. Patients with Amelogenesis Imperfecta, hypoplastic type may have nephrocalcinosis or kidney stones if they have mutations in FAM20A. This syndrome is known as “Enamel-Renal-Gingival Syndrome”. The lecture will cover common genetic syndromes and how to recognize them. The syndromes that will be included are Holoprosencephaly, X-linked hypohidrotic ectodermal dysplasia, Ellis-van Creveld syndrome, Rapp-Hodgkin syndrome, AEC syndrome, and Van der Woude syndrome etc. In addition, this lecture will also demonstrate how writing a case report is important for understanding human biology.
### Level 1 (Ground)

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<td>Year in Review Dental Research</td>
<td>Minimal Intervention Dentistry: a patient centered approach to managing caries</td>
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<td>Colgate Symposium Contemporary strategies for caries management</td>
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Learning objectives
- To understand that making a diagnosis of hereditary conditions is increasingly important due to new therapeutic approaches;
- To be aware of hereditary conditions that are being tested for management by protein replacement therapy.

Abstract
The Human Genome Project marshaled in a new era of understanding hereditary conditions that involve the craniofacial complex. Knowledge of the molecular basis of hereditary conditions and the developmental implications has allowed new and novel therapeutic approaches to be evaluated. While gene therapy has long been thought to be the ultimate therapeutic approach for managing hereditary conditions, recent advances in protein replacement has shown promise. Fusion proteins are being designed to manage a number of conditions including X-linked hypohidrotic ectodermal dysplasia and hypophosphatasia. While this approach does not correct the underlying genetic defect, the replacement protein can allow more normal cellular function and potentially reduce the negative effects caused by deficient amounts of a functional protein. There are multiple clinical trials currently underway around the world testing protein replacement protocols in humans.

Big data for health
Michael Glick (USA)

Learning objectives
- understand the concept of “big data”;
- assess how “big data” will affect dentistry;
- interpret “big data” information.

Abstract
An understanding of how to collect, interpret and apply “big data” are essential parts of dentistry today and tomorrow. Advances in “big data” processing for health informatics will impact both future clinical research and practice, affecting the entire domain of oral health care. This presentation will describe how we define and use “big data” and help make sense of this rapidly emerging concept.
Hot topic session
Complications with dental bonding
Nobuo Nakabayashi (Japan)
Marco Ferrari (Italy)
Timothy Watson (United Kingdom)

Time : 09:30 - 12:00
Room : GH 201 (Level 2)
Language : English
Chair : Timothy Watson
CERP : 2.5

How to remove microleakage at the bonded interface
Nobuo Nakabayashi (Japan)

Learning Objectives
- Preparation of diffusive monomers to form microleakage-free bonded specimens;
- Completely seal the interface by preparing hybridized dentin.

Abstract
We have to treat prepared dentin to create diffusion pathway for monomers to prepare hybridized dentin, but microleakage-free.

Complications on bonding/luting posts into root canals
Marco Ferrari (Italy)

Learning Objectives
- To understand how complications can take place;
- To make proper diagnosis of post's complications;
- To prevent possible complications.

Abstract
Thanks to improvements of bonding/luting materials and techniques, it is now possible to make esthetic restorations of endodontically treated teeth reducing biological costs. During this presentation an overview of adhesive-luting procedures and fiber posts available will be shown. It will be explained how a type of complications/failures are faced more frequently when metallic posts vs fiber posts are used. Bonding into root canal procedures will be examined deeply and then, clinical procedures for restoring endodontically treated teeth using fiber posts will be presented. Also techniques for increasing the bond strength to the post surface and to dentin will be shown. An overview of fiber posts available in the market will be made. Finally, long term clinical results, success and failures of fiber posts will be reported. The presentation will use some video and clinical cases to better explain scientific concepts.

Practical ways to improve dental bonding
Timothy Watson (United Kingdom)

Learning Objectives
Understand:
The influence of tooth preparation on adhesion
Problems in mixing and handling materials
Differences in resin-based adhesive systems and their handling
Optimising handling of glass ionomer cements and calcium trisilicate cements

Abstract
There are very few bad adhesive dental materials. The greatest likely cause for failure of adhesively bonded restorations is in the handling of these materials by the dental team: the dentist and their assistant. Manufacturers have strived to simplify the handling and presentation of many dental materials, but there are still areas of complexity that can interfere with a successful outcome. The speaker has undertaken much research in the field of adhesive materials, and is co-author of the latest, 10th edition, of Pickard's Guide to Minimally Invasive Operative Dentistry, (Oxford University Press) where many of these practical aspects are discussed.

Minimal Intervention Dentistry: a patient-centered approach to managing caries
Hien Ngo (Kuwait)
Suchit Poolthong (Thailand)
Douglas Young (USA)
Jack Dillenberg (USA)

Time : 09:30 - 12:00
Room : EH 104 A (Level 1)
Language : English
Chair : Daniel Meyer
CERP : 2.5
Minimal intervention and minimally invasive dentistry
Hien Ngo (Kuwait)

Learning Objectives
- Understand the importance of tooth preserving restorative principles;
- How to minimise post-operative complications with large restorations;
- Understand guidelines in the selection of restorative materials and techniques.

Abstract
The average life span of a direct tooth colored restoration is still hovering around 10 years, while the life span of our patients is extending beyond 80 years. Today, technological innovations have provided dental professionals with new tools and science has provided us with better understanding on how to extend the longevity of restorations. This lecture aims at identifying important factors that govern clinical success, reviewing possible solutions and demonstrating practical ways at preserving and restoring tooth structure.

Caries management in the 21st century: Evolution in caries management
Suchit Poonthong (Thailand)

Learning Objectives
- Describe the history of caries management;
- Demonstrate changes in caries management paradigm;
- Present the current caries management concept for dental educators.

Abstract
Since its inception, the FDI has launched a policy statement on the Minimal Intervention in the management of dental caries. As educators we must follow and adapt to both the contents and teaching of the objectives. We have been teaching caries management using standard procedure, with all patients receiving similar treatment regardless of their oral environments. Presently we have specified the role of patient treatment to that of a physician, and if necessary, a surgeon would intervene rather than a technician to drill standard size cavity. In this symposium, the paradigm shift of caries management for educators will be presented from the past to present, followed by speculative future.

Managing caries in the 21st century: Can we speak with one loud voice?
Douglas Young (USA)

Learning Objectives
- The course will outline the importance of global unification regarding clinical implementation of caries disease management principles;
- Current examples of clinical management of dental caries disease using the 2002 FDI five core principles will be presented;
- The presentation will open discussion on how FDI and other stakeholders can collaborate together to expedite adoption of the 2002 FDI minimal intervention principles into clinical practice.

Abstract
It has been over a decade since the October 2002 FDI POLICY STATEMENT Minimal Intervention in the Management of Dental Caries was adopted by the FDI General Assembly in Vienna, yet broad clinical adoption worldwide remains extremely slow. Dr. Young will discuss the need for global unification of clinical management principles focusing on what we all can agree upon rather than where we differ. A brief scientific overview of the 2002 FDI five core principles will be presented. Focusing on what we can agree on and speaking with one loud voice will benefit patients and our profession worldwide.

The 21st century dentist – Innovator, leader, clinician and servant in relation to Minimal Intervention Dentistry
Jack Dillenberg (USA)

Learning Objectives
- Explain the qualities required for good leadership;
- Describe the importance of mobile technology as a source of health information for the underserved;
- Understand the value of social entrepreneurship and the impact it has on improving health.
Abstract

Whole session: Both the United Nations (UN) and FDI have recognized the impact of oral health on non-communicable diseases and global health through a ground-breaking Political Declaration (UN) in 2011 and Policy Statement (FDI) in 2013. On the specific issue of dental caries, the FDI had issued a Policy Statement on Minimal Intervention in the Management of Dental Caries (2002), Classification of Caries Lesions of Tooth Surfaces and Caries Management Systems (2012) and Salivary Diagnostics (2013). Dental caries is a major health burden to the community and its effect on the well-being of individuals cannot be underestimated. Its impacts include: high financial burden, pain and suffering, impairment of function, lowering quality of life and the high level of inequalities in accessing oral health care is unacceptable in many countries. It has now been clearly demonstrated that individuals can benefit substantially from the Minimal Intervention (MI) approach to managing dental caries. The key steps toward the provision of good oral health care are: - Assessment of caries activity at the time of examination to identify which factors are most probably driving the activity; - Assessing the risk of a patient developing the disease in the future. Using MI, it becomes possible to design a patient-centered non-surgical curative and surgical repair treatment to their true needs. When it comes to surgical repair, this should be done using Minimally Invasive techniques with the overall objectives being the preservation of tooth structure and tooth vitality. This seminar will describe the rationale for the MI philosophy in managing caries at both community and individual levels and the application of minimally invasive restoratve techniques. Participants will be armed with a deeper understanding of Minimal Intervention and take home practical tips on Minimally Invasive Dentistry.

Public Health Committee/Chief Dental Officers' Forum
Control of NCD through oral health: Community approach
Hiroshi Ogawa (Switzerland)
Fadil Elamin (Sudan)
Supranee Dalodom (Thailand)

Time : 09:30 - 12:00
Room : EH 104 B (Level 1)
Language : English
Chair : Paulo Melo
CERP : 2.5

Prevention and control of NCD : WHO vision
Hiroshi Ogawa (Switzerland)

Learning Objectives
- Developing oral health strategies under the NCDs umbrella;
- Understanding common risk factor approach;
- Role of oral health profession in control of NCDs.

Abstract
The WHO Oral Health Programme has been re-enforced to take integrated approaches to disease prevention and health promotion which include tackling poverty, inequality, tobacco and alcohol. A focus on oral health in overall primary health care will not only help improve oral health itself, but will also reduce the rate of cardiovascular diseases, cancer, chronic respiratory diseases, and diabetes. It is acknowledged that a “common risk factor approach” is the most effective way to tackle oral health issues within the larger fight against NCDs, rather than trying to address oral health on its own. The need to incorporate programmes for promotion of oral health and prevention of oral diseases into programmes for the integrated prevention and treatment of chronic diseases should be encouraged.

Implementing FDI's policy on NCDs :
A view from the developing world
Fadil Elamin (Sudan)

Learning Objectives
- The FDI's Policy statement on NCDs;
- Implementing community oral health prevention programs;
- Practical challenges facing developing countries in implementing global strategies.

Abstract
Oral health shares many of the common risk factors to other NCDs. The UN recognizes the burden of oral disease on many
Control of NCD through oral health: Thailand experience
Supranee Dalodom (Thailand)

Learning Objectives
- To understand the situation and policy for NCDs in Thailand;
- To integrate management concepts in oral health for NCDs in Thailand with NCDs and oral health service system;
- To develop model development: Community approach model.

Abstract
NCDs are the world's biggest killers related to unhealthy lifestyles which are common risk factors. Effective care requires a multi-disciplinary approach in lifestyle modification. Control of NCDs through oral health in Thailand developed by integration with NCDs and OH service system, aiming at the same target as screening DM and HT in community at sub-district level. Guidelines and model development started in 40 provinces last year. Expected OH program in NCDs are: 1. Implementation to improve coverage and quality of care; 2. Development of proper guidelines in service system, esp. community approach; 3. Evidence data-based for evaluation; 4. Proposal to become a public policy.

Unraveling complex persistent pain conditions
William Maixner (USA)

Time: 09:30 - 12:00
Room: EH 106 A (Level 1)
Language: English
Chair: Kanokporn Bhalang
CERP: 2.5

Learning Objectives
- To become knowledgeable in current concepts associated with etiological pathways associated with common persistent pain conditions;
- To become knowledgeable in how to assess the biopsychosocial and molecular pathways that underlie heterogeneous common persistent pain conditions;
- To become knowledgeable of the emerging concepts and technologies that can be used to reduce "big data" into useful diagnostic tools and novel treatments.

Abstract
Common persistent pain conditions (CPPCs) are composed of aggregates of phenotypes (signs and symptoms) associated with peripheral and central nervous system dynamics, stress responsiveness and inflammatory states. Complex molecular networks underlie these heterogeneous phenotypes and these networks are shaped by intrinsic polygenetic factors and environmental events such as physical injury and psychological stressors. Dr. Maixner will discuss emerging concepts and knowledge of the contribution of genetic variants, including recent discoveries that emphasize a genetic contribution to human pain perception CPPCs. He will present findings from recently completed and ongoing (see www.opera.org) cross-sectional and prospective studies that examine the biopsychosocial and genetic factors contributing to the onset and maintenance of CPPCs. He will discuss emerging bioinformatic technologies that are proving useful in unravelling molecular networks that contribute to the clinical phenotypes observed in subpopulations of patients with persistent pain conditions. Finally, he will show how "big data" can be reduced to useful diagnostic tools and novel treatments for common persistent pain conditions.
Dental implant for the 21st Century
Chatchai Kunavisarut (Thailand)

Time : 09:30 - 10:30
Room : EH 106 B (Level 1)
Language : English
Chair : Kanit Dhanesuan
CERP : 1

Learning Objectives
- Understand essential principles for dental implant treatment;
- Acquire new technology to improve the treatment outcome;
- Integrate scientific evidence with daily practice.

Abstract
Modern dental implant treatment was first introduced by Prof. Branemark in 1982. Since then technology has been developed to facilitate the effective treatment outcome in implant dentistry, i.e., from smooth surface implant to moderately rough implant, from external connection to internal connection, and from conventional implant placement to immediate implant placement. Some concepts are no longer applicable nowadays. This presentation will lead the participants through the development of various implant concepts since the early 90's and show the evidence to challenge each concept. Also, new treatment concepts such as minimally invasive implant procedures, narrow diameter implants and short implants will also be reviewed. Various implant cases from single tooth replacement to full mouth rehabilitation will be shown and discussed.

Industry Lunch Symposium 12:00 - 14:00

Dental caries: Public health problem
Prathip Phantumvanit (Thailand)

Time : 12:00 - 14:00
Room : 202-203 (Level 2)
Language : English
CERP : 0

Learning Objectives
- Provide an overview of caries as a chronic public health issue outlining the epidemiology and the etiology of the disease;
- Share key public health initiatives that have been effective and impactful in reducing caries at a population level in Thailand and in the Asian region.
Abstract
Globally, dental caries is the most prevalent, non-communicable disease due to inequalities in oral health. This presentation will review health promotion programs in Asia where primary school children have fewer caries in permanent teeth because there is a strong emphasis on promoting oral health in schools; these children have higher caries rates in their primary dentition, which develop and progress faster, and most of them are untreated. In Thailand, a national campaign focused on effective tooth-brushing with fluoride toothpaste use in very young children as soon as the first tooth erupted (6 months of age) was conducted reviewing the control of sugar intake, early caries detection for early prevention and fluoride varnish applications during vaccinations for young children. A pre-school oral health package including preventive restorations was implemented in order to stop caries as early as possible.

An International system for caries classification and management
Nigel Pitts (United Kingdom)

Learning Objectives
Examine caries as a disease continuum, sharing a framework to evaluate caries risk, classification and diagnosis highlighting a new digital application to manage caries designed for the practicing dental professional.

Abstract
This presentation will provide an overview of the International Caries Classification and Management System (ICCMS™). It will examine caries as a disease continuum and share a framework to: a) evaluate Caries Risk at the patient-level, b) undertake caries Classification (staging and activity assessment), c) enable rational Decision Making (synthesis and diagnosis), leading to d) personalised Caries Management plans (comprising: caries prevention, control and Tooth Preserving Operative Care - TPOC). Global implementation activities will be outlined and new digital support tools will be described. The ICCMS™ is designed to help effectively manage caries in a dental clinic or practice in 2015.

Caries management beyond fluoride
Peter Santarpia (USA)

Learning Objectives
Review contemporary caries prevention approaches for the management of early caries providing an in-depth review of the role of fluoride with a focus on the new Pro-Argin™ plus Fluoride Technology and the clinical evidence for its effective home use.

Abstract
This presentation will provide an overview on the role of fluoride in the treatment of dental caries and its limitations in that it does not modulate plaque acid production, the key pathological factor in the initiation and continuation of the caries disease process. The development of a new dentifrice with Pro-Argin™ and fluoride will be reviewed, and study results will show that this dentifrice is clinically proven to provide superior caries protection beyond fluoride dentifrices. This new approach in managing caries offers benefits to both the dental professional and patient as the new standard of care in caries prevention.

Mid-day sessions 12:30 - 13:30

Meet-the-Expert
Endodontics
Kenneth Hargreaves (USA)

Time : 12:30 - 13:30
Room : 219 (Level 2)
Language : English
CERP : 1

Meet-the-Expert
Cost-effective periodontal care
Thomas Flemmig (Hong Kong SAR China)

Time : 12:30 - 13:30
Room : 223 (Level 2)
Language : English
CERP : 1
Afternoon Sessions 13:00 - 16:30

Women Dentists Worldwide Forum
Overall Facial Enhancement and Rejuvenation
Honorata Shaw (Poland)
Ivona Igerc (Croatia)
Maja Sabalic (United Kingdom)
Ivona Igerc (Croatia)
Maria Gabriella Grusovin (Italy)
Ivona Igerc (Croatia)

Time: 13:00 - 17:30
Room: MR 210 (Level 2)
Language: English
Chair: Vesna Barac-Furtninger
CERP: 0

Is beauty in the eyes or in the mind of the beholder?
Honorata Shaw (Poland)

Learning Objectives
- The idea of beauty;
- Cultural and geographical determinants of beauty;
- Today's value of beauty.

Abstract
The term of beauty is used in different domains of the environment. It can be applied to describe nature, in art and literature, but most frequently in the description of attractiveness. Beauty can be considered in several different ways: as a physical feature, in beauty of mind or character and is as difficult to define as “glamour”. There are many standards of beauty, all changing with time and fashion and influenced by culture, geography and even social background. In order to acquire this desirable feature a lot of time, effort and sometimes pain are required.

Regenerative medicine and injectables overview
(Botulin Toxins, Dermal Fillers, PDO Threads, PRP and Stem Cells)
Ivona Igerc (Croatia)

Learning Objectives
- What are injectables, classification of Dermal fillers and classification of Botulin toxins;
- Regenerative medicine and definition: what are PRP and stem cells;
- Implication of injectables, stem cells and PRP in overall facial rejuvenation and enhancement;
- Differences in injecting and enhancing Asian and Caucasian face.

Abstract
- Brief introduction into injectables: Dermal fillers, Botulin toxins and intradermal PDO threads for chemo-sculpting, face-lifting and facial rejuvenation;
- How to determine them in order to maximize the aesthetic results?
- What is regenerative medicine and what are its aesthetic implications, treatments classification in aesthetic medicine?
- Stem cells and growth factors and their key role in tissue regeneration;
- What is PRP and principle of its action?
- Stem cells – different categories of stem cells, how we use them, harvesting and implications. Why stem cells have a “negative public perception” and how to use stem cells in a safe way maximizing predictabilities and therapy results. Aesthetic approach in facial reshaping and recontouring of Asian and Caucasian faces;
- Differences and similarities in problem assessment.

Mesenchymal stem cells: Challenges and prospects in regenerative dentistry
Maja Sabalic (United Kingdom)

Learning Objectives
- Participants will gain insight in recent advancements in stem cell biology and their implication for use in dental clinics;
- Potential for therapeutic applications in different fields of dentistry as well as limitations of stem cells from different sources will be discussed;
- Additionally, update on whole-tooth regeneration will be given.
Abstract
Mesenchymal stem cells (MSCs) reside in complex micro-environments - niches within connective tissues of the body, including teeth. They are stored in these reservoirs until they are needed for tissue repair. Being easily accessible, multipotent and immunomodulatory, MSCs hold promise for cell-based clinical therapies. Understanding their in vivo properties through pre-clinical studies is essential for successful applications in tissue engineering therapies in humans. The session will discuss recent advancements in stem cell research and considerations for safe applications. Different approaches and considerations for hard and soft dental tissue regeneration will be discussed. Finally, progress in whole-tooth regeneration will be updated.

Facial reshaping and re-contouring - Asian and Caucasian faces
Ivona Igerc (Croatia)

Learning Objectives
- Indicate the different approaches to modeling Asian and Caucasian faces;
- Indicate differences in the perception of beauty.

Abstract
Asian and Caucasian faces are quite different in aesthetic assignment. There are anatomical differences, as well as ethical and cultural. What does beauty mean in Asian culture, what is beauty in Caucasian culture? Comparison between Indian, Chinese and European faces. PDO threads and thread lifts in Asians. What are PDO threads, what are they made of, what is their function and way of positioning? How to use it to enhance the face and get the perfect V-lift? Personal experiences with Asian patients.

The pink aesthetic of the smile: What we can do
Maria Gabriella Grusovin (Italy)

Learning Objectives
- Identify current strategy for best results;
- Understand which can be the best choice for our patient;
- Learn how to apply clinically minimal-invasive procedures.

Abstract

The smile is very important for relationships with people. Teeth and gums are determinant for a pleasant smile. The first issue is to obtain healthy dental and periodontal tissues, but gummy smiles, teeth and gum asymmetries, gingival color can affect both pink and white aesthetic. The presentation will address smile diagnosis and periodontal techniques to have a more pleasant smile, with or without surgical procedure. Clinical cases and videos will address different situations that are common in clinical practice and will help in conservative and prosthetic treatment.

Hyaluronic acid dermal fillers - Anatomical zones to avoid and complications management
Ivona Igerc (Croatia)

Learning Objectives
Successful application of hyaluronic fillers implies an absolute knowledge of and failure and complications that may occur. A skilled therapist must know the management practices of any complications.

Abstract
- What are dermal fillers, classification and history?
- How to determine them - facial enhancement and rejuvenation;
- Way of using them in order to achieve the ideal 3D facial rejuvenation;
- Hyaluronic dermal fillers and anatomical zones to avoid;
- Classification of the zones;
- Classification of complications and management.

Longevity of bonding and composite resin restorations
Daniel Chan (USA)

Time : 14:00 - 16:30
Room : EH 101 (Level 1)
Language : English
Chair : Siyin K. S. Q. Srisawasdi
CERP : 2.5

Learning Objectives
Upon the completion of this presentation, the dental profes-
sional will be able to: - Understand the longevity of bonding and composite resin restorations; - Understand the principle reasons for failure and how to prevent them; - Learn the latest technique and restorative materials to achieve predictable results.

Abstract

This presentation will start with a global survey on the longevity of bonding and composite resin restorations. It will focus on why it is important to understand the longevity of the procedures that we recommend to patients. Principle reasons for failure such as secondary caries, fracture, marginal deficiencies, wear and postoperative sensitivity will be identified and discussed. Clinical materials and techniques to prevent failure will be addressed. Other materials besides composite resin will be briefly discussed. Finally, the presentation will close with research focus at the University of Washington related to prolonging the longevity of composite restorations. We will introduce the concept of using metal-titanate as a novel inhibitor of cariogenic biofilms at the tooth-composite interface.

Academy of Osseointegration Symposium
Current complexities in implant dentistry
Takashi Sumi (Japan)
Terry Walton (Australia)
SunJong Kim (South Korea)

Time : 14:00 - 16:30
Room : GH 201 (Level 2)
Language : English
Chair : Terry Walton
CERP : 2.5

Application of patient-specific gingival-colored abutments by titanium anodization
Takashi Sumi (Japan)

Learning Objectives

Upon completion of this presentation, participants should be able to explain how the gingival-colored abutment surface achieved by the anodization technique could deliver good esthetics when replacing the anterior teeth in maxilla.

Abstract

Introduction: Use of a titanium abutment in the anterior/lateral region often compromises esthetics due to the grey color showing through the gingival tissues. As a solution to this disadvantage, the authors developed an anodization technique to give a warm gum-color to the surface of titanium abutments. Material: The abutment tested was Atlantis CAD/CAM Patient-Specific Abutment (Ti), which was first pickled with an aqueous solution of nitric hydrofluoric acid and then anodized to achieve the predefined gum-color on the surface. Results: The gum-colored abutment surface achieved by the anodization technique could deliver good esthetics when replacing the anterior teeth in the maxilla.

"Herodontics" — Can it be justified in this age of implant dentistry?

Terry Walton (Australia)

Learning Objectives

- The introduction of implant-dentistry has improved the outcome of tooth-supported restorations;
- A considered assessment of financial, functional, esthetic, comfort and emotional factors is required before teeth are extracted;
- “Heroic” procedures to save teeth should not be replaced by "heroic" procedures to enable adequate placement and functional loading of implants.

Abstract

Maintaining extensively structurally or periodontally compromised teeth involves ongoing maintenance, excellent patient compliance and high costs. There is an increasing sentiment that in this age of implant dentistry, patients should forgo these prolonged treatments—"Herodontics", and replace these teeth with long-lasting dental implants. However, the rush to replace natural teeth has sometimes led to "heroic" treatments to enable the placement of implants—"Herointegration". New procedures and techniques are being introduced without adequate long-term evaluation, relying rather on enthusiastic advocacy and commercial marketing. It is becoming increasingly realized that the long-term maintenance of implant-supported prostheses also requires ongoing maintenance, excellent patient compliance and potentially high costs.
Maxillary sinus augmentation: Complications and treatments
SunJong Kim (South Korea)

Learning Objectives
Upon completion of this presentation, participants should be able to understand various surgical devices for window opening. Establish optimal conservative and surgical management protocol.

Abstract
The posterior maxilla may present an additional obstruction to implant placement caused by pneumatization of the maxillary sinus. Some patients have limited remaining bone height in the posterior maxilla and it is not uncommon for the sinuses to pneumatize further after the extraction of the posterior teeth. The lateral window technique begins with a full-thickness mucoperiosteal flap to gain access to the lateral bony wall of the sinus. A window is made in the lateral wall, such as a diamond bur, Piezosurgery, LASER, SLA devices. During surgery, membrane perforation is one of the most frequent complications both crestal and lateral approaches. The management includes both conservative and surgical management for sinusitis. This presentation is aimed to understand safe window making technique for sinus augmentation and proper management in case of various surgical complications during sinus augmentation.

FDI Science Committee Forum
FDI Policy Statements – Transferring knowledge to enhance clinical practice and oral healthcare
Kenneth Anusavice (USA)
Gottfried Schmalz (Germany)
Michael Glick (USA)
David M. Williams (United Kingdom)
Daniel Meyer (USA)
Morten Rolstad (Norway)

Time: 14:00 - 16:30
Room: EH 104 B (Level 1)
Language: English
Chairs: Lijian Jin; Harry-Sam Selikowitz
CERP: 2.5

Learning Objectives
- To understand the current and emerging global issues in oral healthcare;
- To understand the scientific rationale of FDI Policy Statements-linked critical issues in oral healthcare;
- To appreciate the importance and approaches to integrating new knowledge and sustainable strategy in oral healthcare into actions in both professional and public communities.

Abstract
FDI is the major global organization for over one million oral health-care professionals (OHCP), aiming for ‘Leading the world to optimal oral health’. Over the years, FDI Policy Statements have timely addressed various issues in oral healthcare, and critically elaborated policies and professional guidelines for optimal oral and general health. These Statements are valuable to individual OHCP and member National Dental Associations for achieving the FDI mission (published in IDJ since 2013). The issues addressed in these Statements are conceivably important for daily practice, dental education, healthcare authorities, industrial development and oral health promotion for the public. This Session will highlight some of these critical issues and interactively address how to translate these Statements into actions for refining oral healthcare, enhancing the commitments of OHCPs and reshaping the future development of healthcare professionals worldwide.

Opening address
Tin Chun Wong (Hong Kong SAR China), FDI President

Dental materials in daily practice: Challenges and perspective
Kenneth Anusavice (USA)
Gottfried Schmalz (Germany)

Expended role of oral health-care professionals: Expectation and opportunity
Michael Glick (USA)
David M. Williams (United Kingdom)

FDI Policy Statements: Sharing good practices and implementation strategy
Daniel Meyer (USA)
Morten Rolstad (Norway)

General discussion
Modern Lifestyle, Diet and Oral Health
Prathip Phanthumvanit (Thailand)
Waranuch Ptitphet (Thailand)
Hideo Miyazaki (Japan)
Hiroshi Ogawa (Switzerland)

Time : 14:00 - 16:30
Room : EH 106 A (Level 1)
Language : English
Chair : Patita Bhuridej
CERP : 2.5

Dental caries/children
Prathip Phanthumvanit (Thailand)

Learning Objectives
- To compare the primary teeth caries situation in developed and developing countries;
- To understand the effective caries control in young children;
- To apply caries management for primary teeth through health promotion approach.

Abstract
Dental caries have well declined in developed countries due to more awareness in oral hygiene practice, proper use of fluoride and good dietary control. But in many developing countries, caries in primary teeth are still a public health problem with the modernized changes in dietary food and beverage. Health promotion, including early detection and caries risk assessment in young children, has to focus on oral health literacy for caries control which might have an effect on the health and development of children. Proper caries management through health promotion in modern lifestyles may reduce the burden of caries in primary teeth worldwide.

Impact of lifestyle on oral health in adults
Waranuch Ptitphet (Thailand)

Learning Objectives
- To describe lifestyle risk factors that are common for both oral and systemic diseases in adults;
- To discuss the impact of diet on oral health, in particular periodontal disease;
- To emphasize the role of dentists in patient behavior modification.

Abstract
Several lifestyle risk factors for general health conditions are common to those that affect oral health. Lack of exercise, obesity, stress, tobacco smoking and alcohol drinking are associated with increased risk for periodontitis in adults. Poor diet is implicated as a cause for major oral diseases such as dental caries, periodontal disease, dental erosion and oral cancers. On the other hand, a diet rich in whole grains, calcium, antioxidants and omega-3 fatty acids has been shown to reduce periodontitis risk. Lifestyle may be an essential factor linking oral and general health. Dental professionals therefore have an important role in advising their patients about how they can make choices that improve and maintain both their oral and general health.

Modern lifestyle, diet and oral health: Lifestyle factors and oral health in the elderly
Hideo Miyazaki (Japan)

Learning Objectives
- To describe the roles of lifestyle and diet on oral health in different age groups;
- To explain the associations between lifestyle factors, oral health and general health;
- To discuss about the WHO integrated approaches to disease prevention and health promotion.

Abstract
Elderly people with good appetites have satisfactory relationships with family and friends and much favorable general condition. Appetite and fewer teeth remaining (chewing difficulty) are associated with social factors and the overall health in terms of higher QOL. However, elderly people have risks for tooth loss in systemic health conditions, such as decreasing immunity, lack of micronutrients, low renal function and bone mineral density. On the other hand, low chewing ability influences to decrease ADL and cognitive function, depression and food insufficiency in elderly. Accordingly, tooth loss is a risk for physical and mental impairment, and also higher mortality.
Strategies for oral disease prevention and health promotion - WHO perspectives
Hiroshi Ogawa (Switzerland)

Learning Objectives
- Oral health is integral and essential to general health;
- Strategies and approaches in oral disease prevention and health promotion.

Abstract
WHO has re-enforced the need for integrated approaches to disease prevention and health promotion. A focus on oral health in overall primary health care will not only improve oral health itself, but will also reduce the rate of NCDs. A common (shared) risk factor approach is the most effective way to tackle oral health issues within the larger fight against NCDs, rather than trying to address oral health on its own. The oral health profession’s focus on NCDs also signals a major shift, reflecting the reality of its more medical role and its greater integration into the medical system.

New treatments to accelerate periodontal tissue regeneration
Shinya Murakami (Japan)

Time : 14:00 - 15:00
Room : EH 104 A (Level 1)
Language : English
Chair : Rangsiri Mahanonda
CERP : 1

Learning Objectives
- To understand the cellular and molecular mechanisms of periodontal tissue regeneration;
- To understand the emerging regenerative approaches for periodontal tissue regeneration;
- To understand the cellular and molecular bases of FGF-2-induced periodontal regeneration.

Abstract
Three key players such as "cells", "signal molecules" and "scaffold", are important in tissue regeneration. Applying these key players exogenously to the regenerative site is a current trend of regenerative medicine. However, we do not have an effective, simple and economical modality for bone augmentation. Here, I propose a new strategy of regenerative medicine: Encouraging endogenous key players rather than applying them exogenously. In other words, this is a strategy of encouraging healing potential of the body. I will present the animal experiments and my clinical cases regarding bone augmentation based on this new strategy.

Abstract
An ideal goal of periodontal therapy is to achieve the complete regeneration of periodontal tissue. Recent progress in periodontal biology has demonstrated that undifferentiated somatic tissue stem cells and progenitor cells exist within the periodontal ligament. Accordingly, improving or enhancing the biologic potential of these cells, can facilitate more effective periodontal tissue regeneration. As one of the emerging regenerative approaches for periodontal tissue regeneration, I review the potential of recombinant cytokines, particularly basic fibroblast growth factor (bFGF, FGF-2) to promote periodontal tissue regeneration and discuss the present status and future outlook of cytokine therapy.

New direction of regenerative medicine
Shohei Kasugai (Japan)

Time : 14:00 - 15:00
Room : EH 106 B (Level 1)
Language : English
Chair : Prasit Pavanant
CERP : 1

Learning Objectives
- Learn dental implant treatment and related bone augmentation techniques;
- Understand the tissue engineering concept;
- Learn healing potential of the body.

Abstract
Three key players such as "cells", "signal molecules" and "scaffold", are important in tissue regeneration. Applying these key players exogenously to the regenerative site is a current trend of regenerative medicine. However, we do not have an effective, simple and economical modality for bone augmentation. Here, I propose a new strategy of regenerative medicine: Encouraging endogenous key players rather than applying them exogenously. In other words, this is a strategy of encouraging healing potential of the body. I will present the animal experiments and my clinical cases regarding bone augmentation based on this new strategy.
**Communication is everything!**

Rhonda Savage (USA)

**Time:** 15:30 - 16:30  
**Room:** EH 104 A (Level 1)  
**Language:** English  
**Chair:** Rangsinh Mahanonda  
**CERP:** 1

**Learning Objectives**
- The key elements to effective communication;  
- Effective, dynamic, informative team meetings;  
- Performance reviews;  
- Daily coaching;  
- Accountability;  
- Patient education and verbal skills.

**Abstract**

This lively session outlines what Dr. Rhonda Savage, CEO of Miles Global, finds as a common thread among their top clients who have the finest care along with a happy, productive work environment. But most of all, that also have a healthy bottom line! Implementation of technology, communication skills and customer service takes:

T : Time to Train and Teach;  
E : Clearly defined expectations;  
A : Accountability: Making change ‘stick’;  
M : Motivation: When morale goes up, the practice goes up! Ideal for the dentist and the entire team!

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**Some new developments in bone biology**

Vincent Everts (Netherlands)

**Time:** 15:30 - 16:30  
**Room:** EH 106 B (Level 1)  
**Language:** English  
**Chair:** Prasit Pavasant  
**CERP:** 1

**Learning Objectives**
- Update knowledge of bone cells;  
- Bone-site specific bone cells;  
- Interaction between bone cells and their surroundings.

**Abstract**

Some years ago it was shown that osteoclasts from different types of bone differ considerably with respect to the way they resorb bone. Some findings even suggest that each type of bone has its own subset of osteoclasts. Such a diversity does not only count for the osteoclasts but ample data indicate considerable bone-site specific differences among the osteocytes and the osteoblasts. These new findings may imply that each bone has its own unique cellular machinery to cope with site specific demands. In the near future we hopefully are able to provide answers to this intriguing option. During the presentation I will give an overview of recent developments in bone biology and the possible implications of bone-site specific differences.
### Level 1 (Ground)

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<td>09:30-10:30</td>
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<td>Vital teeth restorations: When ceramic and adhesive dentistry leads to biomimetics</td>
<td>Antimicrobial killing by light from laser and non laser sources, Laboratory results and clinical data</td>
<td>Atraumatic restorative treatment - In private practice and public oral health centre</td>
<td>Hot topic session Dental office management</td>
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<td>10:30-11:00</td>
<td>Is the mandibular block passé? Stanley F. Malamed</td>
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<td>11:00-12:00</td>
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<td>Esthetic and minimal invasive anterior tooth replacement revisited Matthias Kern</td>
<td>Bioethical aspects of care in community oral health Sudeshna Naidoo</td>
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<td>14:00-15:00</td>
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<td>Minimum intervention in operative dentistry Martin Tyas</td>
<td>Life-threatening oro-facial pains and TMD Marcelo Kreiner</td>
<td>Symposium on Digital dentistry Ibrahim Nassar Rhonda Savage</td>
<td>Leakage-free bonding interface Nobuo Nakabayashi</td>
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<td>15:30-16:30</td>
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<td>Adhesive materials for minimum intervention Martin Tyas</td>
<td>Functional aesthetics: A marriage of form and function Neeraj Khanna</td>
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### Level 2

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<td>09:30-10:30</td>
<td>New trends in pediatric dentistry Luis Karakowsky</td>
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<td>10:30-11:00</td>
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<td>11:00-12:00</td>
<td>How to make the best tooth preparations Timothy Watson</td>
<td>World Oral Health Forum Universal Health Coverage (UHC); Towards optimal oral health Michael Blick David M. Williams Manu Mathur</td>
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<td>14:00-15:00</td>
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<td>Hands-on workshop Microscope and ultrasonic in endodontics Pairoj Limsuwanont Chootima Ratboonsiont Anchanra Panichkutti Norachai Wongkornchaowalit</td>
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*24 September 2015*
THURSDAY 24 SEPTEMBER

Morning sessions 09:30 - 12:00

World oral health forum
Universal Health Coverage (UHC); Towards optimal oral health
Michael Glick (USA)
David M. Williams (United Kingdom)
Manu Mathur (India)

Time : 09:30 - 12:00
Room : 202-203 (Level 2)
Language : English
Chair : David M. Williams
CERP : 0

Moving towards universal coverage requires a strong, efficient health system that can deliver quality services on a broad range of country health priorities. Universal Health Coverage (UHC) offers a way of sustaining gains from and protecting investments for the current set of health goals of a country. Oral diseases pose unique challenges to the realization of UHC. For the post 2015 development agenda goals to be achieved, oral health must be recognized as a priority and UHC articulated as a means to achieve improved health outcomes. This talk will highlight the efforts made by the emerging economies and low- and middle-income countries of the world to achieve UHC and a roadmap which could be used to integrate oral health in the UHC agenda in these countries.

What do we mean by optimal oral health?
Michael Glick (USA)

Abstract
Being able to deliver a succinct health message is essential when communicating with policymakers, health care professionals, patients and many other stakeholders. Such a message needs to be unambiguous and should be framed in such a manner that it can be incorporated in all health policies. A starting point

for dentistry is the recognition that a condition of optimal oral health may differ from one patient to the next if we apply only traditional oral health indicators. This presentation will attempt to construct a statement for optimal oral health that can be agreed upon by all oral health care providers.

UHC and how oral health fit into it
David M. Williams (United Kingdom)

Abstract
The concept of Universal Health Coverage (UHC) has gained increasing attention since the first related WHO resolution in 2005. WHO defines UHC as a system in which ‘all people have access to services and do not suffer financial hardship paying for them’. The goal of UHC is thus to guarantee access to healthcare for all and to provide financial protection. Countries across the world include dental services with varying levels of coverage, depending on their economic resources and political priorities. Most high-income countries are implementing reforms to contain costs, particularly by increasing co-payment for services deemed non-essential, such as eye and dental care. This talk will address how the incorporation of oral healthcare into UHC is a means of achieving optimal oral health.

UHC in emerging economies: Roadmap to achieve optimal oral health
Manu Mathur (India)

Abstract
Moving towards universal coverage requires a strong, efficient health system that can deliver quality services on a broad range of country health priorities. Universal Health Coverage offers a way of sustaining gains from and protecting investments for the current set of health goals of a country. Oral diseases pose unique challenges to the realization of UHC. For realizing the post-2015 development agenda oral health must be recognized as a priority and UHC articulated as a means to achieve improved health outcomes. This talk will highlight the efforts made by the emerging economies and low- and middle-income countries of the world to achieve UHC and a roadmap which could be used to integrate oral health in the UHC agenda in these LMICs.
Is the mandibular block passé?
Stanley F. Malamed (USA)

Time : 09:30 - 12:00
Room : EH 101 (Level 1)
Language : English
Chair : Piranit Kantaputra
CERP : 2.5

Learning Objectives
- Name 3 alternative techniques to the traditional inferior dental block;
- Describe the efficacy of articaine HCl when administered by mandibular infiltration in adults;
- Describe the efficacy of buffered lidocaine HCl compared with traditional lidocaine in mandibular anesthesia.

Abstract
The "mandibular nerve block" has the lowest success rate of major nerve blocks administered in the human body. Newer techniques, such as the Gow-Gates mandibular nerve block; the Akinosi-Vaziri closed mouth mandibular nerve block; Intracoronal anesthesia; and the Periodontal ligament injection have been developed in an effort to improve success in this area. Additionally, articaine HCl has been demonstrated to have significant success administered by mandibular infiltration in adults; as well as the newly introduced buffered lidocaine. So, is the mandibular block passé?

Symposium
Atraumatic restorative treatment - In private practice and public oral health centre
Jo Frencken (Netherlands)
Soraya Leal (Brazil)

Time : 09:30 - 12:00
Room : EH 106 B (Level 1)
Language : English
Chair : Jo Frencken
CERP : 2.5

The currency of the 21st century
Rhonda Savage (USA)

Learning Objectives
- Training your team to set the stage for case acceptance with your technology shortsening the Sales Cycle: Implementing a successful business method into your dental practice;
- Decreasing your dental patients' confusion: The last 30 seconds and the "pass-off".
Abstract

Technology can teach your patients and your team something new. The information will then be memorable, especially when your team communicates in a way that touches the patient's heart. If you can combine the use of technology and have a meaningful conversation with your patient, your patient will remember your message and act on it.

Lean management in dentistry and measurement of improvement
Alexander Tolmeijer (Netherlands)

Learning Objectives
- Strengthening your practice by involving your employees in continuous improvement;
- The use of key performance indicators to keep the practice on track.

Abstract

Together Each Achieves More is a great acronym for a true team. We can learn a lot from industry how to energize the team and constantly sharpen the instruments we use. Simple but well thought through instruments can have an enormous quality and financial impact on your practice. Learn management is a proven approach for improving business and healthcare.

Ingredient of a successful dental practice
William Cheung (Hong Kong SAR China)

Learning Objectives
- There are many challenges in building a successful private dental practice today. After the presentation, the participants will be able to:
  - Understand the ingredients in building a successful dental practice;
  - Meet the challenges of running a modern private dental practice in terms of good clinical skills, proper infection control protocol, and outstanding service to patients. Staff U - the CEO Clinical skill Communication Equipment Sterilization Service.

Abstract

Building a dental practice today can be very challenging for a number of reasons. These include the higher level of education among our patient population leading to higher expectations, the availability of more sophisticated but expensive equipment and instruments as well as the vast amount of new knowledge discovered on a daily basis. I will begin this presentation by first defining what it means to be "successful" in private practice. The main objective is to present and discuss the ingredients important to achieve success in relation to clinical skill, infection control and patient service.

New trends in pediatric dentistry
Luis Karakowsky (Mexico)

Time : 09:30 - 10:30
Room : GH 201 (Level 2)
Language : English
Chair : Siruk Nakornchai

Learning Objectives
- Learn new materials for the pediatric dentist;
- Recognize new trends in the conservative approach for the occlusal surface in permanent molars;
- Understand the evolution in dental materials for pulpotomy and pulpectomy in primary teeth.

Abstract

Pediatric dentistry has evolved in recent years from being mostly therapeutic to more preventive and conservative and this has been possible because of a new generation of dental materials and technologies that will be discussed and analyzed.
Vital teeth restorations: When ceramic and adhesive dentistry leads to biomimetics
Olivier Etienne (France)

Time: 09:30 - 10:30
Room: EH 104 A (Level 1)
Language: English
Chair: Watcharaporn Kuphasuk
CERP: 1

Learning Objectives
This lecture will give clinical steps and scientific evidences to ensure the aesthetic and functional success of indirect ceramic bonded restorations.

Abstract
Constant improvements in bonding to dental tissue, together with recent advances in ceramic materials, have made it possible to develop esthetic dentistry. This adhesive revolution has quickly integrated the concept of tissue conservation by providing new types of preparations, combinations of traditional techniques and new concepts related to bonding. Thus, the practitioner always has to find the best compromise between sufficient thickness, to achieve both strength and esthetics, and maximum conservation of the enamel. Whenever clinically possible, it is recommended to choose a minimally-invasive preparation that will enhance the longevity of the restoration and prevent post-operative sensitivity.

Antimicrobial killing by light from laser and non-laser sources: Laboratory results and clinical data
Sigrun Eick (Switzerland)

Time: 09:30 - 10:30
Room: EH 104 B (Level 1)
Language: English
Chair: Waranun Buajjub
CERP: 1

Learning Objectives
- Bacteria within dental biofilms and their susceptibilities to antimicrobial agents and procedures;
- Different systems of killing by light and results from laboratory;
- Possible application in dental practice.

Abstract
In the oral cavity bacteria are most organized in biofilms. Biofilms are closed, nutrient-sufficient ecosystems with limited susceptibilities to antimicrobial agents and procedures. As a new approach killing by light is more and more discussed. Several in-vitro studies demonstrate the antimicrobial activity of lasers and of systems using an activation of photosensitive agents. A possible application of killing by light in periodontal, peri-implant and endodontic infections is underlined by different models in laboratory. Finally, a few clinical studies showed the equality of killing by light to traditionally used antimicrobials.

How to make the best tooth preparations
Timothy Watson (United Kingdom)

Time: 11:00 - 12:00
Room: GH 201 (Level 2)
Language: English
Chair: Sirinuk Nakonchali
CERP: 1

Learning Objectives
- Understand the complexities of tooth structure and cutting mechanisms;
- Understand how new techniques can improve the bond and seal between restorations and tooth tissue;
- Appreciate how new preparation techniques may enable changes in the way we can repair teeth and restorations.

Abstract
This talk will look at what happens when we cut or prepare dental tissues for restoration and the effects of this on our restoration outcomes. It will concentrate on how to achieve the best possible restoration margins with maximum conservation of tooth tissue. It will also look at methods for repairing and maintaining restorations, rather than their replacement.
Learning Objectives
To provide:
- An overview of community oral health from an ethical perspective including the importance of equity, human rights and social justice in providing oral health care to the underserved;
- Holistic approaches to ethical and social responsibility in new dental graduates;
- Strategies, using the overarching principles of ethics and bioethics that are applicable to practice among vulnerable populations.

Abstract
Global patterns of oral diseases still continue to reflect widespread inequality in the access to prevention and dental care. The oral health status of certain populations highlights differences in the availability, accessibility and acceptability of oral health care. In this context, bioethics can be used as a tool for the discussion, improvement and consolidation of citizenship, human rights and social justice. The purpose of this presentation is to reflect on public primary oral health care to communities from a bioethical standpoint. It will cover issues of professional responsibility, ethical standards and barriers and challenges of maintaining standards in practice.

Industry Lunch Symposium 12:30 – 13:30

GSK Symposium – Going beyond sensivity relief
A novel measure provides new insights into the impact of dentine hypersensitivity on daily life and the benefits of treatment
Charles Parkinson (United Kingdom)
Katrin Bekes (Austria)
Farzana Sufi (United Kingdom)
Dentine hypersensitivity — The global, local and individual impact
Charles Parkinson (United Kingdom)

Learning Objectives
- Understand the prevalence of dentine hypersensitivity;
- Gain insight into national and regional perceptions of dentine hypersensitivity;
- How the impact of dentine hypersensitivity may influence considerations for its day-to-day management.

Abstract
A chronic condition is defined by the WHO as "requiring ongoing management over a period of years or decades". With most dentine hypersensitivity patients presenting with symptoms over a number of years, this session will consider the global prevalence and will briefly review the perception of dentine hypersensitivity, its management and the impact on patients’ day-to-day lives.

New perspectives on the sufferer behind the sensitivity
Katrin Bekes (Austria)

Learning Objectives
- Understand methods for measuring oral health-related quality of life;
- Learn how the dentine hypersensitivity experience questionnaire (DHEQ) can be used to measure the day-to-day impact of dentine hypersensitivity;
- Gain understanding into the everyday impact of dentine hypersensitivity.

Abstract
Oral health-related quality of life is a relatively new but rapidly growing concept in dentistry. It is an aspect of dental health addressing the patient’s perception of whether their current oral health status has an impact upon their quality of life. This presentation will review methods for measuring quality of life in dentistry, consider their construct, uses and limitations and will introduce the concept of a dentine hypersensitivity condition specific measure (Dentine Hypersensitivity Experience Questionnaire).

Lasting changes for your patients — the DHEQ demonstrates real-life benefits of daily treatment with a sensitivity product such as Sensodyne
Farzana Sufi (United Kingdom)

Learning Objectives
- Explore the behaviours of dentine hypersensitivity sufferers and findings revealed by the DHEQ;
- Understand the need for a long-term management approach for dentine hypersensitivity sufferers;
- Review data on how desensitising treatments such as Sensodyne can help provide relief and improvements in the day-to-day impact of dentine hypersensitivity.

Abstract
Sensitivity sufferers are known to move in and out of using sensitivity toothpaste as their symptoms come and go. This can result in patients not obtaining the sustained relief they need, as dentine hypersensitivity requires a long-term management approach. This presentation considers this cycle of lapsing management and how Sensodyne goes beyond sensitivity relief to demonstrate reductions in the day-to-day impact of dentine hypersensitivity alongside clinically proven relief from sensitivity.

Mid-day sessions 12:30 - 13:30

Meet-the-Expert
Prosthodontics
Tony Daher (USA)

Meet-the-Expert
TMD
Marcelo Kreiner (Uruguay)
Contribution of the dentist in detection of systemic diseases
Ibrahim Nasseh (Lebanon)

Learning Objectives
- Recognize normal anatomy on radiographic images;
- Recognize patterns on radiographic changes on radiographic images;
- The dentist should play a role in recognizing systemic problems and referring patients.

Abstract
Oral radiographic manifestations of various systemic diseases can be the first indication of a systemic condition. Some of these findings are subtle enough to be easily missed, some are more obvious, but in all cases, deep knowledge of variation of anatomy and pattern of radiographic changes is essential to initiate referral and further evaluation by specialized physicians. In this presentation, we will help recognize anatomy of both normal and disease changes on radiographic images with examples where initial maxillofacial radiographic findings suggest the presence of general, sometimes life-threatening, diseases.

Technology: The currency of the 21st century
Rhonda Savage (USA)

Learning Objectives
- Training your team to set the stage for case acceptance with your technology;
- Shortening the Sales Cycle: Implementing a successful business method into your dental practice;
- Decreasing your dental patients’ confusion: The last 30 seconds and the “pass-off”.

Abstract
Technology can teach your patients and your team something new. The information will then be memorable, especially when your team communicates in a way that touches the patient's heart. If you can combine the use of technology and having a meaningful conversation with your patient, your patient will remember your message and act on it.

Symposium on digital dentistry
Ibrahim Nasseh (Lebanon)
Rhonda Savage (USA)

Time: 14:00 - 16:30
Room: EH 106 A (Level 1)
Language: English
Chair: Sally Hewett
CERP: 2.5
Learning Objectives
At the conclusion of the lecture, attendees will:
- Understand the philosophy of minimum intervention (MI) in operative dentistry;
- Appreciate the elements of MI;
- Be able to apply the principles of MI in the clinical setting.

Abstract
This lecture will describe the elements of minimum intervention (MI) in operative dentistry. A brief introduction to individualised caries risk assessment will be given, but the lecture will focus on MI techniques and clinical results of enamel resin infiltration, management of the deep caries lesion, 'internal' and 'tunnel' preparations and repair of defective restorations.

Life-threatening orofacial pains and TMD
Marcelo Kreiner (Uruguay)

Learning Objectives
- To learn about potential life-threatening diseases that mimic temporomandibular disorders (TMD) and other orofacial pains;
- To give the keys for early and accurate diagnosis.

Abstract
Several life-threatening diseases can mimic orofacial pain and TMDs. For example, it was shown that 8% of myocardial infarctions can present with pain in the face as the only symptom. Misdiagnosis can lead to the patient's death. In fact, it was shown that patients with myocardial infarction presenting without chest pain are often misdiagnosed and run up to eight times greater risk of death. Furthermore, several tumours can mimic a TMD and a clinician's awareness is crucial for diagnosis. This session will
review these kinds of clinical challenges, providing the clinician
with the appropriate tools for diagnosis.

Leakage-free bonding interface
Nobuo Nakabayashi (Japan)

Time : 14:00 - 15:00
Room : EH 105 B (Level 1)
Language : English
Chair : Marakot Pienjai
CERP : 1

Learning Objectives
- To deliver how to make reliable microleakage-free restoration
to patients based on scientific evidence.

Abstract
We know dental treatment on dentin is much weaker than those
on enamel. Why? We have to learn more about their difference.
Dental schools have to educate students about their difference
and mechanism of their wound healing, as they could not heal
when clinicians cut caries as they do not have wound healing
process. But dental schools teach them restorative materials are
weak and they have to apply stronger dental materials. Enamel
and dentin are weaker in acidic oral environment than dental
materials as basic hydroxypatite is degraded much faster than
dental materials. Clinicians eager to have stronger restorative
materials as they detach rather fast when they cemented them
by zinc-phosphate luting cemt. I was employed to develop stron-
erg restorative materials to have better clinical results. But I had
to change the research target to develop good adhesives to
connect tissues and restoration. It was also hard research, as
there were not so many studies done. Then, I tried to prepare
effective methacrylates which could bond tooth structure and
restoration. Finally, I could find hybridized dentin worked well to
make bonding of restoration to tooth substrates and micro-
leakage-free. It was believed that it must be hard to provide mi-
croleakage-free restoration, as they have not studied mechanism
of microleakage. And I found microleakage has taken place
through demineralized dentin and it is inhibited by introducing
impermeable hybridized dentin. Hypersensitivity is also healed
by the impermeable hybridized dentin.

Teeth with periodontitis – Treat or extract
Thomas Flemming (Hong Kong SAR China)

Time : 15:30 - 16:30
Room : GH 201 (Level 2)
Language : English
Chair : Pussadee Yotnuengnit
CERP : 1

Learning Objectives
- Assessment prognosis of teeth with periodontitis;
- Assess prognosis of alternative treatments;
- Clinical decision-making.

Abstract
In treatment planning, dentists are often faced with the question
whether it would benefit the patient more if teeth with moderate
to severe periodontitis are retained by means of periodontal
therapy or extracted and replaced with dental prostheses. A
quantitative approach using estimated outcomes of alternative
treatments, as an aid for clinical decision-making will be presented
and demonstrated on selected clinical examples. Furthermore,
ethe economic aspects from the perspectives of patients and
providers will be elucidated.

Adhesive materials for minimum intervention
Martin Tyas (Australia)

Time : 15:30 - 16:30
Room : EH 104 A (Level 1)
Language : English
Chair : Rangsima Sakoolnamarka
CERP : 1

Learning Objectives
At the conclusion of the lecture, attendees will:
- Understand the importance of adhesive materials in minimum
intervention (MI) in operative dentistry;
- Understand the clinical relevance of the setting and properties
of glass-ionomer cements;
- Understand the mode of action and clinical performance of enamel and dentine adhesives.

Abstract

Adhesive dental materials play a critical role in the application of minimum intervention (MI) in operative dentistry, by facilitating the ability to prepare ‘adhesive’ cavities. This lecture will focus on the properties, modes of adhesion and clinical performance of glass-ionomer cements and enamel/dentine adhesives.

Functional aesthetics: A marriage of form and function
Neeraj Khanna (USA)

Time : 15:30 - 16:30
Room : EH 104 B (Level 1)
Language : English
Chair : Phenomporn Vanichanont
CERP : 1

Learning Objectives
- Understanding the relationship of the patient’s function and their aesthetics;
- Understanding the envelope of function and how it relates to aesthetics;
- Understanding the four points to “complete dentistry”;
- Learn to predict treatment, plan aesthetics using digital photography and diagnostic records.

Abstract

The fundamentals of occlusion are directly related to function. Form does follow function. The understanding of how the masticatory system functions in relation to the dentition allows the dentist to provide treatment that is predictable, natural, and long lasting. One of the goals of a perfected occlusion is to have equal intensity contacts on all teeth while the joints (TMJ) are seated in centric relation. In addition, the anterior teeth also play an important role in establishing correct occlusion, and envelope of function. When anterior teeth are restored, the patient’s envelope of function must be correctly restored to achieve natural movements of the mandible. The lecture will provide information with illustrations on how functional occlusion allows dentists to practice and deliver aesthetic results that are predictable, natural, and long lasting.

Hands-on workshop – Microscope and ultrasonic
in endodontics
Patroj Linsuwanont (Thailand)
Chootima Ratiosoontorn (Thailand)
Anchana Panichuttra (Thailand)
Norachai Wongkornchaowalit (Thailand)

Time : 09:30 - 16:30
Room : MR 210 (Level 2)
Language : English

Learning Objectives
- Review the scientific basis of dental operating microscope and ultrasonics;
- Experience the power of the dental operating microscope to improve visibility and performance in endodontic procedures;
- Learn how to use dental operating microscope and ultrasonic instruments to locate the MBII canal in the maxillary first molar and remove separated instrument and fiber post in root canal.

Abstract

Development of techniques and equipment in endodontics has significantly moved forward in the past decade. Two important pieces of equipment that clearly improve effectiveness of endodontic procedures are the microscope and ultrasonics. The microscope provides 3 main benefits to endodontic procedures: magnification, illumination and documentation. The use of ultrasonic instruments enhances the quality of treatment including gaining access to canal openings and removal of intracanal materials and obstructions. The participants will experience a combination of microscope and ultrasonic exercises to locate the MBII canal, remove separated instrument and fiber post.
Global Annual Report on the Alliance for a Cavity-Free Future and Examination of the Role of Sugar in Caries Prevention and Management

THURSDAY 24 SEPTEMBER

Chair
Nigel Pitts (United Kingdom)

Speakers
Nigel Pitts (United Kingdom)
Paula Moynihan (United Kingdom)
Prathip Phanthumvanit (Thailand)

The Alliance for a Cavity-Free Future (the Alliance) is a worldwide group of experts who have joined together to promote integrated clinical and public health action to stop caries initiation and progression and collectively move towards a Cavity-Free Future for all age groups. Since the global Alliance’s launch in 2010, the group has worked to encourage collaborative action and challenge global leaders and other regional and local stakeholders to learn about the importance of caries as a disease continuum, stressing the importance of prevention and early reversal of initial caries lesions. This year’s Global Alliance Summit will include a report on the recent Alliance activities, the launch of the Thailand Alliance Chapter and a presentation from Prof. Paula Moynihan, Director, WHO Collaborating Centre for Nutrition and Oral Health in Newcastle University, followed by an interactive panel conversation on the role of sugar consumption in caries prevention and management. Attendees will participate in an active discussion on the recent sugar consumption guidelines put forth by the World Health Organization and how these guidelines can positively influence the continuing problem of caries in the context of general health.

After the meeting, participants will be able to understand:

- The role of sugar consumption on dental caries prevention and management
- The World Health Organization’s (WHO) recently updated global, evidence-informed recommendations on sugar consumption and how the guidelines can positively influence the continuing problem of caries, as well as obesity.

Programme

- Global Annual Report on the Alliance for a Cavity-Free Future and Examination of the Role of Sugar in Caries Prevention and Management - Nigel Pitts
- Key note address: Nutrition and Oral Health - Paula Moynihan
  Update:
  - World Health Organization (WHO) guidelines on sugar consumption
  - Impact of sugar consumption on caries prevention and management.
- Official launch of ACFF Chapter-Thailand - Prathip Phanthumvanit
  - About the Thailand Chapter
  - Signing of the declaration
- Learning session: Update on the next generation of caries control tools - Stefania Martignon
  - ICCMS™ developing a global System for Practitioners and Educators
  - ICCMS™ e-learning and ICCMS™ App for General Practice
FDI World Dental Federation
LEADING THE WORLD TO OPTIMAL ORAL HEALTH

The global voice for oral health – present in over 150 countries through some 200 member national dental associations and other specialist groups – representing at international level the interests of over one million dentists worldwide - in official liaison with the World Health Organization and the United Nations.

LEADERSHIP IN ORAL HEALTH
The worldwide organisation for leaders and decision makers in oral health.

OPTIMAL ORAL HEALTH
Influences decision-making and practice for the prevention, diagnosis and treatment of oral disease.

THE VOICE OF DENTISTRY
The worldwide, authoritative and independent voice of the dental profession.

EDUCATION AND INFORMATION
Advances and promotes the ethics, art, science and practice of dentistry.

56th EXCiDA in conjunction with FDI Persian Regional Congress
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### Level 1 (Ground)

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<thead>
<tr>
<th>Time</th>
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<th>EH 104 A</th>
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<tr>
<td>09:30-10:30</td>
<td></td>
<td>Strategies for oral health research collaboration Sudeshni Naidoo</td>
<td>Future orthodontics: I got an App for that! Somchai Manopatanakul</td>
<td>Hot topic session Direct restorative materials Timothy Watson Georg B. Meyer Daniel Meyer Gottfried Schmalz Daniel Chan</td>
<td>Complications in oral surgery Catioi Marzolo Ceulullo</td>
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<td>10:30-11:00</td>
<td>Coffee Break</td>
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<td>11:00-12:00</td>
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<td>Drug-induced oral complications Sarah County</td>
<td>Marginal bone stability around single implants and micro movements Antoine Berberi</td>
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<td>12:00-14:00</td>
<td>Lunch Break</td>
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<td>12:30-13:30 GSK Symposium Gum health Francesco D'aleo Stephen Meehan</td>
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<td>14:00-15:00</td>
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<td>FDI - ISO/TC106 joint session ISO International Standards for product safety and quality in dentistry Kenneth Anusavice Pam Clark Philippe Calio Claudia Fernandez Adrik S. Wongsa</td>
<td>Biocompatibility of dental materials Yiming Li</td>
<td>Aesthetic risk factors for anterior implant restorations Atilla Senigo</td>
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### Level 2

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<tr>
<td>09:30-10:30</td>
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<td>The aesthetic zone: Understanding the boundaries for predictable success Neeraj Khanna</td>
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<td>11:00-12:00</td>
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<td>Endodontics: Mission possible Jeeraphat Jantarai</td>
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<td>12:30-13:30</td>
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<td>Meet-the-Expert Aesthetic Dentistry: Putting it all together-implementation, communication with your patients, specialists, and lab technicians Neeraj Khanna</td>
<td>12:30-13:30 Meet-the-Expert Implantology Antoine Berberi</td>
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<td>14:00-15:00</td>
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<td>Symposium on promoting self-care through evidence Part 1 Hiroshi Ogawa Domenick Zero Suchit Poolthong</td>
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*25 September 2015*
FRIDAY 25 SEPTEMBER

Morning sessions 09:30 - 12:00

Hot topic session
Direct restorative materials
Timothy Watson (United Kingdom)
Georg B. Meyer (Germany)
Daniel Meyer (USA)
Gottfried Schmalz (Germany)
Daniel Chan (USA)

Learning Objectives
- Understand the complexities of the structure and dynamic aspects of the carious lesion in dentin, before and after restoration;
- Understand how materials can be handled to optimise the bond and seal between restorations and carious tissue;
- Appreciate how new materials may enable changes in the way we manage the deep carious cavity.

Abstract
Most research on adhesives and operate dentistry ignores the interaction of these materials with the carious lesion. This lecture will challenge how much carious tissue should be removed and also how best to manage the deep cavity, optimising bonding to the compromised tissues. It will indicate how materials may modify carious tissues by encouraging remineralisation. It will show clinical trial data and radiographic (cone beam CT) evidence for the endodontic response to dental cements and composites used in the management of deep carious cavities in symptomatic teeth. Finally, it will discuss the ethical and medico-legal issues surrounding conservative caries management.

Biological and medical properties of new and traditional filling materials - A critical evaluation
Georg B. Meyer (Germany)

Learning Objectives
- Besides a "technical responsibility" in restorative procedures our profession should be aware of a "biological and medical responsibility" for patients when recommending different filling materials.

Abstract
Discussions about biological and environmental risks of dental filling materials are mainly related to amalgam due to its content of mercury, whereas composites seem to be per se "the good ones". However, new research shows that there may be biological risk factors by inserting composite materials especially due to organic chemistry compounds. In a controlled clinical study Bisphenol A and similar compounds in human saliva and urine were associated with the placement of composite restorations. Another study concludes that the use of these materials should be minimized during pregnancy and for sealants in children whenever possible. Against this background amalgam should not be banned at this time.

Understanding the Minamata Convention and Dental Restoratives
Daniel Meyer (USA)

Learning Objectives
- Understand the Minamata Convention and its implications for dental restorative materials;
- Understand the patient safety and environmental issues related to dental restorative materials;
- Recognize how the Minamata may affect your clinical practice now and in the future.

Abstract
The recently adopted United Nations Environmental Programme Treaty on Mercury, known as the Minamata Convention, aims to protect human health and the environment from the adverse effects of mercury. The Treaty goes beyond a simple recommendation to phase down the use of dental amalgam by substituting
alternative dental restorative materials. The treaty provisions are intended to improve oral health promotion, disease prevention, dental materials research, and best management practices to minimize environmental mercury waste. Practical information is presented to understand the implications for providing optimal oral health care and complying with the provisions of the Minamata Convention.

From pulp to environment: The biology of restorative materials
Gottfried Schmalz (Germany)

Learning Objectives
- Restorative materials release substances;
- How to prevent pulp reactions from dental materials;
- Do nanoparticles in restorative materials cause any harm?
- Are dental materials a burden for the environment?

Abstract
Dental materials release substances, which may elicit adverse reactions. For the pulp, in deep cavities/pulp exposure resins cause pulp inflammation and prevent tertiary dentin formation; in contrast to calcium/hydroxide preparations or (modified) tricalcium silicate cements. Nanoparticles (1 and 100 nm) in restorative materials are not intended to be released but tightly bound. Polishing and grinding should be done under water spray. Because of environmental concerns for mercury in amalgam, in the Minamata Convention (2013) a phase down of amalgam use without time limit was included. For composite resin materials (Bisphenol A), data are too sparse to make any valid conclusion.

Nanotechnology in Dentistry - a Review of Filler Development & Antibacterial Applications
Daniel Chan (USA)

Learning Objectives
- understand the benefits and characteristics of nanotechnology in dentistry;
- discuss the progress of filler development;
- understand the antibacterial applications in restorative techniques;
- recognize the shortcoming of antibacterial applications;
- understand the benefits and characteristics of a novel gold-titanate nanoparticles.

Abstract
An understanding of the contribution of nanotechnology to the development of contemporary composites is essential to the general dentist focused on esthetic procedures. Nanotechnology was first described by Nobel Prize physicist Richard P. Feynman in 1959. It has been applied to dental materials since the 1990s. In this presentation, we briefly discuss the progress of filler development in composite materials towards the goal of better physical and esthetic properties. We also overview various antibacterial strategies using current nanotechnology to combat recurrent caries. The major focus is on a novel material, gold-titanate nanoparticles, which has shown great potential to affect bacterial inhibition and biofilm formation.

Strategies for oral health research collaboration
Sudeshni Naidoo (South Africa)

Time : 09:30 - 10:30
Room : EH 101 (Level 1)
Language : English
Chair : Supranee Dalodorn
CERP : 1

Learning Objectives
To provide:
- Principles for collaborative partnerships;
- Potential areas for international research partnerships and the role of professional organizations such as the FDI.

Abstract
Scientific research is intended to serve a social good, to enhance the health and healthcare of people. It is part of the way people collectively improve their well-being. It can and must help to solve the problems that confront us. However, research can only make a decisive difference if two preconditions are met. Firstly, the world-wide potential for scientific research must be more evenly distributed around the globe. Secondly, scientists, the public, political and economic powers, must work together.
The presentation will cover formal and informal mechanisms through which collaborative oral health research partnerships can be fulfilled.

**The aesthetic zone: Understanding the boundaries for predictable success**

Neeraj Khanna (USA)

**Time**: 09:30 - 10:30  
**Room**: GH 201 (Level 2)  
**Language**: English  
**Chair**: Janetira Tharawat  
**CERP**: 1

**Learning Objectives**
- Learn to evaluate the aesthetic zone;
- How to use length to width ratios, golden proportion;
- Effective communication with specialists when treating the aesthetic zone;
- Treatment management.

**Abstract**

The restorative dentist must have a clear understanding of the aesthetic zone, which is comprised of the soft tissue, teeth and the lips. Ideally, the teeth should be proportional in length and width, have natural color, and be able to maintain proper function. In addition, the soft tissue must be symmetrical in order to enhance the aesthetic outcome. Our goal is to duplicate what nature intended. As a result, we will discuss the criteria used to evaluate the aesthetic zone, and create a checklist that will allow the dentist to consistently follow in all cases. Once the restorative dentist understands how to evaluate the smile, the treatment planning process becomes easier. Using digital photography, and mounted models in centric relation, we can plan our aesthetic treatment in advance, and use this to create beautiful provisionals, and final restorations. The outcome is beautiful, long lasting restorations that our patients will truly appreciate.

**Future orthodontics: I got an App for that!**

Somchai Manopatanakul (Thailand)

**Time**: 09:30 - 10:30  
**Room**: EH 104 A (Level 1)  
**Language**: English  
**Chair**: Pasari Nisalak  
**CERP**: 1

**Learning Objectives**
- What is the future trend of orthodontics?
- The need and current availability of orthodontic App on smartphone;
- An App on smartphone for future orthodontics;
- Detail and use of this future orthodontic App on smartphone;
- The future role of the orthodontic App.

**Abstract**

The future trend of dentistry and orthodontics is undoubtedly in need of support from App's on smartphones. This presentation will involve the future trend of the orthodontic App's and their impact on the relevant fields of dentistry. Their need and current availability will also be discussed. Furthermore, the detail of the orthodontic App developed at Mahidol University will be well versed.

**Complications in oral surgery**

Carlos Marcelo Cerullo (Argentina)

**Time**: 09:30 - 10:30  
**Room**: EH 106 B (Level 1)  
**Language**: English  
**Chair**: Werawat Satayanuruk  
**CERP**: 1

**Learning Objectives**
- Prevention of complications in oral surgery;
- Selection of proper tools for diagnosis and techniques;
- Treatment of complications, once they happened.
Abstract
This presentation will emphasize the concept of prevention before the complications appear, through accurate methods of diagnoses, as well as indications of the proper techniques, but will show also the way of the right treatment once they have happened, minimizing the damage of surrounding structures. I will focus on local complications and the importance of the interdisciplinary work to achieve best results, not only in dental office procedures, but in life-threatening pathologies as infections. The cases to be shown will include dental procedures and dental implants, carried out by dental practitioners, not only by oral and maxillofacial surgeons.

Drug-induced oral complications
Sarah Cousty (France)

Time : 11:00 - 12:00
Room : EH 101 (Level 1)
Language : English
Chair : Arjalee Wachatara
CERP : 1

Learning Objectives
- Highlights the increasing population being prescribed drugs that might affect oral mucosa;
- Reviews the more common drugs that can induce oral lesions;
- Recognizes and describes the clinical changes linked to drugs.

Abstract
Lots of drugs induce oral complications and involvement with variable severity and frequency, such as: ulcerations, lichenoid reactions, pigmentation, bullous reactions... Other drugs present a direct toxicity, particularly on bone tissue, such as bisphosphonates or denosumab that prevent the loss of bone mass (osteoporosis and bone metastasis). Some medicines (antithrombotic therapies) increase haemorrhagic risk and cause spontaneous bleeding or surgical complications. Chemotherapy and bioterrorism enhance infectious risk. This topic highlights the most important oral complications related to drugs in terms of prevalence and side effects, particularly with recent therapies. This work was made in collaboration with Professor Frécair (Oral medicine, Bordeaux, France), and Doctor Bondon-Guitton (Drug safety surveillance, Toulouse, France). Some medicines are able to increase haemorrhagic or infectious risk. As a consequence, oral complications might occur spontaneously: spontaneous bleeding, viral or fungal infections.

Endodontics: Mission possible
Jeeraphat Jantarat (Thailand)

Time : 11:00 - 12:00
Room : GH 201 (Level 2)
Language : English
Chair : Janejira Thanarat
CERP : 1

Learning Objectives
- This presentation will focus on how technology improves our endodontics success.

Abstract
Endodontics treatment is challenging due to the complexity of the root canal system. Many dentists are afraid to perform root canal treatment in some cases. In the past decade new technology and advanced knowledge in this field have been advocated. Many complicated treatments can be simplified and made such as curve canal, perforation repair and retrieved broken instrument. Does the new and emerging technology such as Cone-beam computed tomography, dental microscope, new irrigation methods and light activated disinfection improve our endodontic success? This lecture will also cover clinical areas in regenerative endodontics and how to make it work.
Marginal bone stability around single implants leakage and micro movements
Antoine Berberi (Lebanon)

Learning Objectives
- How to maintain marginal bone around single implants;
- How to adapt our surgical and prosthetic protocol in single tooth implant;
- Effect of leakage and micro movement on the stability of marginal bone;
- The choice of the prosthetic components and the difference between original and compatible.

Abstract
Single tooth restorations of individual missing teeth are increasingly gaining importance among implant-supported restorations, but can we afford to lose this average of bone around the neck? Factors affecting marginal bone loss around implants is: Micro-gap, occlusal overload, biological width and micro-movements. Reducing cost of materials in dental office may lead to the acceptance of alternative solutions involving non-original or compatible abutments. The objective of the presentation is to assess the outcome of leakage and micro-movements on single tooth replacement with implants and original or compatible abutments with specific emphasis on the maintenance of the marginal bone level.

Learning Objectives
- Understand treatment planning and restorative concepts for the maxillary edentulous arch;
- Understand placing implants following a prosthodontic protocol;
- Understand the importance of the implant provisional phase;
- Understand how to gather diagnostic factors needed to diagnose and treat the maxillary completely edentulous maxilla.

Abstract
Implant prosthodontic treatment starts by “thinking above the bone”. Restorative dentists are faced every day with the “growing problem” of implant misaligned or misplaced implants, or not enough number of implants to execute the definitive treatment plan. With the presentation of many clinical situations limited to the maxillary arch, this lecture examines 5 critical factors that direct the type of maxillary prostheses, early in the consultation process: presence or absence of composite defect, visibility of the residual ridge, the availability of adequate interarch space, the need or not of a labial flange and the presence or the absence of bone.

Mid-day sessions 12:30 - 13:30

Meet-the-Expert
Aesthetic dentistry: Putting it all together implementation, communication with your patients, specialists, and lab technicians
Neeraj Khanna (USA)

Thinking above the gum. A prosthodontists perspective
Tony Daher (USA)

Meet-the-Expert
Implantology
Antoine Berberi (Lebanon)
Afternoon sessions 14:00 - 16:30

FDI - ISO/TC106 joint session
ISO International Standards for product safety and quality in dentistry
Kenneth Anusavice (USA)
Pam Clark (Australia)
Philippe Calfon (France)
Claudio Fernandes (Brazil)
Adirek S. Wongsa (Thailand)

Time: 14:00 - 16:30
Room: EH 104 A (Level 1)
Language: English
Chair: Patrick Hesicot
CERP: 

Learning Objectives
- Understand the role of international standards for improved safety and quality in Dentistry;
- Learn about the use of international standards from regulatory issues to innovative technologies;
- Know the importance of developing an international standard for dental identification of disaster victims;
- Recognize the value of implementing sustainability in international dental standards;
- Update on the use of dental standards in Thailand.

Abstract
The partnership of the FDI and ISO/TC/106 is moving forward to consolidate international standards as a knowledge transfer tool for improving safety and quality for the global dental community. The first nine FDI specifications were developed by the Science Committee in the 50s and adopted in 1966 as the first ISO Standards in Dentistry. Since then, there has been a strong relationship between the institutions. While ISO/TC106 has the formal responsibility for developing ISO International Standards, FDI leads clinical inputs for product standard development, dental terminology, as well as biological tests methods and prepara-
Learning Objectives
- Understand the definition and significance of biocompatibility;
- Be familiar with regulations and requirements for biocompatibility of dental materials;
- Recognize clinical relevance of biocompatibility of dental materials.

Abstract
Requirements of dental materials used to focus on their mechanical, chemical, and physical properties. With advancements in the science of biomaterials, it has been recognized that the superior mechanical strength of a dental material becomes meaningless if it is harmful to oral tissues or imposes health risks. Safety issues of dental materials have attracted attention not only from scientists and governmental regulatory agents, but also increasingly from the public. This presentation will define biocompatibility and discuss pertinent regulations and requirements; clinical relevance of potential biological responses to dental materials, and prospective research direction in developing biocompatible dental materials.

Aesthetic risk factors for anterior implant restorations
Atilla Sertgöz (Turkey)

Time : 14:00 - 15:00
Room : EH 106 B (Level 1)
Language : English
Chair : Chomquan Sangbuakew
CERP : 1

Learning Objectives
- Understanding surgical and prosthetic risk factors;
- Abutment choice;
- Placement and loading time of implants on the anterior region to provide better esthetic;
- Tissue contouring with temporary restorations;
- Anatomic risk factors.

Abstract
Increasing esthetic expectations of patients have improved the importance of the treatment plans for single tooth replacement in maxilla. Preservation or creation of a soft tissue scaffold needed to create the illusion of a natural tooth is often challenging and difficult to achieve. This difficulty is significantly compounded when an implant serves as a prosthetic support. To achieve a successful esthetic result, implant placement in the esthetic zone demands thorough preoperative diagnosis and treatment planning combined with excellent clinical skills. Present presentation will discuss the esthetic risk factor for implant restorations.

Symposium on promoting self-care through evidence
Hiroshi Ogawa (Switzerland)
Domenick Zero (USA)
Suchit Poolthong (Thailand)

Time : 14:00 - 15:00 (Part 1)
15:30 - 16:30 (Part 2)
Room : GH 201 (Level 2)
Language : English
Chair : Suchit Poolthong
CERP : Part 1: 1 / Part 2: 1

Global burden of oral disease: Importance of optimal oral health and self-care
Hiroshi Ogawa (Switzerland)

Learning Objectives
- Global burden of oral diseases;
- Effective measures in preventing oral diseases;
- Essential oral health care within the context of primary health.

Abstract
Research has shown that a number of individual, professional and community preventive measures are effective in preventing oral diseases. However, optimal intervention in relation to oral disease is not universally available or affordable because of escalating costs and limited resources. This, together with insufficient emphasis on primary prevention of oral diseases, poses a considerable challenge for many countries, particularly...
with economies and health systems in transition. The important challenge is to offer essential oral health care within the context of primary health programmes. Such programmes should meet the basic health needs of the population, strengthen active outreach to the community, organize primary care and ensure effective patient referral.

Way to interpret research data to promote health education: A new meta-analysis
Domenick Zero (USA)

Learning Objectives
- To provide a new way for knowledge translation to move evidence-based oral health approaches into practice;
- To present an alternative method to facilitate health education and patient motivation in clinical practice;
- To propose a benefit-based approach in clinical research using the responder analysis and Odds Ratios (ORs).

Abstract
Commitment to knowledge translation represents a major opportunity for reduction of health inequalities. Currently, most oral health research is focused on clinical strategies and there is a need to move evidence-based oral health approaches into practice. To achieve self-care in health promotion, the clinical data needs to be understandable for clinicians to facilitate health education and increase patient motivation. The present meta-analysis was designed to provide an alternative method to interpret clinical data and propose a benefit-based approach to clinical research and practice by using the responder analysis and Odds Ratios (ORs) to evaluate the benefit expected for their patients.

Break 15:00-15:30

Self-care for optimal oral health: Review of evidence
Domenick Zero (USA)

Learning Objectives
- To review scientific evidence on effectiveness on mechanical cleaning methods;
- To review scientific evidence on advantages of chemical agents in self-care;
- To facilitate health conversation and education in clinical practice.

Abstract
Self-care at home plays an important role to maintain individuals’ optimal oral health. There is a universal recommendation to brush twice daily for at least 2 minutes with a fluoridated dentifrice. For periodontitis patients 2 minutes is likely to be insufficient for optimal plaque removal. Daily inter-dental cleaning is strongly recommended to reduce plaque and gingival inflammation. In patients with gingivitis, the adjunctive use of chemical agents for plaque control offers advantages. This presentation will provide an update on current knowledge focusing on brushing, interdental cleaning and rinsing to facilitate health conversation and education to promote self-care through scientific evidence.

Hands-on workshop - Anterior esthetic restorations
Chalermpol Leevatoj (Thailand)

Time : 03:30 - 16:30
Room : MR 210 (Level 2)
Language : English

Learning Objectives
The hands-on will focus on:
- Restoring class IV resin composite restorations with layering technique;
- Closing the gap with resin composite restoration;
- Attendees will do hands-on on custom typodonts for both works and attend the full day lecture about anterior resin composite restorations.
Abstract
Resin composite is commonly used in anterior teeth restorations because it has tooth-like colors. Nowadays, there are numerous colors and opacity/translucency of resin composite that can be selected to mimic the natural appearances of dentin and enamel. It is therefore imperative that dentists know well the resin composite systems in use. A good understanding of the system, colors, and opacity/translucency of the material is beneficial in selecting appropriate materials for the creation of esthetic and natural-looking restorations.
The CHALLENGE of ORAL DISEASE
A CALL FOR GLOBAL ACTION

The Oral Health Atlas
SECOND EDITION

"Oral health is essential to general health and quality of life."
WHO fact sheet on oral health, 2011

"A book to highlight the extent of the problem worldwide, reflect on policies and strategies addressing the global burden of oral disease, and a valuable advocacy resource for public health experts, policy makers, the oral health profession and anyone with an interest in oral health."

For more information, visit www.fdiworlddental.org/oral-health-atlas

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<td>Prof Dr Katrin Beikes</td>
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<td>Dr Peter Santarpia</td>
<td>Employee</td>
<td>Colgate-Palmolive Company</td>
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<td>Ms Farzana Sufi</td>
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**Anusavice, Kenneth**  
Page: 75 • 115 • 160  
- Associate Dean for Research and Professor of Dental Biomaterials, University of Florida, USA.  
- Chair of the Department of Dental Biomaterials at the University of Florida from 1983 until 2009.  
- Chair of ISO/TC106 - Dentistry.

**Beaglehole, Rob**  
Page: 83  
Dr. Beaglehole is Principal Dental Officer and Senior Dentist for the Nelson Marlborough District Health Board (NMDHB) in New Zealand. He is also a member of the NZDA political lobby group and is the Tobacco Control Advisor to the NZDA. Dr Beaglehole is specialised in dental public health and has worked in dental services for more than 15 years. He has earned a BSc in Physiology and a BDS from Otago University. He also holds an MSc in Dental Public Health.

**Berberi, Antoine**  
Page: 158 • 160  
- Graduated in dentistry in 1988. Post graduated in Oral Surgery and in Periodontology from the Salpêtrière Institute University of Paris VI as well as a Doctorate in Odontology from France.  
- Diplomate of the European Board of Oral Surgery and acquired the High Degree in Research (HDR).  
- Professor at the Department of Oral and Maxillofacial Surgery, Lebanese University, Beirut.
Brodbeck, Urs
page: 86
Present position:
- Private practice at Dental Medizin North, Zürich, Switzerland.
- Specialist SSO/SSRD for Reconstructive Dentistry.
- Member of the Swiss Society for Reconstructive Dentistry.
- Freelance Dental Education for Full Ceramics, Oral Implantology and Aesthetic Dentistry worldwide.
Previously:
- Associate Professor, Department for Preventive Dentistry, Periodontology and Cariology, PPK, University of Zürich Dental School (Head: Prof. Dr. Felix Lutitz).
- Associate Professor & Assistant, Department of Crown and Bridge Prosthodontics and Dental Materials, University of Zürich Dental School (Head: Prof. Dr. Peter Schaerer, M.S.).

Calfon, Philippe
page: 160
- In charge of the Standardisation Unit of the ADF French Dental Association.
- Chairman ISO TC106 SC3 "Dentistry – Terminology”.
- Chairman CEN TC65 WG5 “Nomenclature and coding system for medical devices used in dentistry”.
- ERC/CEN TC 55 Liaison Officer.
- FDI Science Committee Member.

Cerullo, Carlos Marcelo
page: 155
- Oral and maxillofacial Surgeon, Dental Department, Hospital Pinozo, Buenos Aires, Argentina.
- OMS, Section of Pediatric Plastic Surgery, Hospital Italiano, Buenos Aires, Argentina.
- Oral and maxillofacial Surgeon - private practice.
- Assistant Professor, Facultad de Odontologia, Universidad de Buenos Aires, Argentina.
- Past President of the Argentinean Oral and Maxillofacial Association.
- Member of the International Association of Oral and Maxillofacial Surgeons.

Chan, Daniel
page: 112 • 150
Dr. Chan received his D.M.D. (1979) from the University of the Philippines and his M.S. & Certificate in Operative Dentistry (1984) and D.D.S. (1988) from the University of Iowa. He is a Fellow of the International College of Dentists and the Academy of Dental Materials. Dr. Chan has over 300 articles and abstract publications to his name and was the author of several book chapters. He lectures nationally and internationally.

Charoennratrote, Chairat
page: 89
Dr. Charoennratrote is the Dean of the Faculty of Dentistry, Prince of Songkla University, Thailand. He is an Associate Professor in Orthodontics and former Head of Orthodontic section. Dr Charoennratrote graduated in Dentistry and holds a Master's degree in Orthodontics from Chulalongkorn University. He received his Doctorate degree in Orthodontics from Boston University. He is a diplomate of the Thai Board of Orthodontics. He is the former President of the Thai Association of Orthodontists.

Cheung, William
page: 127
- Doctor of Dental Medicine, University of Pennsylvania, U.S.A.
- Private practice in Hong Kong.
- Fellow of Academy of General Dentistry, Academy of Dentistry International, and Inter-
Clark, Pam  
page : 160  
Pam Clark has been involved in a family-owned dental business in Australia for over 25 years. During that time, Pam Clark has been a Director of the ADIA - Australian Dental Industry Association for 18 years. Pam has also been a Board member of IDM - International Dental Manufacturers Association for 10 years and IDM President. Pam has attended ISO - International Standards Organization meetings for over 20 years as an Australian delegate.

Cousty, Sarah  
page : 156  
Doctor Sarah Cousty is an oral surgeon in the department of oral surgery and oral medicine in Toulouse hospital, France. She is also a teacher in Paul Sabatier University, Toulouse, France. She works in collaboration with a laboratory specialized in plasma technology, in the field of plasma sterilization and plasma medicine.

Duher, Tony  
page : 135 - 158  
Tony Duher, DDS, MEd, FACP, FICD.  
- Clinical Associate Professor of Prosthodontics at Loma Linda University (LLU) California, USA.  
- Past Lecturer, University of California at Los Angeles with Advanced Prosthodontics Program.

- Diplomate, American Board of Prosthodontics.  
- Maintains a private practice limited to Prosthodontics and Implant Dentistry in LaVerne, California, USA.  
- Published many papers and actively involved in research and continuous education.

Dalodom, Supranee  
page : 101  
Dr. Supranee Dalodom is the Director, Bureau of Dental Health, Department of Health, MOPH, Thailand. She has been involved in many OH promotions and prevention programmes including the milk fluoridation scheme, Thailand national OH survey, Program Manager in OH Program for the Elders, OH related to NCDs and proposed Thailand National OH plan for Elders to be the policy in 2015-2022.

Dillenberg, Jack  
page : 98  
Dr. Dillenberg is the inaugural Dean of A.T. Still University’s Arizona School of Dentistry & Oral Health. He received his MPH from the Harvard University and his DDS from New York University. He served in many state and local public health leadership positions. Awards received include Harvard’s Alumni Award of Merit and the Arizona Medical Association’s Humanitarian of the Year Award.

Eick, Sigrun  
page : 130  
- Since 2009: Head of the Laboratory of Oral Microbiology, Department of Periodontology, School of Dental Medicine, University of Bern, Switzerland.  
- Before: many years of experience in microbiological diagnostics; research in the field of oral microbiology.
- Focus of interest: antimicrobial activity of substances and procedures, biofilm model, bacterial proteases, analyses of micro-organisms in clinical trials.

**Elamin, Fadil**  
**page:** 101  
Dr. Fadil Elamin is a member of the FDI's Public Health Committee and also part of FDI's Alternative Restorative Materials Taskforce. He is the Director of a dental research center in Khartoum, Sudan and teaches at a local university. His research investigates dental development in disadvantaged children.

**Ermer, Michael**  
Michael Ermer studied medicine and dentistry at the University of Cologne. Since 2009 he is resident at the Department of Oral and Maxillofacial Surgery, University Medical Center Freiburg (Head: Prof. Dr. Dr. R. Schmeideisen). His main scope is on three-dimensional reconstruction in trauma patients, head and neck oncology and general health conditions interfering with dental surgery.

**Etienne, Olivier**  
**page:** 130  
Dr. Olivier ETIENNE is Assistant Professor in Prosthodontics at the University of Strasbourg (France). His Focus as Lecturer is Esthetic and Adhesive Dentistry. He has published more than 100 articles in peer-reviewed dental journals and is the author of 4 French books (Ed:CdP: Wolters-Kluwer), including "Ceramic veneers" (2013) and "All ceramic restorations on vital teeth" (2011).

**Everts, Vincent**  
**page:** 127  
Former head of the Dept. of Oral Cell Biology at ACTA in Amsterdam. Main research interest is bone biology with particular emphasis on osteoclasts and their diversity.

**Fernandes, Claudio**  
**page:** 160  
- Professor of Prosthodontics, Fluminense Federal University at Nova Friburgo.  
- Vice Chairman of UFF/NF Center for Sustainability.  
- Head of Brazilian Delegation at ISO/TC116.  
- FDI Science Committee Consultant.

**Ferrari, Marco**  
**page:** 88 • 96  
- 1995: PhD degree at Amsterdam University.  
- 1999-2000: Research Full-Professor at Tufts University-Boston.  
- From October 2000, Full Professor School of Dental Medicine, Siena University.  
- From July 2002, Dean of School of Dental Medicine.  
- From 2009, President of National Conference of Schools of Dental Medicine.  
- Visiting Professor at Rochester University, USA, and Xi’an University, China.  
- Past-President of ADM, EFCD and CED-IADR.  
- Editorial board member of 9 impact factor Journals. He is Editor of International Dentistry South Africa.  
- More than 390 international publications.
Flemming, Thomas
page: 108 • 140
- Board certified in Periodontics.
- Dr. med. dent. degree at University of Freiburg.
- Dr. med. dent. habil. degree at University of Wuerzburg.
- M.B.A. and certificate in Health Sector Management at Duke University.
- Chairman at the Departments of Periodontology at the Universities of Wuerzburg, Muenster, and Washington.
- Dean of the Faculty of Dentistry at the University of Hong Kong.
- Director of the Prince Philip Dental Hospital.

Grusovin, Maria Gabriella
page: 108
Specialist in Periodontology and Implantology. Senior clinical teaching instructor (Manchester University 2007-2011), Lecturer at post-graduate and master courses. Active member; Italian Society of Osseointegration, British Association Implant and Restorative Dentistry. Author of Cochrane Reviews, of nearly 60 articles in peer-reviewed journals and of book chapters. Member of the Board Women in Dentistry and the Commission for the Continuing Education (FDI).

Frencken, Jo
page: 126
Associate Professor in Minimal Intervention Dentistry at the Radboud University Nijmegen, the Netherlands. He obtained a MSc in Dental Public Health from the University of London and a PhD from the University of Nijmegen. He is actively involved in oral health collaboration projects with colleagues in Asia, Middle-East, Africa and Latin America.

Hargreaves, Kenneth
page: 94 • 107
Ken Hargreaves received his DDS from Georgetown, his PhD (Physiology) from USUHS, and Endodontics from University Minnesota. He is Professor and Chair of the Endodontics at University of Texas (San Antonio), maintains an endodontics private practice and is a Diplomate of the ABE. Ken has published 160 articles, two textbooks and serves as Editor of the Journal of Endodontics.

Glick, Michael
page: 84 • 94 • 115 • 124
Michael Glick, DMD, Professor, Oral Medicine and Dean, School of Dental Medicine, University at Buffalo.
Dr. Glick has authored more than 250 academic publications and several textbooks, including “Dental Management of Patients with HIV”, “Burket’s Oral Medicine: Diagnosis and Treatment” (10th, 11th, 12th eds.) and “The Oral-Systemic Health Connection”. He presently serves as Editor of The Journal of the American Dental Association and is the Chair of the FDI Vision 2020 Task Team.

Igerc, Ivona
page: 108
Since graduating from the Medical University of Croatia in 2000, Dr. Ivona Igerc has been working in the dental and aesthetic field in Croatia and China. Dr. Ivona Igerc has also spoken at international conferences, published a book and organized workshops and seminars to train medical professions in the field of Anti-aging and Aesthetic medicine. Additionally, Ivona has a strong interest in Stem Cells and Regenerative Medicine and is currently involved in therapeutic applications with adipose derived stem cells.
Juntarat, Jeeraphat

Assistant Prof. Dr. Jeeraphat Juntarat received her DDS from Prince of Songkhla University (Thailand), MDSc (Endodontics), and PhD (Dental Science), University of Melbourne (Australia). She became Diplomate of Thai Board of Endodontics in 2007 and now is currently Head of Endodontics Division, Department of Operative Dentistry and Endodontics, Faculty of Dentistry, Mahidol University, Thailand. Dr. Juntarat has lectured extensively in Thailand and at international events. She has published her research in national and international journals.

Jin, Li-Jian

Prof. Jin is the Modern Dental Laboratory Professor in Clinical Dental Science and Professor of Periodontology at the Faculty of Dentistry, The University of Hong Kong; and the Chairman of FDI Science Committee, and President of IADR-Southeast Asian Division. He served as the Chair of IADR-Global Oral Health Inquiries; The Research Agenda (GOHIRA) Task Group in Periodontal Disease (2009-2012), and President of Asian Pacific Society of Periodontology (2011-2013). His research focuses on periodontal etiopathogenesis and periodontal medicine.

Juntavee, Apa

Dr. Apa Juntavee is an Associate Professor in the Department of Paediatric Dentistry at Khon Kaen University where she has been serving as a faculty member after completing her degree in Doctor of Dental Surgery from Chiang Mai University since 1985. She received her postdoctoral degree in Paediatric Dentistry from Boston University in 1991 and completed her Masters Degree in Public Health at Harvard University in 1995. With special interest in research for medical models in treatment of dental caries especially for underserved populations, she continued her higher education and received a Ph.D. in Medical Biochemistry from Khon Kaen University in 2003. Dr. Juntavee is now serving as Editorial Advisory Board Committee for Journal of Pediatric Dentistry (JPD), Khon Kaen Dental Journal (KKDJ) as well as Scientific Paper Reviewer for Journal of the Dental Association of Thailand (JDAT).

Juntavee, Nivut

Dr. Nivut Juntavee is an Associate Professor in the department of Prosthodontics and a former Dean at the Faculty of Dentistry, Khon Kaen University, Thailand. Dr. Juntavee graduated with the degree of Doctor of Dental Surgery with honours from Chiang Mai University in 1985. He received his postdoctoral training in Prosthodontics from Boston University in 1990 and received his Master of Science degree in Prosthodontics from Boston University in 1991. He continued his higher education and received a Doctor of Science in Dentistry from Boston University in 1995. Dr. Juntavee is now serving as Director of the Board of the American Academy of Dental Education, Director of the advanced residency training program in Prosthodontics, Khon Kaen University and the Royal College of Dental Council of Thailand.
Kantaputra, Piranit
page : 90
Dr. Piranit Nik Kantaputra is the Director of the Center of Excellence in Medical Genetics Research, Chiang Mai University, Thailand. His research team has identified the genes responsible for the smallest teeth and the biggest teeth in the world. Dr. Kantaputra has identified more than 13 new genetic syndromes, published more than 59 international publications and 2 book chapters.

Karakowsky, Luis
page : 129
- DDS Universidad Autonoma de Nuevo Leon, Monterrey, Mexico.
- Certificate in Pediatric Dentistry University of Pittsburgh.
- Master of Dental Science University of Pittsburgh.
- Professor and Chair Graduate Program Pediatric Dentistry, Universidad Tecnológica de México.
- Private Practice in Pediatric Dentistry.

Kasugai, Shohei
page : 119
He graduated from the Faculty of Dentistry, Tokyo Medical and Dental University (TMDU) and he was awarded his PhD in 1983 in TMDU. He is currently a Professor and a Chairman of the Department of Oral Implantology and Regenerative Dental Medicine, and a Director of the Dental Implant Clinic, TMDU. He is focusing his research on dental implant and the related bone augmentation.

Kern, Matthias
page : 132
Dentist in the Department of Prosthodontics, University of Freiburg, Germany, 1985-1991.

Khanna, Neeraj
page : 141 • 154 • 159
Dr. Khanna has dedicated his private practice to excellence in complete, comprehensive, and aesthetic dentistry. Dr. Khanna’s philosophy involves treating every patient in the four aspects of complete dentistry. This includes achieving harmony between jaw joints, muscles, supporting tissues, and teeth. His passion for complete dentistry has opened opportunities to share his knowledge. He continues to be involved with the Dawson Academy as an associate faculty member, and Dr. Khanna is now President of the Khanna Institute of Dental Excellence (K.I.D.E.), and has lectured in the United States, India, and UAE.

Kim, Sunjong
page : 112
Dr. Kim graduated from the Yonsei University in Seoul, Korea in 1991 where he earned his DDS. He then attended Korea University where he completed his Masters of Science and PhD degrees. He was a Visiting Scholar/Research Associate for three years in the Department of
Kreiner, Marcelo
page: 136 - 139
- DDS, Universidad de la República, Uruguay.
- PhD (Medicine Doktor), University of Umeå, Sweden.
- Professor and Chair, Department of General and Oral Physiology, Universidad de la República, Uruguay.
- Acupuncturist since 1991.
- More than 50 publications and 20 research studies in the area of orofacial pain, occlusion, acupuncture, trigeminal neuralgias and sleep medicine. International Speaker and Fellow ADI and ICD.

Krejci, Ivo
page: 76
Prof. Krejci has published over 300 articles and book chapters and has lectured at numerous international meetings and continuing education courses. He is currently Ordinary Professor and Chairman of the Division of Cariology and Endodontology, Director of the Department of Preventive Dentistry and Primary Dental Care and President of the Section of Dental Medicine at the University of Geneva, Switzerland.

Kunavisarut, Chatchai
page: 104
Dr. Kunavisarut received his DDS from the Prince of Songkla University, MS in Prosthodontics from UNC at Chapel Hill, and certificate in implant dentistry from the University of Florida. He is working as a Program Director for Advanced General Dentistry Program, Clinical Director for MS in Implant Dentistry, Mahidol University. He is also an ITI Fellow and SC Co-ordinator for the ITI SEA.

Leal, Saraya
page: 126
- Graduated from University of Uberaba in 1991. She is a specialist in Pediatric Dentistry since 1995. Her master was obtained in 1999 and her PhD in 2003, both at the University of Brasilia.
- Associate Professor of the Pediatric Dentistry Department, University of Brasilia.
- Supervisor of Master and PhD students at the Post-graduation program in Health Science, University of Brasilia.

Leevaloj, Chalermpol
page: 165
Associate Professor Chalermpol Leevaloj is a fulltime instructor at Chulalongkorn University, Thailand. After he completed his DDS, he received an MSD from Indiana University, USA. He is also a Fellow of the American Board of Operative Dentistry. Dr. Leevaloj has published 20 + national and international scientific papers and composed 4 textbooks in veneers, resin composite restorations, and endodontically treated teeth.
Li, Yiming
Page: 162
Professor of Restorative Dentistry, Director of Center for Dental Research, and Associate Dean for Research, Loma Linda University (LLU) School of Dentistry; Professor of Microbiology and Molecular Genetics, LLU School of Medicine. Lectured in 17 countries and published 303 articles, abstracts and book chapters. So far received >$18 million research funding and a number of distinguished research and service awards.

Linsuwanont, Pairoj
Page: 143
- Assistant Professor of Department of Restorative Dentistry, Faculty of Dentistry, Chulalongkorn University.
- Chulalongkorn University, 1985-91 Doctor of Dental Surgery.
- The University of Melbourne, 2000-03, Graduate Diploma in Clinical Dentistry (Endodontics).
- The University of Melbourne, 2000-03, Master of Dental Science (Coursework, Endodontics).
- The University of Melbourne, 2003-07, Doctor of Philosophy.

Liou, Eric
Page: 79
Dr. Eric Liou is an Associate Professor and the Chairman of the Faculty of Dentistry, Chang Gung Memorial Hospital, Taipei, Taiwan. He is also a visiting Professor in the Department of Orthodontics, Showa University, Tokyo, Japan. For the profession affiliations, Dr. Liou is currently the President of the Taiwan Association of Orthodontists, and the President of the World Implant Orthodontic Association.

Maixner, William
Page: 103
William Maixner, DDS, PhD is the Mary Lily Kenan Flagler Bingham Distinguished University Professor and Director of the Center for Pain Research and Innovation in the School of Dentistry at the University of North Carolina, Chapel Hill. Dr. Maixner’s research program focuses on identifying the pathophysiological processes that underlie pain perception, persistent pain conditions, and related disorders. His current research focuses on genetic, environmental, biological, and psychological risk factors that contribute to the onset and maintenance of chronic pain conditions. A long term goal of his program is to translate new discoveries into clinical practices that improve the ability to diagnose and treat patients experiencing chronic pain. Dr. Maixner received his BA, DDS, and PhD from the University of Iowa. He recently was awarded the New York College of Dentistry Distinguished Scientist Award and the Wilbert E. Fordyce Clinical Investigator Award from the American Pain Society. Dr. Maixner has authored several peer reviewed paper and book chapters in both basic and clinical pain research. He is also co-founder of Algynomics Inc, which has a mission to translate clinical findings in the field of pain into novel diagnostics and therapeutics that will advance the diagnosis and treatment of common pain conditions.

Malamed, Stanley F.
Page: 126 • 136
Dr. Stanley F. Malamed is a dentist anesthesiologist and Emeritus Professor of Dentistry at the Ostrow School of Dentistry of USC, in Los Angeles, California. He is author of 3 textbooks: Handbook of local Anesthesia, Emergency Medicine in Dentistry, and Sedation: A guide to Patient Management, as well as over 150 published papers in dental journals.
Manopatanakul, Somchai

Somchai MANOPATANAKUL obtained his DDS with honours from Mahidol University and Periodontics Specialty from Chulalongkorn University, Thailand. He achieved his MDS in Orthodontics from the University of Queensland, Australia. He joined the Australasian Board, Thai Board of Orthodontics and the Royal College of Dental Surgeons of Thailand. He has been giving lectures worldwide including the US, Europe, Australia, and Asia.

Mathur, Manu

Dr. Manu R. Mathur is a Dental Surgeon with a PhD in Epidemiology and Population Health from University College London and a Masters in Public Health with specialization in Epidemiology from the University of Glasgow (UK). He is currently working as Research Scientist and Adjunct Assistant Professor at Public Health Foundation of India (PHFI), New Delhi. He has been a recipient of the prestigious Fogarty International Clinical Research Scholarship for the year 2010-11, a Wellcome Trust scholarship for his doctoral studies in the year 2009 and another Wellcome Trust Mid-Career Fellowship to undertake work on psychosocial determinants of oral health inequalities in India. He has many publications in leading international journals to his name and is the author on various book chapters.

His areas of expertise lie in advanced Epidemiologic Methods, Operations and Health Systems Research and Health Promotion. He has worked on many projects funded by the Government of India, WHO, BMGF, USAID and NIH in the past and is currently leading large scale projects from MRC UK, Global Bridges Consortium, Government of India and Rockefeller Foundation. He is currently steering a project which aims to provide technical assistance to the High-level Panel of Eminent Persons on the UN Post-2015 Development Agenda on health. He has authored many high impact peer reviewed journal articles and is the author of multiple global health book chapters.

Mattheos, Nikos

Dr. Mattheos graduated from the Dental School, University of Athens. He completed his PhD at the University of Malmö, and specialist training in Periodontology and Fixed Prosthodontics at the University of Bern. He has authored more than 70 international peer reviewed publications and he received IADR researcher's awards in 2003 and 2013. He is Associate Professor of Implant Dentistry at the University of Hong Kong.

Mersel, Alexandre

DDS Faculty of Odontology University of Lyon.
- Specialist in Oral Rehabilitation, Hadassah Faculty of Dental Medicine, Jerusalem.
- Director of Complete Dentures Prosthodontics and Gerodontics studies.
- Associate Professor, Hadassah Faculty of Dental Medicine.
- Director of the Dental Faculty Geriatric Center.
- Founder and Chair of the European College of Gerodontology.
- Board member ERO of the FDI. Chair of ERO Education WG.
- Past FDI Councillor and liaison officer for the Education Committee.
- Director FDI Eastern Europe Continuing Education Program.
- Published 87 Scientific articles. Editorial board member of several international Dental Journals.
- Director FDI Eastern Europe.
- Continuing Education Program.
Meyer, Daniel
page : 115 - 150

Dr. Dan Meyer, D.D.S. is the Chief Science Officer for the American Dental Association at its headquarters in Chicago. Dan provides guidance for the American Dental Association's scientific activities, including the ADA's international scientific programs, Center for Evidence-based Dentistry, the Council on Scientific Affairs, ADA Product Evaluations and ISO/ANSI International Standard Programs. Dan is a scientific consultant and advisor to the FDI World Dental Federation.

Meyer, Georg B.
page : 150

- Born 30.11.1948 in Bad Bevensen/Germany.
- 1993 Head of Department for Restorative Dentistry, Periodontology and Pediatric Dentistry at the University Greifswald/Germany.
- 2006 Professor Dr. honoris causa granted by Moscow State University of Medicine and Dentistry.
- 2009 Elected member Science Committee FDI.

Miyazaki, Hideo
page : 116

Professor, Division of Preventive Dentistry, Graduate School of Medical and Dental Sciences, Niigata University.

Moynihan, Paula
page : 83

Paula Moynihan is Professor of Nutrition and Oral Health and Director of the Centre for Oral Health Research at Newcastle University UK. She is also Director of the WHO Collaborating Centre for Nutrition and Oral Health at Newcastle University. Her research interests include the interrelationship between nutrition and oral health throughout the life course, and dietary intervention in older adults. Being Expert Advisor, on sugars and dental health, to the WHO Nutrition Guideline Advisory Group, she led the recent WHO commissioned systematic review of evidence relating to the amount of sugars and dental caries that has informed WHO guidelines on dietary sugars. She was also a member of the 2002 WHO Expert Consultation on Diet, Nutrition and the Prevention of Chronic Diseases. Professor Moynihan is Vice President of the Geriatric Oral Research Group and a Past President of the Nutrition Research Group of IADR. She is also a member of the management committee of the British Society of Oral and Dental Research. In 2004 she was awarded the UK Nutrition Society's Silver Medal for 'Excellence in Research by a Young Scientist'. In 2010 she was awarded an IADR Distinguished Scientist Award for 'Geriatric Oral Research'. Professor Moynihan has over 100 publications in peer reviewed journals, several book chapters and is on the editorial board for several scientific journals.

Murakami, Shinya
page : 119

Dr. Shinya Murakami is Professor and Chair of Department of Periodontology, Osaka University Graduate School of Dentistry. He received the following awards: Anthony Rizzo Periodontal Research Award (IADR) in 1998, AAP R. Earl Robinson Periodontal Regeneration Award in
Nasseh, Ibrahim
page : 137
Ibrahim Nasseh, DDS, PhD
- Fellow of the International College of Dentists.
- Fellow of the International Team for Implantology.
- Professor and Director, Oral and Maxillofacial Radiology postgraduate program, Department of DentoMaxilloFacial Radiology and Imaging, Lebanese University, School of Dentistry, Beirut, Lebanon.

Ngan, Peter
page : 77
Dr. Peter Ngan is West Virginia University Branson-Maddrell Endowed Professor and Chairman, Department of Orthodontics, West Virginia University, School of Dentistry. He is a Diplomate of the American Board of Orthodontics and Diplomate of the American Board of Pediatric Dentistry. He also holds an intramural practice at the West Virginia University Dental Care.

Naidoo, Sudeshni
page : 132 - 153
Sudeshni Naidoo is a Senior Professor and Principal Specialist in Dental Public Health, Deputy Dean for Postgraduate Studies and Research and Director of the UWC WHC Collaborating Centre for Oral Health. She has been National Vice-President of SADA, is the Immediate Past President of SA IADR and current Vice-President of the International Dental Ethics and Law Society.

Nakabayashi, Nobuo
page : 96 - 142
Emeritus Professor, Research Institute of Biomaterials and Bioengineering, Tokyo Medical and Dental University, Kanda, Tokyo, Japan.
Ogawa, Hiroshi
Page: 101 • 116 • 163
Dr. Hiroshi Ogawa has been Associate Professor at the Graduate School of Medical and Dental Sciences at Niigata University in Japan and has also worked with WHO since 2003 in different capacities. Based on a secondment between WHO and the Japanese University Consortium supported by the Japanese government, Dr. Ogawa has been seconded as Dental Officer to work with the WHO Oral Health Programme in Geneva HQ as of April 2014.

Panichuttra, Anchana
Page: 143
Dr. Anchana Panichuttra received a DDS degree from Chulalongkorn University in 1987, Certificate in Endodontics and M.S. degree from New York University in 1989 and 1990, respectively, and Ph.D. from Chulalongkorn University in 2001.

Park, Young-Guk
Page: 87
Dr. Young-Guk Park is currently the Professor and Head of Orthodontics, and the Dean of the School of Dentistry, Kyung Hee University, Seoul, Korea.

Phantumvanit, Prathip
Page: 84 • 105 • 116
Prof. Prathip Phantumvanit is a member of the WHO Expert Panel on Oral Health. He is Chair of the Board of Assessment and Accreditation for National Dental Licensure, Thailand, and elected board member of the Thai Dental Council. He was Vice-Chair of the Public Health Committee, FDI, and Dean of two dental schools in Thailand.

Pitiphat, Waranuch
Page: 116
Dr. Waranuch Pitiphat is Dean of Khon Kaen University Faculty of Dentistry, Thailand, and President of the Thai Society for Public Health Dentistry. She received her DDS from Chulalongkorn University and ScD (Epidemiology) from Harvard University. Dr. Pitiphat is active in oral epidemiological research. She has over 60 publications and has served on Editorial Boards for several professional journals.

Poolthong, Suchit
Page: 98
Dr. Suchit Poolthong is currently the Dean of the Faculty of Dentistry, Chulalongkorn University. He presently holds esteem positions in the Dental Council of Thailand, the Dental Association of Thailand and the Thai Society of Cariology. He graduated with a DDS degree from Chulalongkorn University before receiving an MSc and a PhD from the University of Sydney, Australia. His publications centred on Dental Biomaterials. He has lectured extensively on the Minimum Intervention Dentistry and the prevention of caries. His areas of interest are biomaterials, biomechanics and biominalization of teeth.

Ratisoontorn, Chootima
Page: 143
Dr. Chootima Ratisoontorn is a full-time Assistant Professor, Faculty of Dentistry, Chulalongkorn University, Bangkok, Thailand. She received a DDS degree from Chulalongkorn University in 1994. She then obtained a Certificate in Endodontics and Master of Science at the University of Pennsylvania, USA, in 2000, and Ph.D. in Oral Biology at the University of Washington, USA, in 2005.
Rolstad, Morten Harry
page : 115
- Education: Dentistry (Cand. Odont.) at Faculty of Dentistry, University of Oslo, Norway (1972-77); Dental Public Health at Faculty of Dentistry, University of Oslo (1983-84);
- Work: Dentist, Armed Forces (1977-78); Dentist, Public Dental Health Service (1978-85); Consultant, Directorate of Health (1985-87); Several positions in the Norwegian Dental Association (1987-d.d.). Presently, Director of Communication and acting Head of Office;
- National Liaison Officer and representative to FDI General Assembly for several years.

Saboric, Maja
page : 108
Maja graduated from the University of Zagreb School of Dental Medicine. She founded the Virtual World Congress of Dental Students and served as President of the European Dental Students' Association. Currently she is a PhD student at the Department of Craniofacial Development and Stem Cell Biology, King's College London Dental Institute.

Savage, Rhonda
page : 120 • 127 • 137
Dr. Savage graduated from the University of Washington School of Dentistry in 1989 with multiple honors. Dr. Savage has been in private practice for 20 years. She is a past President of the Washington State Dental Association and is a decorated U.S. Navy Lt. Commander. An international speaker and author, Dr. Savage is the CEO of Miles Global, an international practice management company and is a partner in Savage Dental Marketing.

Schmalz, Gottfried
page : 115 • 150
Professor/Chair Department of Operative Dentistry and Periodontology, University of Regensburg, Germany. Main research interests: material interaction with living tissues (biocompatibility, tissue regeneration). More than 230 articles in PubMed, founder/editor of “Clinical Oral Investigations”. Over 35 prizes and awards, e.g., the “Distinguished Scientist Award” and the “Distinguished Service Award” of IADR. Member/Senator of the German National Academy of Sciences.

Sertgöz, Atilla
page : 138
Dr. Sertgöz has been working as a full-time Professor at Marmara University, School of Dentistry since 2001. His current work consists of clinical research, teaching and intramural practice of comprehensive dentistry with special emphasis on all phases of implant dentistry and prosthodontics. He is involved in giving lectures and hands-on courses to professional organizations both nationally and internationally.

Shaw, Honorata
page : 108
Honorata Shaw, DDS, PhD, is a Professor Emeritus of Poznan University of Medical Sciences and was Dean of Medical Faculty II at that University from 1999-2005. She is a recognized expert in endodontics and is also involved in teaching communication skills at both undergraduate and postgraduate levels. Professor Shaw is currently International Vice-President of the Polish Dental Society.
Sumi, Takashi
page: 112

Dr. Takashi Sumi DDS, PhD, acquired his dentist license in 1997. Then, he studied prosthetic dentistry medical examination. In particular, research activities are carried out paying attention to the importance of the abutment between an implant and restoration equipment. Many writings are managed and his manuscript is announced by the technical magazine of a medical department and dentistry with sentence examination. Then he has served as AO Japan ambassador now.

Tolmeijer, Alexander
page: 127

Mr. Tolmeijer, LLM graduated from the Free University of Amsterdam, faculty of dentistry in 1989 and earned the title of Master of Laws at the same university in 1993. He has been active for 9 years as a Vice President and Treasurer of the Royal Dutch Dental Association (KNMT). He is a black belt lean six sigma trainer and owner of Dentiva.nl a practice management company.

Tyas, Martin
page: 141

Martin Tyas is a Professorial Fellow in the Melbourne Dental School. His main interest is in the clinical evaluation of adhesive materials and minimum intervention dentistry, and has published over 200 papers. He leads the Australian delegation to the International Organization for Standardization Technical Committee 106 (Dentistry), and is a former Chairman of the FDI Science Committee.

Von Hoyningen-Huene, Juliane

Juliane von Hoyningen-Huene graduated from the University of Leipzig (2007) and finished her M.Sc. in Functional Analysis and TMD-therapy at the University of Greifswald in 2015. She is working in a private practice in Berlin, Germany. Juliane is a member of the executive board of the Berlin Dental Chamber and the Vice President of Young Dentists Germany (BdZA).

Walton, Terry
page: 112

Dr. Terry Walton attained BDS (1974), MDSc (1979) and DDS (2013) degrees from the University of Sydney and an MS (fixed-prosthodontics) (1981) degree from the University of Michigan. He has been in specialist prosthodontic practice in Sydney since 1983 and is Professor (Affiliate) in the Faculty of Dentistry at the University of Sydney. He is past Co-President of the International College of Prosthodontists.

Watson, Timothy
page: 150

Tim Watson is Professor of Biomaterials and Restorative Dentistry and Honorary Consultant in Restorative Dentistry at King’s College London Dental Institute, Guy’s Hospital. His research is based on the microscopic imaging of new operative techniques and adhesive restorative materials, with extensive publications on microscopy, dental materials and operative dentistry. He worked in private practice at weekends for over 30 years.
Wilczak, Magdalena

Magdalena Wilczak graduated from Poznan University of Medical Sciences in 2013. In 2015 at IDS in Cologne she was elected the President of Young Dentists Worldwide. In October 2015, she will start her PhD in Periodontology at Poznan University of Medical Sciences.

Williams, David M.

page: 115 • 124

Professor Williams is Professor of Global Oral Health at Bart’s and The London School of Medicine and Dentistry, Queen Mary University of London and Academic Lead for International Partnership. He was President of the International Association for Dental Research (IADR) between 2009 and 2010 and is the driving force behind the Global Oral Health Inequalities Research Agenda initiative. This initiative sets out the research agenda to generate the evidence for a strategy that will reduce inequalities in oral health within a generation. It is a call to action for the oral and wider health research communities, policy makers and funders of research; those involved in education and workforce development; and those engaged in the development of policy and the delivery of care. He has published well over 100 scientific papers and contributed numerous book chapters. Most recently he was joint Editor in Chief of “The Challenge of Oral Disease: A Call for Global Action”, the second edition of the FDI Atlas of Oral Health.

Wongkornchaowalit, Norachai

page: 143

- 2008 DDS Chulalongkorn University.
- 2011 MS (Endodontics) Chulalongkorn University.
- 2012 Higher graduate diploma of clinical science in endodontics Chulalongkorn University.
- 2012 Thai Board of Endodontics, Royal College of Dental Surgeons of Thailand.

Wongsaa, Adirek S.

page: 160

- President of Thailand Dental Association.
- Board of Executive Directors, Dental Faculty, Chulalongkorn University.
- Visiting Lecturer for Post Graduate Program, Dental Faculty, Mahidol University.
- Visiting Lecturer for Post Graduate Program, Dental Faculty, Chulalongkorn University.
- Chief, Dental Department, Phaythai 1&2 Hospital. Member of Thai Delegation at ISO/ TC106.
- Chairman of LOC FDI2015.

Wright, J. Timothy

page: 79 • 94

Dr. J. Timothy Wright completed his DDS degree from West Virginia University and is a Pediatric Dentist at the University of North Carolina at Chapel Hill. He is the James Bawden Distinguished Professor in the Department of Pediatric Dentistry and the Director of Strategic Initiatives for the UNC School of Dentistry and Interim Chair in the Department of Endodontics. He has published over 200 manuscripts on human genetics and other topics.
Yamalik, Nermin

Current position:
- Full-time Professor in Periodontology, Hacettepe University, Ankara-Turkey.
- FDI Councillor.
- Chairperson of WG Relationship between dental practitioners and universities.

Research areas:
- Biochemical aspects of periodontal diseases, diagnostic potential of biological fluids, patient safety, evidence-based dentistry.

Young, Douglas

Dr. Young is currently a Professor at the University of the Pacific in San Francisco. In 1995, he focused his career on becoming an active and ardent educator in the field of minimally invasive dentistry and cariology. He speaks around the world and has been published in several peer-reviewed dental journals and textbooks.

Zero, Domenick

Domenick T. Zero, DDS, MS, holds the position of Director of the Oral Health Research Institute and Professor at Indiana University School of Dentistry. Dr. Zero received his dental degree from Georgetown University, Washington, D.C., and completed a general dentistry residency at the Eastman Dental Center and then a Masters degree from the University of Rochester.

GSK Symposium

Gum Health - The Science of a Sodium Bicarbonate Toothpaste
22 September, 12:30-13:30
Room: EH 104 A

D'aiuto, Francesco

Dr. D'Aiuto qualified with a DMD Honours degree from the University of Naples in 1997. He attended a number of postgraduate training courses in periodontology, completing his specialty program (MClinDent) at UCL in 2008. His research career started with a Clinical Research Fellowship from the Italian Society of Periodontology (2000), followed by a PhD in Clinical Periodontology, both at UCL. He currently works as an HEFCE Clinical Senior Lecturer/Honorary Consultant at the Periodontology Unit of the UCL Eastman Dental Institute in London.

Mason, Stephen

Dr. Stephen Mason joined GSK Consumer Healthcare in 2005 as Medical Director for Sensodyne. Previously he was Vice President and General Manager of Hill Top Research Oral Care Division. Originally a PhD chemist (Manchester) Steve has been an active and respected member of the Oral Health research community for almost 30 years and has published over 30 publications.
Parkinson, Charles
page : 133
Dr Charles Parkinson is Director of Gum and Family Oral Health Medical Affairs. Charles has spent over 10 years at GSK in a number of roles within oral health. Previously he was a research fellow in the Department of Chemistry at Northwestern University, Chicago and later in the Department of Physics at the University of Warwick. Dr Parkinson has published over 30 peer-reviewed articles, 5 patents and numerous conference papers.

NSK Luncheon Seminar
22 September, 12:30–13:30
Room: 217

Ogawa, Katsuhisa
page : 82
Dr. Ogawa is a well-recognized dental implant surgeon in Japan and he maintains a private practice in Tokyo specializing in aesthetic dentistry and implant surgery. He also holds the position of Member of the Board of Directors in a number of Associations in Japan. Dr. Ogawa has authored and co-authored 9 books and written 39 clinical publications and lectures extensively in Japan and internationally.

Colgate Symposium
Contemporary Strategies for Caries Management
23 September, 12:00–14:00
Room : 202-203

Phantumvanit, Prathip
page : 84 • 105 • 116
Prof. Prathip Phantumvanit is a member of the WHO Expert Panel on Oral Health. He is Chairman of the Board of Assessment and Accreditation for National Dental Licensure, Thailand, and elected board member of the Thai Dental Council. He was Vice-Chair of the Public Health Committee, FDI, and Dean of two dental schools in Thailand.

Pitts, Nigel
page : 105
At King’s College London Dental Institute, Professor Nigel Pitts FRSE is Director of the Innovation and Translation Centre for the Dental Institute, Executive Lead for the Clinical Innovations Theme: Executive Lead for the Collaboration to Improve Dentistry Theme and Professor of Dental Health. He is also an Honorary Consultant in Dental Public Health to Guy’s and St Thomas’ NHS Foundation Trust and was appointed by the Secretary of State to be a member of the UK’s Research Excellence Framework (REF 2014) Panel.

Professor Pitts graduated in Dentistry from the University of London, moved to the University of Hong Kong to help set up a new Dental School in the 1980s and returned to the UK to take up the Directorship of the Dental Health Services Research Unit at the University of Dundee, where he also served as Dean of Dentistry and Director of the Centre for Clinical Innovations. He moved back to London and King’s College London Dental Institute in January 2013 to set up the new Dental Innovation and Translation Centre (DITC).

Professor Pitts has assembled a portfolio of research projects supported by external peer-reviewed grants of over £20 million, largely in the fields of Dental Health Services Research, Cariology Research and Innovation for Clinical practice. Centre for Clinical Innovations (CCI) income exceeded £7 million. These activities have now been built on at King’s in setting up
and developing the DITTC. He has over 200 peer reviewed publications and over 90 Chapters, Books and Equivalent publications. Professor Pitts holds an elected Fellowship from the Faculty of General Dental Practitioners (UK) as well as further Fellowships from the Royal College of Surgeons of England, and of Edinburgh, the Faculty of Public Health and the Royal Society of Edinburgh. These Fellowships are indicative of an unusually broad career involvement spanning science, clinical practice, technology transfer and public health.

Professor Pitts has been awarded international research prizes from: the FDI World Dental Federation, the British Dental Association Research Foundation, and the International Association for Dental Research (IADR) – now holding two Distinguished Scientist Awards - for Epidemiology (1999) as well as Caries Research (2011); as well as from the European Organization for Caries Research (ORCA - where he is a Past President). He is also Past President of BASCD - the British Association for the Study of Community Dentistry and of EADPH – the European Association for Dental Public Health.

Currently, Professor Pitts is Co-Chair of the International Caries Detection and Assessment System (ICDAS) Foundation, which has established a Global Collaboration for Caries Management launched at King’s College London in June 2013. He is also Chair of the Alliance for a Cavity Free Future (both of the Global Expert Panel and the pan-European Chapter) and works with a number of research and professional organizations, as well as Companies, seeking to improve both Dentistry and Oral Health.

Santarpia, Peter

page : 105

Dr. Santarpia is Manager of Technology at Colgate-Palmolive managing the research pro-

grams for dental caries, tooth sensitivity and enamel health. He joined Colgate in 1992 from Stony Brook University where he obtained his doctorate in Oral Biology and Pathology. He is an Adjunct Biology Professor at Middlesex College and has published 37 articles in peer reviewed journals.

GSK Symposium

Going beyond sensitivity relief - A novel measure provides new insights into the impact of dentine hypersensitivity on daily life and the benefits of treatment.

24 September, 12:30-13:30
Room: EH 104 A

Bekes, Katrin

page : 133

Prof. Dr. Katrin Bekes graduated from the Martin-Luther University Halle-Wittenberg in 2002 and passed her doctorate in 2003. She then worked at the Department of Operative Dentistry and Periodontology and in 2008 moved to the Department of Paediatric Dentistry. She received her Dr. med. dent. habil. in 2012. Since 2015 she is full professor and head of the Department of Paediatric Dentistry at the University Dental Clinic of Vienna.

Parkinson, Charles

page : 80

Dr. Charles Parkinson is Director of Gum and Family Oral Health Medical Affairs. Charles has spent over 10 years at GSK in a number of roles within oral health. Previously he was a research fellow in the Department of Chemistry at Northwestern University, Chicago and later in the Department of Physics at the University of Warwick. Dr. Parkinson has published over 30 peer-reviewed articles, 5 patents and numerous conference papers.
Farzana Sufi joined GSK Consumer Healthcare in 2006 as a statistician for Sensodyne. She has worked on the design and analysis of numerous clinical trials in oral care and has been integral to the development of the DHEQ and its use in clinical research. Farzana holds an MSc in Medical Statistics and has over 20 years' experience in clinical research.
Tuesday, 22 September 2015
FREE COMMUNICATION SESSIONS 1-20

Free Communication Session 1
Room 215 | 2015-09-22 | 9:30-10:30
Theme: Dental Treatment & Restorative Dentistry - Caries

- FC001 Cavity preparation performed while viewing images from an intraoral camera
  - Hidehiro Fujie
- FC002 Needs in dental treatment of patients with sickle cell disease
  - Yolande Gnagne Agnero Koffi
- FC003 Education of Minimal Intervention Dentistry: Survey of Dental Educators
  - Faisal S Alhedyan
- FC004 To compare effectiveness of Various Irrigation Techniques on Smear Layer removal In Root Canals: A Scanning Electron Microscopic Study
  - Varinder Goyal

Free Communication Session 2
Room 216 | 2015-09-22 | 9:30-10:30
Theme: General Dentistry and Oral Health

- FC005 Role of Dentist in Tobacco-use cessation
  - Anirudh Goyal
- FC006 Evaluation of myofibroblasts in Oral Submucous Fibrosis and Oral Squamous Cell Carcinoma: an Immunohistochemical study
  - Piyush Gandhi
- FC007 Awareness of radiation hazard and protection among dental students - A study
  - Bhuvan Jyoti
- FC008 Clinical analysis and preventive treatment effects of cracked teeth
  - Reetu Shrestha
Free Communication Session 3
Room 217 | 2015-09-22 | 9:30-10:30
Theme: Implantology—Implantology

FC009  Bone grafting for Dental Implants. Is Autograft a gold standard?
Ali Khan

FC010  Micromovements and Bacterial Penetration on Different Implant-Abutment Connection System
Cesare Dorsogna

FC011  Evaluation of Nanocrystalline hydroxyapatite in Treatment of periimplantitis defects in diabetic patients
Abeer Saad Gawish

FC012  Definition and Classification of Dental Implant Complication
Ahmed Adam Monelm

Free Communication Session 4
Room 218 | 2015-09-22 | 9:30-10:30
Theme: Preventive Dentistry—Caries

FC013  Salivary pH levels and caries among siblings and parents within families
Benjamin Peretz

FC014  Influence of maternal dental anxiety on child's dental caries experience
Pranjan Mitra

FC015  Anti bacterial efficacy of coconut oil on streptococcus mutans - An In vivo study
Faizal C Peedikayil

FC016  Clinical Results of 2 Glass Ionomer Cements for Fissure Sealing in Primary Molars
Bakhtinur Khudanov

Free Communication Session 5
Room 215 | 2015-09-22 | 11:00-12:00
Theme: Dental Treatment & Restorative Dentistry—Materials

FC017  Investigation of flexural strength and elastic modulus of three CAD/CAM dental ceramics
Khalil Farhangdoost

FC018  Antimicrobial activity and properties of alginate impregnated with silver nanoparticles
Kishore Ginjupalli

FC019  The effect of aging on the cross link density of packable bulk-fill, sonic activated bulk-fill and conventional packable composite resins
Margareta Rinashti

FC020  The hardness of packable and bulk-fill composite resin with the differences of cavity depths
Diatri Nari Ratih

Free Communication Session 6
Room 216 | 2015-09-22 | 11:00-12:00
Theme: General Dentistry and Oral Health

FC021  Perceived Sources of Stress and Management Strategies of Clinical Dental Students in a Private Dental School
Nilüfer Ersan

FC022  Development of Early Australian Dental Publications
Peter Deane Barnard

FC023  Developing a New Tooth Notation System—a Pilot Study
Ashfaq Akram

FC024  Dental status of children with the syndrome of ectodermal dysplasia
Alma Zamurayeva

Free Communication Session 7
Room 217 | 2015-09-22 | 11:00-12:00
Theme: Implantology—Implantology

FC025  Difference in Bone response as well as Soft tissue pa
rameters with respect to immediate functional and non-functional loading implants; An in vivo study
Kaushal Kishor Agrawal
FC026 Effects of prosthetic parameters on bone resorption around single implant restorations
Edy Machmud
FC027 Comparison of movements and retention in single and two implant supported overdentures
Maryam Rabban
FC028 Neglected areas in Oral Implantology Education in Pai
kistanMaham Lone

Free Communication Session 8
Room 216 | 2015-09-22 | 11:00-12:00
Theme: Preventive Dentistry — Caries

FC029 Caries control in adults - fluoride varnishes versus non-fluoride agents
Anum Viglio
FC030 Translating parental knowledge and perceptions into children's oral health practices
Shiromi Nimini Wijesekara Abeygunawardhana
FC031 Dental undergraduate student's knowledge and attitude about Caries Management and Prevention in Iraq
Hakan Cakak
FC032 Effect of low power Diode Lasers Irradiation on Calcium Solubility in Human Dental Enamel: An Ex-Vivo Study
Bhadi Mohieddin Awooda

Free Communication Session 9
Room 215 | 2015-09-22 | 12:30-13:30
Theme: Dental Treatment & Restorative Dentistry — Endodontics

FC033 Root Canal Morphology of Mandibular First Premolars of Bangladeshi Population
Mohammad Aminul Islam
FC034 Seepage Vs Sealing - Who wins the Battle?
Nagesh Bolla
FC035 Trends of endodontic retreatment in various practices
Sana Ehsen Nagi

FC036 A Survey on Endodontic Irrigants used by Dentists in Pakistan
Syeda Mahvish Hussain

Free Communication Session 10
Room 216 | 2015-09-22 | 12:30-13:30
Theme: General Dentistry and Oral Health

FC037 Correlation of Dental Age, Chronological Age, And Impact Of Body Mass Index On Dental Development Among Children Of Age Group 6-13 Years
Rahul J Hegde
FC038 Influence of Sexual Dimorphism on Mesio-distal Crown Width of Anterior Teeth in a Local Institute of Karachi
Muhammad Bilal Bashir Ahmed
FC039 A Randomized Clinical Trial of an Innovative Option to Improve Oral Health Behavior
Shervin Tony Hashernian
FC040 Clinical leadership in public dental services: Framework for action
Paula Bacchia

Free Communication Session 11
Room 219 | 2015-09-22 | 14:00-15:00
Theme: Implantology — Implantology

FC041 Awareness of dental implants as a treatment choice in Ghaziabad population
Vivek Juneja
FC042 Randomized Clinical Trial of PEEK and Zirconia Implant Abutments
Pramod Kumar A V
FC043 Residual-excess-cement - Effect of gingival collar height and luting-cement
Vinni T K
FC044 Anterior guided implant: A case series
Nawakamon Suriyan
Free Communication Session 12
Room 218 | 2015-09-22 | 12:30-13:30
Theme: Preventive Dentistry — Caries

FC045  Caries experience among children attending private primary school in Kuala Lumpur, Malaysia
Nazatul Sabeelah Ahmad

FC046  Prevalence of Early Childhood Caries among 3 to 5 years old preschool children in INDIA
Ankita Pipani

FC047  Salivary total antioxidant capacity determination in sickle cell anemia patients
Sudhinda Baliga

FC048  Examination of Paramolar Tubercles in Turkish Population Using Cone-Beam Computed Tomography
Magur Kazak

Free Communication Session 13
Room 215 | 2015-09-22 | 14:00-15:00
Theme: Dental Treatment & Restorative Dentistry — Endodontics

FC049  Comparison of Apical Microleakage of Dual-Curing Resin Cements with Fluid Filtration and Dye Extraction Techniques
Hasan Orucoglu

FC050  The Role of Single Nucleotide polymorphism of matrix metalloproteinase(MMP-13rs2252070) in the etiology of dental caries: A PCR based study
Deepak Roy

FC051  Use of SINGLE FILE Technique in Contemporary Endodontics
Robert Block

FC052  The INCIDENCE and DISTANCE of APICAL PROTRUSION into MAXILLARY SINUS
Juo Pei LEE

Free Communication Session 14
Room 216 | 2015-09-22 | 14:00-15:00
Theme: General Dentistry and Oral Health

FC053  Digital (CAD/CAM) or Conventional Methods in Treatment with Occlusal Splints?
Anna-Wonneberg

FC054  Infection Control in Dentistry: Time to get serious about it!
Ramakrishna Shenoi

FC055  Optimisation of exposure parameters based on head size in cone-beam CT
Ruben Pauwel

FC056  Assessment of Oral Health Status in Children Having Chronic Renal Disease
Eateem Ahmed Shoreibah

Free Communication Session 15
Room 217 | 2015-09-22 | 14:00-15:00
Theme: Implantology — Implantology

FC057  A Retrospective Study of Implants Placed in the Sites Grafted with Autogenous Ramus Block
Yasar Ozkan

FC058  The effect of edentulous types on accuracy of computer-planned implant positions placed using Mucosa-Supported Surgical Templates
Gihan Dergin

FC059  Extraction for Immediate Implant Placement: An Innovative Technique
Vineet Jain

FC060  Antibiotic susceptibility of oral opportunistic bacteria isolated from HIV patients
Gunnar Dahlen

Free Communication Session 16
Room 218 | 2015-09-22 | 14:00-15:00
Theme: Preventive Dentistry — Epidemiology

FC061  Social disparities in oral health related quality of life in a sample of 11-14 years old school children of Lahore Pakistan
Muhammad Umar Dastgir Bhatti
Free Communication Session 17  
**Room 215 | 2015-09-22 | 15:30-16:30**  
**Theme: Dental Treatment & Restorative Dentistry – Endodontics**

**FC065** MB2: Elusively Illusive or Illusively Elusive  
Varun Raj Kumar

**FC066** Clinical Significance of the Apical Morphology of Maxillary Molars  
Thomas Gerhard Wolf

**FC067** Root Canal System Configuration of 368 Maxillary Molars  
Benjamin Briseño

**FC068** Reciprocating files: Do they increase the strength of tooth?  
Ravi Pratap

Free Communication Session 18  
**Room 216 | 2015-09-22 | 15:30-16:30**  
**Theme: General Dentistry and Oral Health**

**FC069** Supernumerary teeth in a group of Sri Lankan children  
Chandra Kumari Herath

**FC070** Dental Service Utilization Among Rural Elderly in South Indian District  
Vikram Simha Bommireddy

**FC071** Masticatory Muscles Activity in Asymptomatic Young Adults  
Aneta Wieczorek

**FC072** Identification Of Vitamin D Receptor (VDR) In Gene Polymorphism In Supernumerary Teeth  
Asmawati Amin

Free Communication Session 19  
**Room 217 | 2015-09-22 | 15:30-16:30**  
**Theme: Implantology – Oral Medicine**

**FC073** Odontogenic abscesses as first symptom in diagnosis of diabetes mellitus  
Michael Andreas Emmer

**FC074** The Long-term Effects of Immediate Implantation, Early Implantation and Delayed Implantation at Aesthetic area  
Xing Wang

**FC075** Evaluation of flow pattern of arteries in Oral Submucous Fibrosis by color Doppler  
Akhil A. Chaurasia

**FC076** Prognostic value of histopathologic parameters in assessing cervical lymph node metastasis and extracapsular spread in oral squamous cell carcinoma  
Rama Krishna Angali

Free Communication Session 20  
**Room 218 | 2015-09-22 | 15:30-16:30**  
**Theme: Preventive Dentistry – Orthodontics**

**FC077** Accelerated Orthodontic Tooth Movement: The Current State of Evidence, a Systematic Review  
Edmund Khoo

**FC078** The Use of Super Elastic NiTi Wire in 180 Degrees Anterior Torque  
Tatiya Ungphakorn

**FC079** Temporary Anchorage Devices (TADs) And Gummy smile  
Mahfud F Mohamed

**FC080** Anatomic landmarks of class II and III patients in panoramic radiographs  
Behzad Salari
23 September 2015
FREE COMMUNICATION SESSIONS 21-40

Free Communication Session 21
Room 215 | 2015-09-23 | 9:30-10:30
Theme: Dental Treatment & Restorative Dentistry - Prosthetics

FC081 Common Complications in Denture Wearing Patients
Muhammad Hassan Memon

FC082 Multidisciplinary approach in restoring fractured
endodontically treated lateral incisor
Mahesh Mundathahe

FC083 Evaluation of Effect of Astringent on Oral Mucosa
as a Nonsurgical Preprosthetic Treatment Modality
in Edentulous Patients: An In Vivo Study
Usha Radke

FC084 Tooth and skin color values of Makassar tribe
Wahida Wiro

Free Communication Session 22
Room 216 | 2015-09-23 | 9:30-10:30
Theme: General Dentistry and Oral Health

FC085 Comparison of gonial angle determination from
Cephalograms and Orthopantomogram of Patients
under Orthodontic treatment
Shoaib Durrani

FC086 A prospective experimental comparative study on
the clinical effects of calculus dissolution based
oral rinse in gingivitis patients
Rajiv Saini

FC087 Applied drama in Thai dental curriculum: Thammasat
University Experience
Sutee Suksudaj

FC088 The Experiential Activity Planner (EAP) in Thammasat
DOS and tobacco cessation for dental graduates
in Thailand
Pya Siriphant

Free Communication Session 23
Room 217 | 2015-09-23 | 9:30-10:30
Theme: Implantology - Oral Pathology

FC089 Spectrum of Salivary Gland Lesions in Pakistan:
Six-Years-Data (2009-2014)
Syed Muhammad Ali Naqvi

FC090 Clinical Studies of Oral and Maxillofacial Manifestation
in Thalassemia From Population of Karachi Pakistan
Syed Muhammad Ali

FC091 A Diagnostic Challenge: Tumour or Parasite?
Gezala Umar

FC092 microbiological evaluation of dental unit water
systems in teaching hospitals in karachi pakistan
Saima Akram Butt

FC093, FC094, FC095 and FC096
See Free Communication Session 65
Room 215 | 2015-09-25 | 11:00-12:00

Free Communication Session 24
Room 218 | 2015-09-23 | 9:30-10:30
Theme: Preventive Dentistry - Public Health

FC097 Oral health beliefs and practices in Senegal and
Ethiopia
Charlene Goh

FC098 Oral Health and Nutritional Status of Early Head
Start children Aged 2 to 5 years in a Selected Area
of Doha City
Kazi Mehdih Ul Alam

FC099 Effect of a school-based oral health educational
program on the knowledge, attitudes and practices
of children in Koraro
Millennium Village, Ethiopia
Safaq Gostar Sultman Ahmed

FC100 Assessment of the levels of oral hygiene
awareness, knowledge, attitude and practice among
the students of a government school in Karachi
Raima Bashir
Free Communication Session 25
Room 215 | 2015-09-23 | 11:00-12:00
Theme: Dental Treatment & Restorative Dentistry — Endodontics

FC101  Comparison of obturation by three different techniques — Using CBCT
Sahil Rohilla

FC102  Evaluation Of Remaining Dentin Thickness Using CBCT
Deepika Parmar

FC103  study of position and type of root canal isthmus in permanent maxillary and mandibular first molars, an in-vitro microstereoscopic study
Prashant Bhasin

FC104  The effect of different irrigation activation techniques on the microhardness of root canal dentin
Asiya Nur Dincer

Free Communication Session 26
Room 216 | 2015-09-23 | 11:00-12:00
Theme: General Dentistry and Oral Health

FC105  Role of Salivary Factors In relation to Dental Caries
Asma Saher Ansari

FC106  Assessment of Vitamin C levels in Chronic Generalised Periodontitis Patients — A study in Indian Population
Debanjan Das

FC107  Evaluation of Golden Proportion Between Anterior teeth
Aynah Tariq Shaikh

FC108  Comparison of oral health attitudes and behaviour between dental and medical students
Runki Saran

Free Communication Session 27
Room 217 | 2015-09-23 | 11:00-12:00
Theme: Implantology — Oral Pathology

FC109  Evaluation of Expression of Myofibroblasts in Oral Leukoplakia and Oral Squamous Cell Carcinoma: An immunohistochemical study
Alka M Dive

FC110  Odontogenic Cysts in Brunei: A 14-Year Retrospective Study
Errol D Samuel

FC111  Patients concerns inventory in head and neck squamous cell carcinoma — a practical approach
Sara Ikram Khan

FC112  Diagnostic potential of salivary MicroRNAs (miRNAs) in early detection of Oral squamous cell carcinoma
Vatchala Rani Rm

Free Communication Session 28
Room 218 | 2015-09-23 | 11:00-12:00
Theme: Preventive Dentistry — Orthodontics

FC113  Validation of a facial scanning system within cone-beam CT: a study on an anthropomorphic phantom
Pisha Pittayaapat

FC114  Prediction of Space Available for Unerupted Permanent Canines and Premolars in Nepalese Population
Alok Kumar Jaiswal

FC115  Serum alkaline phosphatase - A new parameter of skeletal age assessment
Arbab Anjum

FC116  White spot lesion among patients attending USIM orthodontics clinic
Azul Hafiz Abdul Aziz
Free Communication Session 29
Room 215 | 2015-09-23 | 12:30-13:30
Theme: Dental Treatment & Restorative Dentistry — Materials

FC117  Etching time and surface mechanical properties of dental hard tissues
        Muhammad Sohail Zafar
FC118  Effect of cotton-rol vibration technique on children's behavioral pain reactions
        Ali Bagherlan
FC119  Current trends in Primary Tooth Pulpotomy amongst Dentists in Karachi
        Maham Muneeb Lone
FC120  Identification of primary teeth by New Tooth Notation system (MICAP)
        Nagendra Jayavel Pandian

Free Communication Session 30
Room 216 | 2015-09-23 | 12:30-13:30
Theme: General Dentistry and Oral Health

FC121  Dentists and occupational health problems in Croatia
        Marin Vodanovic
FC122  Why should present-day dental practitioners have an evidence based practice?
        Gaurav Uday Nagarsakar
FC123  CBCT Evaluation of Sella Turcica Morphology in a Morphology in a Group of Turkish Population
        Seda Özer
FC124  Amalgam Restorations Replacements and Their Impact On The Environment
        Yajur Verma

Free Communication Session 31
Room 217 | 2015-09-23 | 12:30-13:30
Theme: Implantology — Oral Pathology

FC125  Bee honey as a locum for routine formalin fixative: A pilot study
        Ritesh Sri
FC126  Immunolocalization of pro-osteoclastic markers in ameloblastoma
        Nurmiawani Mat Hussin

FC127  Expression of cancer stem cell markers in salivary gland neoplasms
        Salina Din
FC128  Disease Progression and Monitoring Role of Oral Cytological Smears in Systemic Lupus Erythematosus
        Malik Adeel Anwar

Free Communication Session 32
Room 218 | 2015-09-23 | 12:30-13:30
Theme: Preventive Dentistry — Orthodontics

FC129  Four years stability evaluation of skeletal, dental and soft tissue changes obtained by Jasper Jumper appliance
        Atia Abd Elwareth Yousef
FC130  Endogenous IGF-I Production by Exercised Skeletal Muscle: Effect of Different Strain Regimes
        Zuhairah Ibrahim
FC131  Psychological impact of visible differences in patients with congenital craniofacial anomalies
        Varun Pratap Singh
FC132  Awareness of orthodontic treatment among medical students
        Virsha Naseem Butt

Free Communication Session 33
Room 215 | 2015-09-23 | 14:00-15:00
Theme: Dental Treatment & Restorative Dentistry—Prosthetics

FC133  Changes in gene expression of matrix metalloproteinase - 8 after insertion metal crown
        Ike Damayanti
FC134  Changes in gene expression of matrix metalloproteinase-8 after insertion porcelain fused to metal crown
        Bahruddin Thalib
FC135  Translucence and Opalescence Properties of Different CAD/CAM Ceramics
        Tevfik Yavuz
FC136  Radiographic and Clinical evaluation of 500 root form implants following immediate and delayed loading - 5 years follow up
        Dhruv Arora
Free Communication Session 34
Room 216 | 2015-09-23 | 14:00-15:00
Theme : General Dentistry and Oral Health

FC137 The Neglected Zone - “Interproximal Spaces”
Kishwer Naz Siddiqi

FC138 Importance and Considerations for the Dental
Treatment of Pregnant Women
Gvantsa Tabaghuia

FC139 Evaluation of dental education regarding the
the link between oral and general health
Hande Sar Sancakli

FC140 Effective and ethical strategies to improve research
impact
Aman Chowdhry

Free Communication Session 35
Room 217 | 2015-09-23 | 14:00-15:00
Theme 1 : Implantology - Oral Pathology

FC141 Effects of Different Concentrations of Inorganic
Arsenic on Buccal Mucosa: An Experimental Study
Muhammad Arslan Tayyab

FC142 Micrometastasis & isolated tumour cells in NO
oral carcinoma
Sarvambika Kazakydasan

Theme 2 : Implantology - Oral Surgery

FC143 New Classification of Sturge Weber Syndrome (SWS)
Tawfiq’s Classification Follow-up for 38 years
(1977-2014)
Abdel Monem Tawfiq Gadallah

FC144 Application of Orthodontic Traction in Treatment
of Impacted Teeth
Elsayed Hassan Bigazzaz

Free Communication Session 36
Room 218 | 2015-09-23 | 14:00-15:00
Theme : Preventive Dentistry – Orthodontics

FC145 Non-surgical Orthodontic Treatment of Gummy
Smile using Temporary Anchorage Devices
John Kapo Yau

FC146 A Laboratory Study to Compare the Static Frictional
Resistances of Orthodontic Ceramic Brackets
Khoriuzarjah Ismail

FC147 Development of a prediction equation for the
estimation of mandibular canine and premolar widths
from mandibular first permanent molar and incisor
widths
Sarwat Memon

FC148 Effect of teeth sterilization by gamma radiation on
enamel morphology and bond strength of orthodontic
brackets
Radwa Abdulbaset Salam

Free Communication Session 37
Room 215 | 2015-09-23 | 15:30-16:30
Theme : Dental Treatment & Restorative Dentistry - Prosthetics

FC149 “Salvadora Persica” as an oral aids for edentulous
arch
Norela Yacob

FC150 Effect of roselle denture cleanser paste storage time
on its effectiveness inhibiting plaque formation, and
the growth of bacteria and candida albican
Mohammad Dharmatama

FC151 The Influence of PFM Preparation Margin Shape on
Gingivitis Occurrence
Brilianti Horas

FC152 Palatal Rugae patterns among the populations of
Mongoloid and Tharu ethnic groups of eastern nepal
Surya Narayan Pun
Free Communication Session 38  
Room 216 | 2015-09-23 | 15:30-16:30  
Theme: General Dentistry and Oral Health

FC153  Brine Shrimp Lethality Assay of the Ethanolic Extracts of Solanum tuberosum  
Ivan Arie Wahyudi

FC154  Relationship of Direct and Indirect Factors With the Severity of Dental Caries in Children Aged 5 years in Jatinangor Sub-district, West Java, Indonesia  
R Putri Noar Fadillah

FC155  Assessment of factors responsible for brand creation of dental clinics-a cross sectional questionnaire based study  
Amar Shyamsundar Kabra

FC156  Appropriate prescription of dental radiographs by interns: a questionnaire study  
Parul Tyagi

Free Communication Session 39  
Room 217 | 2015-09-23 | 15:30-16:30  
Theme: Implantology - Oral Surgery

FC157  Evaluation Of The Effect Of Puerarin On Bone Regeneration in Maxillary Sinus Augmentation  
Hassan Abdel Ghany Mohammad

FC158  “IPG-DET Sinus grafting with intentional perforation of the Schneiderian Membrane”  
Ioannis Georgakopoulos

FC159  Comparative evaluation of the effectiveness of the implantation in the lateral part of the mandible using short implants  
Marzena Dominik

FC160  “A modified approach to use Temporalis Muscle/Fascia in Interpositional Arthroplasty for the treatment of TMJ Arkylosis”  
Arshad Mahmood Malik

Free Communication Session 40  
Room 218 | 2015-09-23 | 15:30-16:30  
Theme: Preventive Dentistry - Orthodontics

FC161  Effect of different etching techniques on the debonding characteristics of ceramic brackets  
Moustafa Tageldin

FC162  influence of mouth breathing on the orofacial skeleton growth of children—a cephalometric study  
Dilshad Umar

FC163  Doxycycline Adjunctive Effect To Scaling And Root Planing On Diabetics Hba1c Level  
Khalid Zoman

FC164  Effect of Scaling and Root Debridement versus Oral Hygiene Instructions on Periodontal status, CRP Levels and P.gingivalis Profile of Adults with Chronic Periodontitis  
Wan Nur Alwani Bt Wan Abdul Aziz
Thursday, 24 September 2015
FREE COMMUNICATION SESSIONS 41-60

Free Communication Session 41
Room 215 | 2015-09-24 | 09:30-10:30
Theme: Dental Treatment & Restorative Dentistry — Materials

FC165 The Evaluation Of Microhardness, Polymerization Shrinkage And The Heat Released During Polymerization Of A Posterior Composite Polymerized With Different Techniques And Different Light Devices
Gihan Öz

FC166 Role of Sodium Ascorbate in reversal of compromised bonding in Deproteinized Dentin
An in vitro study
Indreepreet Singh

FC167 Silorana composite repair: influence of surface treatment and repairing material
Jaime Portugal

FC168 Micro CT Evaluation of MTA and BAGs as Apical Seal
Jamaluddin Syed

Free Communication Session 42
Room 216 | 2015-09-24 | 09:30-10:30
Theme: General Dentistry and Oral Health

FC169 Analysis of Micronucleus Frequency in Buccal Mucosal Epithelial Cells of Dry Cleaning Workers
Regina Tc. Tandellini

FC170 Cytogenetic and histopathological analysis in oral potentially malignant lesions and oral squamous cell carcinoma
Hema Chandrakhas Suryawanshi

FC171 A cross-sectional analysis of use of information technology by students
Shahid Mahmood

FC172 Digital Impressions: Dentistry Beyond Perfection
Ankur Jain

Free Communication Session 43
Room 217 | 2015-09-24 | 09:30-10:30
Theme: Preventive Dentistry — Public Health

FC177 Prevalence, knowledge on ill effects and intentions to quit tobacco
Srinivas Ravoori

FC178 Quality of life in relation to orthodontic problems among adolescent children in India - A Cross sectional study
Prashanth Prakash

FC179 Knowledge, Attitude and Practices of medical Practitioner of a third world country towards Oro-dental health
Mansoor Majeed

FC180 Treatment of water: defluoridation
Rusht Patel

Free Communication Session 44
Room 218 | 2015-09-24 | 09:30-10:30
Theme: Preventive Dentistry — Periodontology

FC173 Role of Low Intensity Pulsed ultrasound in Orthodontic Tooth Movement
Dhirendra Kumar Giri

FC174 Evaluation of Anemia of Chronic Diseases after Periodontal therapy in Chronic Generalized Periodontitis Patients
Ebenezer Mani

FC175 Slow release local drug administration in periodontal diseases
Harshita Beraja

FC176 Association between periodontitis and diabetes melitus in UAE population
Ursula Mansson
Free Communication Session 45
Room 215 | 2015-09-24 | 11:00-12:00
Theme: Dental Treatment & Restorative Dentistry — Prosthetics

FC181 Evaluation of Implant Support Preparation Design And Luting Cements On Different Restoration Substructures Due To Adhesion
Recep Uzguş

FC182 Clinical evaluation of two retraction systems
Subhashree Rohinikumar

FC183 Impact of critical appraisal based learning on the preclinical complete denture teeth arrangement skill of undergraduate dental students: a randomised controlled study
Vidhya Gopinath

FC184 Clinical Evaluation of CAD/CAM fabricated long term Provisional fixed partial dentures- A Randomised clinical trial
Shermita Ann Sherry

Free Communication Session 46
Room 216 | 2015-09-24 | 11:00-12:00
Theme: Dental Treatment & Restorative Dentistry — Prosthetics

FC185 Comparison of patient satisfaction, operator learning efficiency and cost benefit of conventional and Turbyfill technique fabrication of complete denture A randomised controlled, double blinded, cross over trial
Hemalatha Ranganathan

FC186 The Evaluation of Temperature and Stress Distribution on Two Different Post Systems Using Three-Dimensional Finite Element Method
Yalın Değer

FC187 Surface treatment of implant abutment and temporarily-cemented metal copes
Waleed Elshahawy

FC188 Evaluation of degree of satisfaction among denture wearers
Rija Tirmizi

Free Communication Session 47
Room 217 | 2015-09-24 | 11:00-12:00
Theme: Dental Treatment & Restorative Dentistry — Prosthetics

FC189 Evaluation Of Retention In Two Different Modalities Of Implant Retained Mandibular Overdentures
Amr Mohamed Badr

FC190 Effect of different commercially available denture cleansing agents on the color stability of heat-cure denture base material
Manne Prakash

FC191 Dental students' perceptions on Practice Management and Career aspirations
Naveen Kumar Pera

FC192 A Comparative Study of Candidal Parameters in the Oral Cavity of Type 2 Diabetes Mellitus Patients and Non Diabetic Controls
Dr. Sarumathi Thirugnanamurthy

Free Communication Session 48
Room 218 | 2015-09-24 | 11:00-12:00
Theme: Preventive Dentistry — Periodontology

FC193 Relationship of orthodontic treatment with the periodontal structures of anterior teeth
Leandro Felix Matos

FC194 The Relationship between Diabetes Mellitus, Periodontal Health Status and Dental Caries
Syanifah Nur Izzati Alkaff Syed Mohamad Nadzir Alkaff

FC195 “Estimation Of Interleukin-1 β In Relation to Periodontal Disease”
Meenu Tanweja Bhasin

FC196 Periogen Oral Rinse Study to Determine the Effect of Periodontal Disease
Toanfoeng( bill) Them
Free Communication Session 49
Room 215 | 2015-09-24 | 12:30-13:30
Theme: Dental Treatment & Restorative Dentistry-Prosthetics

FC201 New Era in treatment of badly broken down endodontically treated teeth“ materials and techniques”
Islam Munir Ali

FC202 Effects of hot chemical etching and mdp monomer on resin cementation of zirconia ceramics
Canan Akay

FC203 Effect of The Metal Surface Treatments on the Shear Bond Strenght Between Light-Cured Micro-Hybrid Composite and Cr-Co Metal Alloy
Dilara Soyman Alpkilic

FC204 Clinical Evaluation of Occusal Overlays and Complete Coverage Crowns with Modified USPHS Criteria
Deniz Yilmaz

Free Communication Session 50
Room 216 | 2015-09-24 | 12:30-13:30
Theme: Dental Treatment & Restorative Dentistry — Pedodontics

FC197 Prevalence of selected microorganisms in the pulp space of human deciduous teeth with irreversible pulpitis
Lakshmi Pallavi Kabekkodu

FC198 Clinical Assessment and Microleakage Evaluation of Three Esthetic Restorative Materials in Class II in Primary Molars
Gihan Mohamed Abuelniet

FC199 Treatment of young permanent teeth pulpitis with formocresol pulpotomy-SSC
Gajanan Kulkami

FC200 “Comparative evaluation of commonly available storage media on PDL cell survival-An In Vitro study”
Sridhar Muktineni

Free Communication Session 51
Room 217 | 2015-09-24 | 12:30-13:30
Theme: Preventive Dentistry — Periodontology

FC205 "Efficacy of Pre-procedural Boric Acid Mouth rinse in Reducing Viable Bacteria in Dental Aerosols Produced during Ultrasonic Scaling - A Pilot Study”
Sweta Nisha

FC206 Role of green tea intake in non-surgical management of chronic periodontitis: A randomized clinical trial
Aditi Chopra

FC207 Estrogen Reseator α and Androgen receptor expression in aggressive periodontitis stimulated by vitamin D and or Dexamethasone
Dahliia Herawati

FC208 Micromolar sodium fluoride mediates anti-osteoclastogenesis in Porphyromonas gingivalis-induced alveolar bone loss
Ujwal Bhawal

Free Communication Session 52
Room 218 | 2015-09-24 | 12:30-13:30
Theme: Preventive Dentistry — Periodontology

FC209 Clinical efficacy of Aloe vera chip as an adjunct to Non surgical therapy in the treatment of Chronic Periodontitis
Surekha Rathod

FC210 Delayed presentation of patients with head and neck cancer at a tertiary care hospital in Karachi Zohra Saleem

FC211 “Use of innovative VRET in management of Dental anxiety”
Kumar Raghav Gujar

FC212 Assessment of relationship between body mass index (BMI) and oral hygiene status among type 2 diabetes mellitus patients in Dhaka City, Bangladesh Shakh Zahir Mahmud
Free Communication Session 53
Room 215 | 2015-09-24 | 14:00-15:00
Theme: Dental Treatment & Restorative Dentistry — Pedodontics

FC213 Evaluation of honey as a pulpotomy agent: An In Vivo Study
Avula Jogendra Sai Sankar

FC214 Investigation of Shear Bond Strength of Flowable Composite Applied to Femtosecond Laser Etched Primary Tooth Dentin Surface
Hakan Sahin

FC215 Evaluation of Skeletal Effects of Mandibular Lingual Arch Space Maintainer
Volkan Ciftci

FC216 NON-INVASIVE MANAGEMENT OF HOPELESS TOOTH (PERIODONTICS ENDODONTIC APPROACH): A Case Report
Benso Suljaja

Free Communication Session 54
Room 216 | 2015-09-24 | 14:00-15:00
Theme: Dental Treatment & Restorative Dentistry — Periodontics

FC217 Beneficial clinical effects of photodynamic therapy in patients with chronic periodontitis
Kastriot Meqa

FC218 Mast cell stabilizers as host modulating agents in the treatment of periodontal disease
Srinivas Sulugodu Ramachandra

FC219 Effectiveness of Gingival Retraction Methods: A Systematic Review
Sadia Tabassum

FC220 Marginal Bone Level evaluation of Implant Supported Kennedy Class I Partial Overdenture using Telescopic Crowns versus Acetal Resin Clasps Direct Retainers
Ahmed Ibrahim Mahrous

Free Communication Session 55
Room 217 | 2015-09-24 | 14:00-15:00
Theme: Preventive Dentistry — Public Health

FC221 Impact of Indigenous Tooth Cleaning and Regular Tooth Brushing on Caries Experience in Adults
Srinivas Pachava

FC222 Oral Health Needs of Prisoners in Lanarkshire of Scotland
Chuen Albert Yeung

FC223 Innovative models of oral health care - Framework for action
Colin Riley

FC224 "Infection control practices in a developing country: do dentists follow the recommendations?"
Hina Ahmed

Free Communication Session 56
Room 218 | 2015-09-24 | 14:00-15:00
Theme: Preventive Dentistry — Public Health

FC225 Knowledge, Attitude and Use of Toombak Among School Personnel in Khartoum state, Sudan: A cross-sectional Descriptive Study
Hatim Mohammed Almadi

FC226 Cross sectional study of tobacco related habits, addictions and its effects on oral health in tribal population and comparison with non tribal control population
Nandu Murari Meshram

FC227 Comparison between the caries status of hearing and visually impaired individuals in Karachi, Pakistan
Hamza Syed Muhammad

FC228 SEAL Cambodia – Placing fissure protection in a community setting successfully
Bathsheba Turton
Free Communication Session 57
Room 215 | 2015-09-24 | 15:30-16:30
Theme: Dental Treatment & Restorative Dentistry - Endodontics

FC229 Root Canal Dentin Microhardness after Treatment with Various Gutta-Percha Solvents
Mehmet Burak Guneser

FC230 In vitro assessment of the Accuracy of extra-oral method of root length determination
Muhammad Rizwan Nazeer

FC231 The Reconstruction of Root Canal Using Biological Dentin Post
Seda Filakaloğlu

FC232 Temperature and Thermal Stress Analysis of Endodontically Treated Maxillary Incisor Tooth Using Three-Dimensional Finite Element Method
Özkan Adıgüzel

Free Communication Session 58
Room 216 | 2015-09-24 | 15:30-16:30
Theme: Dental Treatment & Restorative Dentistry - Endodontics

FC233 To compare the knowledge regarding endodontic materials and techniques among dentists employed at dental institutions and private practices in Karachi
Anum Aijaz

FC234 Cutting efficiency of different cross sectional design ProTaper rotary instruments
Mohamed Katala

FC235 New approach to managing the enamel white lesion
Omar Marouane

FC236 Enhancing Complete Denture Esthetics with Characterized Anterior Teeth
Srinivasan Nedunthen Narasimhan

Free Communication Session 59
Room 217 | 2015-09-24 | 15:30-16:30
Theme: Implantology - Oral Surgery

FC237 Surgical management of maxillary tumors in a secondary healthcare facility
Oirotimi Akanbi Ologede

FC238 Evaluation of the role osseointegration of platelet rich fibrin in immediate implants - A comparative study
Saravankumar Baskaran

FC239 Ultrasonographic Evaluation of Mandibular Symphysis Advancement with Tooth and Bone-Borne Distraction
Ahmet Fethat Misir

FC240 Computer Guided Implant Surgery on regenerated bone from BRONJ healing
Sunjong Kim

Free Communication Session 60
Room 218 | 2015-09-24 | 15:30-16:30
Theme: Preventive Dentistry - Public Health

FC241 Assessment of dental caries spectrum and treatment needs among 11-14 years old schoolchildren of Rohtak city, Haryana, India
Radhey Shyam

FC242 Change in Perspective of Oral Health and Hygiene Compared From Before and During Dental School
Ahmed Moiz

FC243 Oral Manifestations and Salivary Changes in renal patients Undergoing Hemodialysis
Amudhan Azhahan

FC244 Oral Hygiene Status and Dental Treatment Practices among Orphaned Children
Punitha Velam Chokkalingam
Free Communication Session 61
Room 215 | 2015-09-25 | 09:30-10:30
Theme 1: Dental Treatment & Restorative Dentistry - Esthetics

FC245  Smiling Design in Complete Dentures
        Ebenezer Goldwin Solomon

FC246  Multiple Direct Restorations of Anterior Teeth
        Highlighting of Surface Morphology
        Zsolt Dobrentey

Theme 2: Dental Treatment & Restorative Dentistry - Materials

FC247  Effect of milk, liquid chocolate and chilled fruit juice
        on surface marginal integrity of two different resin
        modified glass ionomer cements and light cured
        composite - an in-vitro study
        Ruchi Arora

FC248  Evaluation Shear Bond Strength of New Prefabricated
        Compared to Lab-made Veneer Systems
        Nik Zarina N Mahimood

Free Communication Session 62
Room 216 | 2015-09-25 | 09:30-10:30
Theme: Preventive Dentistry - Public Health

FC249  Anxiety levels of patients presenting to dental OPD's
        in Karachi, Pakistan
        Shaharyar Shafqat

FC250  Building capacity for oral disease prevention in rural
        Ethiopia
        Esha Sheth

FC251  Clustering of oral health compromising behaviours
        in Indian adolescents
        Priyanka Parmar

FC252  Managing Caries Using the Sociodental Risk Groups
        Approach
        Rosa Amalia

Free Communication Session 63
Room 217 | 2015-09-25 | 09:30-10:30
Theme: Preventive Dentistry - Public Health

FC253  Needle Stick Injury
        Anubhav Chakrabarty

FC254  Psychosocial correlates of mothers on oral health
        services for preschool children
        Worawan Asawakun

FC255  Dental students' prevalence, perception, and
        predictors of tobacco consumption in Latin America
        Irene Tami Maury

FC256  Oral health attitudes and behaviours of remote
        Aboriginal children accessing a new specifically
        designed dental service in Australia: A survey
        Michelle Irving

Free Communication Session 64
Room 218 | 2015-09-25 | 09:30-10:30
Theme 1: Dental Treatment & Restorative Dentistry - Prosthetics

FC257  Implant-supported fixed prosthesis in mandibular
        arch using CAD-CAM titanium framework
        Wuddhinan Phanomtaksanajot

FC260  A "Hub and spoke" structure in interdisciplinary
        patient rehabilitation: The raison d'être of a
        Prosthodontist
        Mahesh Verma

FC 261  In vitro study of the quality of sealing on endodontic
        perforations
        Leandro Feliz Matos

Theme 2: Preventive Dentistry - Public Health

FC258  Caries prevalence in blind and visually impaired
        individuals in Croatia
        Jelena Duvancic

FC259  The Effect of Pain and Stress as the Manifestations
        of Oral Cancer to Patient's Quality of Life and
        Functioning: A Pilot Study
        Abel Tasman Yuza
Free Communication Session 65
Room 215 | 2015-09-25 | 11:00-12:00
Theme: Implantology - Oral Surgery

FC093  Benign fibrous histiocytoma of oral cavity-A diagnostic dilemma
       Chandra Dhar Dwivedi
FC094  Stem cells utilization in management of traumatized patients
       Abdelbadia Abdallah Abdelmaboood
FC095  MUCORMYCOSIS: A rare fatal angio-invasive fungal infection in the maxillofacial region - Clinical series
       Deepak Shivanagappa
FC096  Impact of maxillomandibular fixation on body weight
       Soju Ns
**Tuesday, 22 September 2015**

**POSTER SESSIONS 1-16**

**Poster session 1**
**Room Cubicle 1 | 2015-09-22 | 10:00-11:00**
**Theme 1: Dental Treatment & Restorative Dentistry — Caries**

**P001** Antibacterial opportunities of primer containing Fluor and MDPB
Iliana Todor Muratovska

**P002** Use of a CAD/CAM system (KaVo Dental Teacher®) for pre-clinical teaching method enhancing learning procedure and performance
Zsofia Nagy

**P003** Lactobacillus acidophilus inhibits dentinogenesis on human dental pulp
Ira Widiastuti

**P004** Dye extraction method evaluation of the sealing ability of three types of endodontic sealers
Engy Medhat Kataia

**P005** Evaluation of the antimicrobial efficacy of 20% Punica granatum, 0.2% Chlorhexidine gluconate and 2.5% Sodium hypochlorite used alone or in combinations against Enterococcus faecalis; An in vitro study
Laxminath Mallick

**Poster session 2**
**Room Cubicle 2 | 2015-09-22 | 10:00-11:00**
**Theme: General Dentistry and Oral Health**

**P006** Influence of Smoking on Oral Cavity Mucosa
Epithelium Cytophogram Peculiarities
Rudolf Tsz Tsun Shiu

**P007** Tumour Budding: A Promising Parameter in Oral Squamous Cell Carcinoma
Nandita Kp

**P008** Use of Radiomorphometric Indices Measured on Digital Panoramic Radiographs in Early Diagnosis Osteoporosis
Esra Sortmük

**P009** Radiographic position of mental foramen in a selected urban population of Bangladesh
Tasnim A Jannat

**P010** Assessment of Prescription Pattern in Dental Teaching Hospitals, Karachi, Pakistan
Saima Butt

**Poster session 3**
**Room Cubicle 3 | 2015-09-22 | 10:00-11:00**
**Theme: Implantology — Implantology**

**P011** Determination of implant loading timing: A pilot histomorphometric human study
Se Hoon Kahm

**P012** Load transfer characteristics of 3-implant-retained overdentures with different inter-implant distances
Bulent Uludag

**P013** X-ray diffraction analysis of plasma coated hydroxyapatite on Ti and Ti-6Al-4V dental implants
Ravindra Kotian

**P014** Statistical analysis of the survival rates of 216 dental implants
Noruhiro Sasaki

**P015** Evaluation of different designs of implants supported maxillary overdentures
Enas Taha Darwish

**Poster session 4**
**Room Cubicle 4 | 2015-09-22 | 10:00-11:00**
**Theme: Preventive Dentistry — Caries**

**P016** Combined effects of Er:YAG laser and casein phosphopeptide-amorphous Calcium phosphate on the inhibition of enamel demineralization
Abdolrahim Davari

**P017** Assessment of soluble fluoride concentrations in fluoridated tooth pastes marketed in Sri Lanka
Niroshani S Soyasa

**P018** In-Vitro Study of Maltitol on Growth and Acid Production of Streptococcus Mutans
Wen Sheng Rong

**P019** Quantitative Analysis of [Streptococcus mutans] and [Streptococcus sobrinus] in Child’s plaque
Boontanka Akarapipatkul
Poster session 5
Room Cubicle 1 | 2015-09-22 | 11:30-12:30
Theme: Dental Treatment & Restorative Dentistry - Endodontics

P021 The Effect of Different Shaping Techniques with the Use of NiTi Rotary Instruments on Curvature Parameters in Simulated Root Canals
Katarzyna Gawlowska

P022 Dental Pulp Tissue-engineering with Stem Cells in Rat Molars
Takefumi Ito

P023 Effects of lipopolysaccharide-stimulation on CD146 and MAP1B mRNA expression in dental pulp stem cells
Yukiko Sueyama

P024 Risk assessment of endodontic treatment according to results of CBCT
Vasilii Alamovskii

P025 Angiogenic properties of human dental pulp cells
Ana Sotir Sotiroska Ivkova

Poster session 6
Room Cubicle 2 | 2015-09-22 | 11:30-12:30
Theme: General Dentistry and Oral Health

P026 Social profile and Oral Health of Thalassaemic Patients, Sri Lanka
Nandana Kularatne

P027 An analysis of the decision to extract third molar teeth
Cahit Ucg

P028 Evaluation of mandibular lateral lingual foramina using cone-beam computed tomography
Ozlem Ucg

P029 Alveolar bone changes in post menopausal osteopenic and osteoporosis women
Md Mahabubul Islam Majumder

P030 Improvement of Mandibular Alveolar Bone Mass in Postmenopausal Osteoporosis Patient with treatment of Zoledronic acid
Abu Saeed Idrusd

Poster session 7
Room Cubicle 3 | 2015-09-22 | 11:30-12:30
Theme: Implantology - Implantology

P031 Lower anterior teeth replacement with 2.8 mm bone level implant in elderly patient
Surwandi Wallanto

P032 Biological effect of implant supported cantilever restorations with early loading
Rami Mohammed Galal

P033 Case presentation for implant retained prosthesis
Ahmed Abdelwahed Shanab

P034 Optimization of esthetic and anteroposterior distance using computer guided surgery
Atilla Sertogz

P035 Marriage made in heaven - All on 4 implants with computer guided surgery
Natasha Gambhir

Poster session 8
Room Cubicle 4 | 2015-09-22 | 11:30-12:30
Theme: Preventive Dentistry - Caries

P036 Quantitative Analysis of Streptococcus mutans and Bifidobacterium in Child’s Plaque
Attakorn Jaemset

P037 Performance of the Soprobe camera for detection of occlusal lesions in children
Michèle Muller Bolla

P038 Dental Drug Delivery System (3DS) as a new oral management system for adults
Akira Ida

P039 Effect of fluoride toothpaste to remineralization processes of enamel
Rena Qurban Aliyeva

P040 National survey on school-based fluoride mouth rinsing programme in Japan: 2014
Kazunari Kimoto
Poster session 9
Room Cubicle 1 | 2015-09-22 | 13:00-14:00
Theme: Dental Treatment & Restorative Dentistry - Endodontics

P041 CD24-expression variation of stem cell from apical papilla
Panuroot Agular
P042 The antibacterial effect of xanthorrhizol as an endodontic
Irrigant on Enterococcus faecalis
Junghoon Lee
P043 Presentation moved to Poster session 60
Room Cubicle 4 | 2015-09-25 | 13:00-14:00
P044 Prevalence of MB2 Canal in MesioBuccal Root of
Permanent Maxillary First Molar in Malay Population
Kais Raad Abdul Majeed
P045 Clinical Evaluation of Mineral Trioxide Aggregate in En
dodontic Surgery
Erika Alejandra Jardon Romero

Poster session 10
Room Cubicle 2 | 2015-09-22 | 13:00-14:00
Theme: General Dentistry and Oral Health

P046 Prophylactic removal of impacted third molar: Is it
necessary?
Ahmad Dzulfikar Samsudin
P047 Effects of D-amino acids on biofilm dispersion in Dental
Unit Water line
Nilead Akeatichod
P048 Assessment of Amalgam waste management in Karachi
Pakistan
Dr Fahmeena Asghar
P049 Salivary α-Amylase in Relation to Oral Health Parameters
in Iraqi Children
Ameena Ryhan Dajil
P050 Multiple Idiopathic Cervical Resorption: A Case Report
Sweta Thakur

Poster session 11
Room Cubicle 3 | 2015-09-22 | 13:00-14:00
Theme: Implantology - Implantology

P051 Efficiency of Bone Substitutes for Maxillary Sinus Floor
Elevation: Haydarpasa Experience
Arzu Atay
P052 Effect of phosphoric acid modified titanium surface on
physical characteristics and MC3T3-E1 cell attachment
Nanticha Rungchainicom
P053 Patients’ Awareness of A dental Implant As an Option
for Tooth Replacement; A survey in Alkhari Province,
Saudi Arabia
Hamod Hussain Algahtani
P054 Guided Implant placement with immediate provisional
crown or bridge in esthetic zone compared with the
conventional
Chatchari Kunavisarut
P055 Buccal mucoadhesive HPMC polymer for delivery
of tramadolone acetamide
Premrupee Sirsoontorn

Poster session 12
Room Cubicle 4 | 2015-09-22 | 13:00-14:00
Theme: Preventive Dentistry - Caries

P056 The occurrence of cariogenic and periodontal bacteria
in 1-yr-old infants with very low birth weights and their
mothers
Zdenek Broukal
P057 Effectiveness of Fluoride Varnish and Chewing Cheese:
In Remineralisation
Zati Balqis Mohammed Azme
P058 Impact Decrease IL-8 Expression Of Salivary Neutrophils
At Human Neutrophils Peptide Secretion In Oral Cavity
Severe Early Childhood Caries
Muhammad Luthfi Adnan
P059 Field evaluation for SMART preventive restoration in 2-4
years-old children
Araya Prongchanyudh
P060 Process evaluation of field SMART preventive restoration
at Pak tongchai, Thailand
Cheayavatanawong Somsak
Poster session 13
Room Cubicle 1 | 2015-09-22 | 14:30-15:30
Theme: Dental Treatment & Restorative Dentistry - Endodontics

P061 Evaluation of physicochemical properties in two kinds of endodontic sealers
Hanlee Eftekhar Omranian

P062 Effectiveness of propolis and natrium hypochlorite for the cleanliness root canal walls
Tamara Yuanita

P063 Effects of bleaching on laser doppler blood flow signals recorded from the underlying pulp cavity in human teeth in vitro.
Narinee Chinajtphat

P064 Root Canal Morphology of Mandibular Anterior Teeth in Thai Subpopulation
Kantapon Kaewchompoo

P065 CRISPR-Cas and bacteriophages association in endodontic, oral and multidrug-resistant hospital-acquired Enterococcus faecalis
Rogério Castilho Jacinto

Poster session 14
Room Cubicle 2 | 2015-09-22 | 14:30-15:30
Theme: General Dentistry and Oral Health

P066 Peripheral Giant Cell Granuloma: A Case Report
Bandana Koirala

P067 Parental knowledge, attitudes and awareness on dental radiography for children
Ruwang Duminda Jayasinghe

P068 Incidental and anatomical findings in the maxillary antrum identified on CBCT scans: A retrospective study
Rasika Manori Jayasinghe

P069 CBCT evaluation of Obstructive Sleep Apnea risk among dental patients
Krishna Prasad Lingamaneni

P070 Which Irrigants To Use For Surgical Removal of Wisdom Tooth?
John Keat Hon Chong

Poster session 15
Room Cubicle 3 | 2015-09-22 | 14:30-15:30
Theme: Implantology - Oral Medicine

P071 Anatomic Variation in Lingual Foramen - A Cone Beam Computed Tomography Study
Ceena Denny

P072 Rationalizing Risk Assessment in Oral Potentially Malignant Disorder Management
Peter James Thomson

P073 Oral warts in HIV-positive and -negative patients: Case reports
Ima Sulawati

P074 Expression of TLR-2 and TLR-4 Protein in the Epithelial Cells of the Oral Mucosal Patients with Recurrent Aphthous Stomatitis (RAS)
Diah Savitri Emawati

P075 Oral Lichen Planus Versus Lichenoid Reaction: Clinical Similarities and Challenges in Diagnosis
Dima Bader

Poster session 16
Room Cubicle 4 | 2015-09-22 | 14:30-15:30
Theme: Preventive Dentistry - Caries

P076 In vitro Remineralization Efficacy of Beta-Hydroxyapatite with QLF
Sawtree Buakhaw

P077 Caries regression on adjacent smooth surface after using fluoride-releasing sealant
Natchapat Thanapongpaisit

P078 Remineralization of different fluoride varnishes on advanced artificial enamel caries
Warin Tongneramitchai

P079 Measurement of the Longevity of Fissure Sealant in School Children of Rural Sri Lanka
Chandana Gajanayake

P080 Effect of Silver Diamine Fluoride on Hardness of Carious Dentine
Ungkana Leethochawalit
Wednesday, 23 September 2015

Poster session 17
Room Cubicle 1 | 2015-09-23 | 10:00-11:00
Theme: Dental Treatment & Restorative Dentistry - Esthetics

P081  Calciﬁc Metamorphosis and the Esthetic Quotient
      Mannu Vikram

P082  The effect of casein phosphopeptide-amorphous calcium
      phosphate (CPP-ACP) and ﬂuoride on microhardness of
      bleached enamel with 40% hydrogen peroxide: An invitro study
      Sornayeh Hosseini Tabatabaei

P083  Does the skin type code the tooth colour?
      Toloo Jafari

P084  Single visit ﬁber reinforced biological restoration: A case
      report
      Harakh Chand Baranwal

P085  Inﬂuence of different shade-matching devices on natural
      tooth color assessment
      Dubravka Knežović Zlatarić

Poster session 18
Room Cubicle 2 | 2015-09-23 | 10:00-11:00
Theme: General Dentistry and Oral Health

P086  Estimation and comparison of salivary superoxide dismutase
      and micronuclei assay in normal, potentially malignant
      and malignant diseases
      Sadhvi Shankar S.

P087  Exome sequencing identiﬁed a novel (PCCB) mutation
      in a Thai patient with propionic acidemia
      Thanthira Pornkaveets

P088  Anti-inﬂammatory Effect of Potato Peel Extract on
      Carrageenan-induced Edema in Rats
      Fahri Reza Ramachan

P089  Amyloidosis: A cause of macroglossia and midline swelling: A case report
      Adit Srivastava

P090  Dental caries prevalence in Buddhist monks and layman
      in Vientiane capital, Lao PDR. 2013
      Phonesouk Phengthalangsy

Poster session 19
Room Cubicle 3 | 2015-09-23 | 10:00-11:00
Theme: Implantology - Oral Pathology

P091  Micronucleus assay of buccal mucosa cells in smokers
      with the history of smoking less and more than 10 years
      Samaneh Sarshar

P092  "Head and neck cancers and their cultural risk indicators": A study
      Zunaira Zehra

P093  Immunoexpression of TGF-β in Giant Cell Tumour, Central and
      Peripherial Giant Cell Lesions
      Omar Abdul Jabbar

P094  Are Customized Zirconia implants reliable clinically?
      A one-year follow up clinical study
      Ziad Tarek Mahmoud Aly

P095  Puerarin Grafting in Sinus Lifting (Histomorphometric Study)
      Mohammed Khashaba

Poster session 20
Room Cubicle 4 | 2015-09-23 | 10:00-11:00
Theme: Preventive Dentistry - Epidemiology

P096  Clinical Observation of the Emergency Patients in Nihon
      University Hospital
      Makiko Ono

P097  Dental Caries and Child Rearing Behaviors in 9-18-month-old
      Thai Children
      Patinee Det somboonrat

P098  Prevalence of tobacco related lesions among industrial
      workers in South India
      Venkata Rama Reddy Baddam

P099  Knowledge, Attitude, Behavior of Dental and Engineering
      students towards HIV/AIDS in South India
      Lalith Prakash Chandra Kantheti

P100  Prevalence, severity and predisposing factors of incisal
      and occlusal tooth wear in adolescents in Iranian population
      Rezvan Ashouri
Poster session 21
Room Cubicle 1 | 2015-09-23 | 11:30-12:30
Theme: Dental Treatment & Restorative Dentistry - Esthetics

P101 Distribution of errors for various colors of VITA Classical shade guide tabs measured using spectrophotometer VITA Easyshade Advance 4.0
Maja Zagar

P102 Fit of ceramic restorations fabricated from two different intraoral scanners
Sacri Idaka

P103 Botox: An adjunctive therapy
Anusha Parasher

P104 Microleakage at the composite-composite and composite-tooth repair interface: effect of different surface treatments methods
Sayda Herguner Siso

P105 Color and translucency parameters of lithium-disilicate and zirconia ceramic systems.
Robert Ćelić

Poster session 22
Room Cubicle 2 | 2015-09-23 | 11:30-12:30
Theme: General Dentistry and Oral Health

P106 Multiple misaligned impacted teeth in a patient with Robinow syndrome: a rare case report
Gülsen Akay

P107 Sexual dimorphism in Thai by gonial angle
Napat Napas Lapakanokkhat

P108 Oral Hygiene Habits And Awareness Among Young Population
Sina Saygili

P109 Crosstalk between DEC1-Twist1: distinct responses to senescence and implications for aging
Yu Fujita

P110 Sexual determination by zygomatic angle in Thai population
Onanong Chaiudom Silkosessak

Poster session 23
Room Cubicle 3 | 2015-09-23 | 11:30-12:30
Theme: Implantology - Oral Surgery

P111 Technical advantages of Intra Oral Welding of Titanium implants
Adrian Mihai Nistor

P112 Orocutaneous Fistula: Sequelae of Chronic Dental Periapical Infections
Made Widya

P113 Untreated Median Cleft With Fibroma in Adolescence: A Rare Case
Nila Kencana Sari

P114 Comparison of HbA1c level on dental infection in diabetic patients
Chul Hwan Kim

P115 Presentation moved to Poster session 60
Room Cubicle 4 | 2015-09-25 | 13:00-14:00

Poster session 24
Room Cubicle 4 | 2015-09-23 | 11:30-12:30
Theme: Preventive Dentistry - Epidemiology

P116 Development and validation of oral health-related early childhood quality of life tool for North Indian preschool children
Vijay P Mathur

P117 Sex differences in caries experience in Czech nation-wide surveys 1960-2006
Jana Duskova

P118 Oral Health Status among Convenience Sample of Palestinian Adults
Elham Taib Kateeb

P119 Dental Trauma and Mouthguard Usage among Soccer Players in Thailand
Patcharaphol Samnieng

P120 Early Childhood Caries (ECC) in 3-5 years old children at Paktong Chai, Thailand
Yupin Songpaisan
Poster session 25
Room Cubicle 1 | 2015-09-23 | 13:00-14:00
Theme: Dental Treatment & Restorative Dentistry - Esthetics

P121 Aesthetic Design with Periodontal Surgery and Porcelain Laminate
Eturk Bilge

P122 Treatment of Gummy Smile With Crown-Lengthening Procedure And CAD/CAM Porcelain Laminate
Husayin Tort

P123 Evaluation of microtensile Bond Strength in Glass Ionomers after bur and Er, Cr: YSGG Conditioning
Maryam Moezzadeh

P124 Polymisation Shrinkage-Stress of Bulk-fill Resin Based Composite
Nusima Mohamed

P125 Properties of light-cured resin applied in occlusal splints manufacturing
Matek Zietek

Poster session 26
Room Cubicle 2 | 2015-09-23 | 13:00-14:00
Theme: General Dentistry and Oral Health

P126 Clefs and Maxillary Jaw Duplication: A Case Report
Sunpatch Benjavongkulchai

P127 Evaluation of the NanoXFM CarePaste's Efficiency in Dental Tubule Occlusion
Paulo Ribeiro Melo

P128 An analysis of the statistics to the needs of the people of Ukraine in prosthodontics in the complete teeth lost
Oleksii Pavlenko

P129 Effect of lemongrass oil against [Candida albicans]
Visarat Chatchanayuyenpong

P130 Pilot study on attitudes, knowledge and behaviour towards dental diseases among grade medical officers in Kandy district, Sri Lanka
Neil Roshan Alles

Poster session 27
Room Cubicle 3 | 2015-09-23 | 13:00-14:00
Theme 1: General Dentistry and Oral Health

P131 Oral Cancer in Upper Northern Thailand with a Focus on Young People: a 10-year Analysis
Nicha Komolmal

Theme 2: Implantology - Oral Surgery

P132 Stem-like properties in a small subset of oral cancer cells
Tadashige Nozaki

P133 Transmigrant mandibular canine - Case report
Pedro Mesquita

P134 Complications Associated Ridge Augmentation Using Titanium Mesh
Gokhan Goçmen

Poster session 28
Room Cubicle 4 | 2015-09-23 | 13:00-14:00
Theme: Preventive Dentistry - Orthodontics

P135 Management of deep overbite - A case report
Ritesh Singla

P136 Orthodontic-surgical treatment of a severe skeletal Class III malocclusion: a case report
Mohammed Mohammed Ellaiyth

P137 Aquasplint as a quick pain therapeutic for temporomandibular joint disorders
Tomasz Gedrange

P138 Assessment of relationship between adenoid tissue and mandibular morphology: a cephalometric study
Siddharth Mehta

P139 Cephalometric Norms of Mexican Adolescents Based on Kim's Analysis
Sarai López González

Poster session 29
Room Cubicle 1 | 2015-09-23 | 14:30-15:30
Theme: Dental Treatment & Restorative Dentistry - Materials

P140 In-vitro Evaluation of Cervical Micro leakage of the Class II Bulk Fill Restorations
Falk Bulent Topbası
Poster session 30
Room Cubicle 2 | 2015-09-23 | 14:30-15:30
Theme: Dental Treatment & Restorative Dentistry - Materials

P145 Bonding performance of flowable composite-resin to dentin of deciduous molars
Manar Abdelfattah Mohammed
P146 Sealing ability of Bioglass and MTA as perforation repair materials
Sheetal Shetty
Presentation moved to Poster session 60 - Cubicle 4
2015-09-25 / 13:00-14:00

P147 An in-vivo comparative study of nano hydroxyapatite and potassium nitrate containing desensitizer
Narmatha Jayabal
Presentation moved to Poster session 60 - Cubicle 4
2015-09-25 / 13:00-14:00

P148 Effect of time and disinfection on dimensional stability of three commonly available elastomeric impression materials: An in vitro study
Karthik Sivaraman
P149 Comparative evaluation of microleakage in Class II restorations using different restorative techniques: an in vitro study
Engin Fırat Cakan

Poster session 31
Room Cubicle 3 | 2015-09-23 | 14:30-15:30
Theme: General Dentistry and Oral Health

P150 Oral Health Status of Institutionalized Children of Kandy District, Sri Lanka
Manil Fonseka
P151 The efficacy of daily prefrontal repetitive Transcranial Magnetic Stimulation (TMS) for Burning Mouth Syndrome (BMS)
Yojiro Umezaki
P152 Correlation between viral load, neutrophil and HBD-2 in the saliva of patients with HIV
Tinu Indrawati Roestamadji
P153 HPLC IDENTIFICATION OF SUDAMALA (Artemisia vulgaris L.) AS ANTI ORAL CANCER Ira Arundina Moeskaian
P154 The expression of TLR-2 and NOD-2 in gingival epithelium after induced using probiotic (L.reuteri) to reduce [S.mutan] as the cause of caries ([Rattus norvegicus Wistar strain])
Tutu Kusumaningsih Musdari

Poster session 32
Room Cubicle 4 | 2015-09-23 | 14:30-15:30
Theme: Preventive Dentistry - Public Health

P155 Fit for School Program at Elementary School no 3 Legian, Kuta-Bali
Pulu Yetty Nugraha
P156 Are Open-Space Motorcycle Helmets A Good Prevention for Head Injuries? A Descriptive Study
Marc Bola
P157 The Development of Questionnaire Pertaining to the Knowledge, Attitude and Practice of Malaysian Adult in Relation to Oral Health Promotion Programs
Sharol Lail Sujak
P158 Oral Health Knowledge, Attitude and Practice Among Medical Doctors
Ling Siew Wong
P159 Effectiveness of Sealants Placed in Mobile School Dental Clinics
Nhan Thu Truong
Thursday, 24 September 2015

POSTER SESSIONS 33-46

Poster session 33
Room Cubicle 1 | 2015-09-24 | 10:00-11:00
Theme: Dental Treatment & Restorative Dentistry - Materials

P160 Bi-axial Flexure Strength of Various Resin Composites as a Direct Hybrid Restorative
Shigetaka Tomoda

P161 Microshear Bond Strength of a Multi-Step and a Self-Adhesive Resin Cement on Enamel and Dentin
Armin Gonzales Segarra

P162 MF-MA increases flexural strength of denture repaired with non-MMA resin
Chairat Wwetatwarrapan

P163 Micro-computed tomography analysis of grafted bone with xenograft and allograft
Thanyaporn Kangwanaronkul

P164 The Effect of Irradiation Distance on the Vickers Hardness of the Bulk-Fill Resin Composites
Deniz Selin Kahya

Poster session 34
Room Cubicle 2 | 2015-09-24 | 10:00-11:00
Theme: Dental Treatment & Restorative Dentistry - Materials

P165 Evaluation of fracture resistance of endodontically treated teeth restored with full ceramic crowns over two fiber post systems
Hadeel Sabry

P166 The Effect of pH on the Yoghurt to the Transverse Strength of Heat-Cured Acrylic Resin
Islami Jhadiyah

P167 Influence Of Surface Sealant On The Color Stability Of a Composite Resin Immersed in Different Mouth Rineses
Ayca Sarialioğlu Gungor

P168 (Effect of thermal and mechanical loading cycling (TMC) on microleakage of photo cured composite resin with different light sources units)
Yesim Senes Uslu

Poster session 35
Room Cubicle 3 | 2015-09-24 | 10:00-11:00
Theme: General Dentistry and Oral Health

P169 Effect of Adding Essential Oil Mint Leaves "("Mentha piperita L.") On Self-Cure Acrylic Resin to The Transverse Strength
Elok Faqotul Umma

P170 Rootless teeth: Dentin dysplasia type 1
Baris Karabulut

P171 Evaluation of human breast milk acidogencity and biofilm formation
Sanpob Tronglsat

P172 Oral health knowledge, attitude and practices among primary school children in Lahore, Pakistan
Rida Sajad

P173 Performance of experts and non-experts on cavity preparations performed while multi-tasking
Nattira Suksudaj

P174 Cost of Dental Treatment in Cleft Palate Child
Prajak Jariyapongpaiboon

Poster session 36
Room Cubicle 4 | 2015-09-24 | 10:00-11:00
Theme: Preventive Dentistry - Orthodontics

P175 Effective design of custom-made mouthguard for athletes undergoing orthodontic treatment
Ruman Uddin Chowdhury

P176 Comparative cephalometric study among different ethnic groups
Valdez Vargas Brenda

P177 Efficacy of transpalatal arch as a reinforcing anchorage unit during space closure- a 3-dimensional finite element study
Vishal Shrishail Kudagi

P178 Perception of Facial Aesthetics in Children seeking Orthodontic Treatment
Shruti Shivakumar

P179 Remineralization effect of low-level laser and amorphous sodium-calcium phosphosilicate paste
Edith Lara Carrillo
Poster session 37
Room Cubicle 1  |  2015-09-24  |  11:30-12:30
Theme: Dental Treatment & Restorative Dentistry - Materials

P180 Better outcome in pulpotomy on primary molar with Biodentin
Asma Sultana

P181 Morphological characteristics of novel apatite-ionomer cement
Kenji Arita

P182 Behavior of trace elements in novel apatite-ionomer cement
Hsue Hui Chiu

P183 Comparison of Bond Strength of Different Types of Resin Modified Glass Ionomer
Sherif Bahgat Eltawil

P184 Effect of Jet injection on pain perception in a group of pediatric dental patients
Norhan Abdelwahab Eldokky

Poster session 38
Room Cubicle 2  |  2015-09-24  |  11:30-12:30
Theme: Dental Treatment & Restorative Dentistry - Pedodontics

P185 Failure of tooth eruption: a report of cases
Sumit Gaur

P186 Single visit non vital apical root closure-Report of Two Cases
Tazdik G Chowdhury

P187 Experimental basis of coloration minimization in use of silver diamine fluoride
Alexandr Butylovsky

P188 Evaluation of Salivary Immunoglobulin A, and Iron Ion in Relation to Dental Caries among Children with Beta Thalassemia Major
Ban Ali Sallih

P189 Multipotency of mesenchymal stromal cells isolated from deciduous teeth
Moon Cheung Lai

Poster session 39
Room Cubicle 3  |  2015-09-24  |  11:30-12:30
Theme: General Dentistry and Oral Health

P190 The dentin model preparation for in vitro testing of dentine hypersensitivity
Yanxiang Li

P191 Analysis of Patient Satisfaction on Non- Clinical Services in a Major Dental Institute Sri Lanka
Arabagedara Thushitha Sudarshana

P192 Characteristics and content study of Oral Health-related Applications on IOS platform
Woranuch Chetpakdeeich

P193 Reasons and satisfaction on using dentist and non-dentist denture services
Pakorn Jitkitsuadakul

P194 Attitude of factory managers towards workplace oral health promotion program
Haruthai Sukcharoenkosol

Poster session 40
Room Cubicle 4  |  2015-09-24  |  11:30-12:30
Theme 1: Preventive Dentistry - Orthodontics

P195 Cephalometric comparison of pharyngeal airway and structures in growing subjects
Janota Chavanavesh

Theme 2: Preventive Dentistry - Periodontology

P196 Control of plaque and gingivitis by a herbal toothpaste
Holger Friedrich Rudolf Jentsch

P197 Oral Health Promotion by Salivary Hemoglobin Tests
Mami Kotoh

P198 In vitro antibacterial activity of mouthrinses
Nilson Bagis

P199 Does adhesin protein from “Aggregatibacter actinomycetemcomitans” local isolate and b serotype can influence sIgA titre on aggressive periodontitis
Rini Devijanti Ridwan
**Poster session 41**
**Room Cubicle 1 | 2015-09-24 | 13:00-14:00**
Theme: Dental Treatment & Restorative Dentistry - Pedodontics

P200 Therapeutic Effect of Supervised Flavoured Chlorhexidine Mouth rinse for School Children Suffering from Gingivitis (A Clinical Study)
Ban Ali Salih

P201 Restoration of Extensively Damaged Permanent Molars of Kids with Endocrowns
Ece Turan

P202 Ultra structural and Microbiological Analysis of the Carious Dentin in Primary Molars Treated by Minimal Intervention
Rania Abdalla Nasr

P203 Decoronation of an upper central tooth in a growing patient
Ozgul Baygin

P204 Educating Mothers to Screen Caries in their Special-Health-Care-Needs Children
Marvat Abd Elmoniem Rashed

**Poster session 42**
**Room Cubicle 2 | 2015-09-24 | 13:00-14:00**
Theme: Dental Treatment & Restorative Dentistry - Pedodontics

P205 Potential use of goat milk as storage media to preserve the viability of human periodontal ligament cells: an in vitro study
Ayca Tuba Ulusoy

P206 Multidisciplinary Treatment of a Patient with Regional Odontodysplasia: A Case Report with 8-year Follow-up
Esra Caren Tatl

P207 Unusual Ectopic Eruption of a Permanent Central Incisor
Corn Muhamrem Dogan

P208 Diagnosis and Treatment Plan of a Gminated Maxillary Incisor Using CBCT
Buse Ayse Senin

P209 Experience of community-based outreach clinic, the Helsinki model
Battsetseg Tseveenjav

**Poster session 43**
**Room Cubicle 3 | 2015-09-24 | 13:00-14:00**
Theme: Preventive Dentistry - Periodontology

P210 gingival crevicular fluid IL-8 and IL-4 levels of smokers and non-smokers with different periodontal status
Muge Lutfioglu

P211 Influence of tensile frequency on RANKL/OPG ratio in HPDL cells
Neeracha Sanchawanakit

P212 Influence of Polishing Fluid during Implant Cleaning on Surface Alterations
Petra Schmäe

P213 Comparison study of bone regeneration of Bio-oss and Matrix in dog's mandible
Seyed Mohammad Hosseinpanah

P214 The profile of Osteoprotegerin, RANK-Ligand, and Matrix Metalloproteinase-1 among Aggressive Periodontitis Patients in Surabaya
Indeswati Dyatri

**Poster session 44**
**Room Cubicle 4 | 2015-09-24 | 13:00-14:00**
Theme: Preventive Dentistry - Periodontology
Preventive Dentistry - Public Health

P215 Periodontal Disease and Salivary Cytokines in Puerto Rican Adolescents
Lydia Maria Lopez Del Valle

P216 Oral Simvastatin in Reduction of Periodontal Attachment Loss: Observational Study
Pichaya Wairojanakul

P217 Intraral Carcinogenicity of Arecoline and Tar in Tobacco: A Survey in Parau
Shiro Yamamoto

P218 Attitude of dental students towards people living with HIV/AIDS
Manuel Sebastian Thomas

P219 Bio-medical Waste Management Practices in Dental Offices
Swapna Venkatesh Bettanapally
Poster session 45  
Room Cubicle 1 | 2015-09-24 | 14:30-15:30  
Theme: Dental Treatment & Restorative Dentistry – Pedodontics

P220 Gene Expressions of Deciduous Dental Pulp Cells Cultured with Serum-free Medium  
Kyoko Harada

P221 Pluripotency markers from dental pulps of permanent and deciduous teeth  
Yada Anantawat

P222 Replantation of Avulsed Tooth: Challenges and Outcomes  
Arvind Ramanathan

P223 Evaluation of Papacarie in Primary Teeth: An in vivo and in vitro study  
Wael Mahmoud Abd Alkhalek

P224 Comprehensive treatment strategies for Chronic Periodontitis in metabolic syndrome cases  
Rupali Agnihotri

Poster session 46  
Room Cubicle 2 | 2015-09-24 | 14:30-15:30  
Theme: Dental Treatment & Restorative Dentistry – Pedodontics

P225 Comparative Study of Risk Factors of Periodontal Disease among Urban and Rural Population  
Nishu Singla

P226 Management of Multiple Recession with Coronally Advanced Flap: Case Report  
Prajna Metta

P227 Different Modalities in Management of Palato-Radicular Groove: Case Reports  
Nashid Pandey

P228 Immunohistochemical study of periosteal-derived cell sheet cultured on amnion  
Takeshi Amemiya

P229 Fibre-reinforced conservative bridge with natural tooth pontic: a case report  
Shivalal Sharma (khanal)
Friday, 25 September 2015
POSTER SESSIONS 49-59

Poster session 49
Room Cubicle 1 | 2015-09-25 | 10:00-11:00
Theme 1: Dental Treatment & Restorative Dentistry - Periodontics

P240 A mucobuccal-releasing incision to increase inadequate attached gingiva in a generalized aggressive periodontitis
Munova Tanca

P241 Treatment of Gingival Recession by Using Coronally Repositioned Flap with Modification
Nur Rahmah H

P242 Consideration for laterally moved, coronally advanced flap for treatment isolated type-gingival recession
Wendy Shek

Theme 2: Dental Treatment & Restorative Dentistry - Prosthetics

P243 Biological Study for Treatment Of Pier Abutment Edentulous Cases
Wessam M Dehis

P244 Esthetic and Function Evaluation after Treatment with Removable Dentures by Patients, Lay Persons, Dentists in a Dental School in Pakistan
Saba Faruqui

Poster session 50
Room Cubicle 2 | 2015-09-25 | 10:00-11:00
Theme: Dental Treatment & Restorative Dentistry - Prosthetics

P246 Modern methods of diagnosis and treatment of dentition defects and functional disorders of the TMJ
Ozhogan Zinowy

P247 A clinical report on management of a flabby maxillary ridge and extremely resorbed mandibular ridge
Bishal Babu Basnet

P248 Evaluation of occlusion with tooth contact sounds
Sajani Ramachandran

P249 New KKU-device for occlusal plane determination in partial edentulous patient
Yada Chestsuttayakul

Poster session 51
Room Cubicle 3 | 2015-09-25 | 10:00-11:00
Theme: Preventive Dentistry - Public Health

P250 Oral Health Status and Self-Perception of Adolescent Inmates in Prison
Didem Onur Ozdas

P251 Tooth loss and risk factors in Vietnamese elderly
Mare Saeg

P252 Musculoskeletal Disorders and its mitigation through Ergonomics
Aftaf Fatima

P253 The relationship between dental caries and height and weight of children aged 36-71 months in kindergartens in Vientiane capital, Lao PDR
Arphayin Homsavath

P254 Antibacterial Effects of Mouth Moisturizer Containing Chlorine Dioxide for Oral Appliance
Akio Matsushima

Poster session 52
Room Cubicle 4 | 2015-09-25 | 10:00-11:00
Theme: Preventive Dentistry - Public Health

P255 Establishment of oral health service in Phong Hong, Lao PDR
Gen Yano

P256 Factors affecting dental anxiety among patients visiting dental OPD in South India
Deepak Kumar Singhel

P257 Tobacco use of Thai dental Students in 2011
Wiku Visalseth

P258 Promoting Parental Supervision For Prevention of Dental Caries In Children
Syed Muhammad Faizan

Poster session 53
Room Cubicle 1 | 2015-09-25 | 11:30-12:30
Theme: Dental Treatment & Restorative Dentistry - Prosthetics

P260 Two piece Denture-Obturator - A Case Report
Proma Sukumeran
**Poster session 55**
Room Cubicle 3 | 2015-09-25 | 11:30-12:30
Theme: Preventive Dentistry - Public Health

P270 Possible Biomarkers prediction for MRONJ (Medication Related Osteonecrosis of The Jaw)
Jinwoo Kim

P271 Quality of Toothbrushes in Thailand
Nontinee Tangcharoendee

P272 Knowledge and awareness of Oral cancer among dental students
Kulsoom Zahir

P273 National Oral Health Preventing Program for Children from 0 to 18 years Bulgaria - Survey to Assess the Psychological and Social Impact on the Population
Victoria Fedorovna Zhekova

P274 Google Translate and Mobile Phone Messaging: Overcoming Language Barriers in Service Delivery
Jason Holt

**Poster session 54 - Room Cubicle 2 | 2015-09-25 | 11:30-12:30**
Theme: Dental Treatment & Restorative Dentistry - Prosthetics

P265 Color change and bond strength of composites after immersion in beverages
Meryem Gülcen Subaşı

P266 Storage time effect of Rosella mouthwash in inhibiting plaque formation on porcelain crowns
Eri Hendra Juhari

P267 Effect of Different Types of Design Modifications against Tensile Strength Adhesive Bridge
Erwina Sari Surya

P268 Effect of different surface treatments on adhesion of glass-ceramics to resin cement
Mohammed Ali Aslan

P269 Evaluation of the Effects of Silver and TiO2 Nano particles on Mechanical and Antibacterial Properties of Acrylic Resins
Abdolrasoul Rangrazi

FRIDAY 25 SEPTEMBER

P275 Continuous Quality Improvement of Tooth Brushing Skills by Health Teachers Supervision of Primary School Network
Itssaranuwat Yongpisanhop

P276 OHRQoL of 12- and 15-year-old Thai population
Itssaranuwat Kaewkamnerdpong

P277 Oral health-related quality of life among neglected elderly living in a rural elderly home in Myanmar
Kyaw Zami Tun

P278 Analgesic Prescription Pattern In The Management Of Postoperative Dental Pain Among Internship Dental Students
San Eak Oeng

P279 Clinical Efficacy of Two Dentifrices on Anti-plaque and Anti-gingivitis
Zhou Yi
Poster session 57
Room Cubicle 1 | 2015-09-25 | 13:00-14:00
Theme: Dental Treatment & Restorative Dentistry - Prosthetics

P280 Evaluation of survival rate and fracture resistance of monolithic zirconium and metal-ceramic implant supported 3-unit fixed partial dentures by the chewing simulation with increased bite force
Saadeh Atsu

P281 Perfect seal evaluation of fixed prostheses in acidic oral simulation
Marakot Piemjai

P282 The nature and number of occlusal contacts in intercuspal position of natural teeth
Tanzeela Imran

P283 Effect of Opacifier on Hardness of Pigmented Maxillofacial Silicones
Bharat Ranjit Mirchandani

P284 Altered Cast Technique For Fabrication Of Implant Retained Auricular Prosthesis
Waqas Tanveer Sheikh

Poster session 58
Room Cubicle 2 | 2015-09-25 | 13:00-14:00
Theme 1: Dental Treatment & Restorative Dentistry - Prosthetics

P285 Inadvertent complication during impression-taking for complete maxillary prosthesis: A case report
Merve Dogan

P286 Prosthetic rehabilitation of a patient with maxillo-mandibular defect: A case report
Almina Muric

Theme 2: Preventive Dentistry - Public Health

P287 A new Model to Evaluate the Efficacy of Calculus Inhibitory Agents
Xu Juan

P288 Inhibition Effects of Darlie Salt Gum Care Mouthwash on Periodontal Bacteria
Ye De Cheng

P294 Ledomix Pulp Treatment in a permanent molar: A case report
Fahd A A Karim

Poster session 59
Room Cubicle 3 | 2015-09-25 | 13:00-14:00
Theme: Preventive Dentistry - Public Health

P289 Clinical evaluation on Extrinsic Stain Removal of A Whitening Toothpaste
Gao Lin

P290 Self-efficacy of 2015 Thammasat-DDS-graduates in the primary-prevention of oral cancer
Sopida Thipungs

P291 Utilization of dental care among Thai adults: Inequality exists and its determinants
Pongsin Pongsupatanan

P292 Oral Cancer Awareness Among A Group Of Sudanese Patients Attending The UST Teaching Dental Hospital, 2014
Tasneem Mohamed Babiker

P293 Impact of oral health fund in Thai Primary School Children
Pyada Prasertsom

Poster session 60
Room Cubicle 4 | 2015-09-25 | 13:00-14:00
Theme: Dental Treatment & Restorative Dentistry - Endodontics

P043 Evaluation of Apical Leakage After Final Rinse of Qmix Activated with EndoActivator
Elif Kalyoncuoğlu

Theme: Implantology - Oral Surgery

P115 Palatal Bone Necrosis Seen after Excision of a Pleomorphic Adenoma with Electrocautery: Report of a Case
Burcu Baş
Hands-on Courses

Microscope and ultrasonic in endodontics

THURSDAY 24 SEPTEMBER:
Morning sessions 09:30 - 12:00
Afternoon sessions 13:00 - 16:30

Pairoj Linsuwanont (Thailand)
Chootima Ratisoontorn (Thailand)
Anchana Panichuttra (Thailand)
Norachai Wongkornchaowalit (Thailand)

General Congress Information

Venue
Bangkok International Trade & Exhibition Center (BITEC)
88 Bangna-Trad Road (Km.1), Bangna, Bangkok 10260, Thailand
Tel: +662 726 1999, + 662 366 9797 Fax: +662 726 1919
Web: www.bitec.co.th

Registration Area
Registration Desk Opening Hours:
22nd - 25th September, 2015 / 8.00 A.M. - 5.00 P.M.
World Dental Exhibition
22nd - 25th September, 2015 / 9.00 A.M. - 5.00 P.M.

WIFI Access
Username: FDI2015Bangkok
Password: welovefdibangkok

Poster Area
Poster Area is dedicated at Foyer area in front of Grand Hall,
Level 2.

Free communications
Free communication Session will be taking place on Level 2.

Certificate of Presentation
Each presenter will be handed a certificate of presentation. These
certificates will be available in free communication rooms and
poster area. Please do not forget to collect your certificate after
presentation.

Anterior esthetic restorations

FRIDAY 25 SEPTEMBER: 09:30 - 16:30

Chalermpol Leevaloj (Thailand)
Number of Continuing Education credits available:

FDI World Dental Federation is an ADA CERP Recognized Provider.

ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses or instructors, nor does it imply acceptance of credit hours by boards of dentistry.

This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP) through joint efforts between FDI World Dental Federation and the Dental Association of Thailand (DAT).

Delegates who have registered for the Congress are eligible to receive continuing education points by attending scientific sessions throughout the congress. Certificates will be available for download after the congress.

FDI designates this activity for 9.5 continuing education credits
- Main scientific sessions and Meet the experts: 1 credit per hour of lecture, max 6 per day per participant.
- Maximum number of CE credits over the whole congress per participant: 24

Concerns or complaints about a CE provider may be directed to the provider or to ADA CERP at www.ada.org/cerp. It is the policy of FDI to ensure balance, independence, objectivity, and scientific rigor in all its sponsored scientific and educational programs. Faculty must disclose any financial relationships with a commercial interest that might affect the content of their presentation. (see page 169)
General Information

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Tel: +662 726 1999, +662 366 9797 Fax: +662 726 1919
Web: www.bitec.co.th

WIFI Access
Username: FDI2015Bangkok
Password: welovefdibangkok

Transportation

BTS
Bang Na Station (Exit 1), 10 minute-walk on the skyway to the event hall. A shuttle service that transports passengers from the Sukhumvit road entrance to exhibition halls is also available.

By car
15 minutes drive from the Suvarnabhumi International Airport
Directly linked by the expressway to the center of business district (10 km)
Links the outer ring road to extended parts around the Bangkok (7 km away from Event hall)

By bus
Entrance 1,2 can be reached by bus number 38, 46, 46A, 48, 132, 133, 139, 180, 522, 522A along Bangna-Trad road (Km 1)
Entrance 3 can be reached by bus number 2, 23, 45, 102, 116, 142, 507, 508, 511, 513, 536, 544, 552A along Sukhumvit road

By taxi
For convenient and comfort, taxi service can be hired from anywhere in the Bangkok area to the event hall. Taxi service from event hall to other areas is also available at drop-off area in front of EH-103

Currency
The Thai currency is called “Baht”. One baht is divided into 100 Satang. Coins consist of 25 Satang, 50 Satang, one Bath, 2 Bath, 5 Bath and 10 Bath. Bank notes are in 20 (green), 50 (blue), 100 (red), 500 (purple) and 1,000 (gray) baht. Currency exchange counters are available at the airport in and out of the arrival hall. Exchange rate at the airport is generally similar to exchange counters in town. The rates may be a bit better than that in hotels. Major credit cards such as American Express, Diners Club, Master and Visa are wildly used and accepted. 3-5 percent additional charge may be applied in some stores. Please check with the stores before using.

Office hours
Most commercial concerns in Bangkok operate on a five-day week, usually from 8.00 a.m. to 5.00 p.m. Many stores open seven days a week from 10.00 a.m. to 10.00 p.m. Government offices are generally open between 8.30 a.m. and 4.30 p.m. with a noon to 1.00 p.m. lunch break, Mondays to Fridays except on public holidays. Banks are open Mondays to Fridays from 9.00 a.m. to 3.30 p.m. except on public holidays. Electricity: 220 Volt

Time zone
The time in Thailand is seven hours ahead of Greenwich Mean Time (GMT+7-Bangkok).

Mobile phone and mobile internet/SIM card.
There are 3 major mobile service operators in Thailand - AIS, DTAC and TRUEMOVE-H. There are 3G and LTE for mobile internet. Prepaid SIM cards are available at the arrival hall of the airport and available at 7-eleven or other convenient stores. For the security, buying a pre-paid SIM card may require passport for SIM card registration. Please check for the cellular band compatibility before buying SIM card. (AIS - 900, 1,2100 Mhz., DTAC - 850, 1,800, 2,100 Mhz., TRUEMOVE-H - 850, 2,100 Mhz.)
Social Programme

Opening Ceremony and Welcome Reception

Date: 22nd September 2015
Time: 5.30 PM – 6.00 PM
Location: EH 106, EH 105

Thai Night

Join us on this spectacular evening as we journey through the renowned legends of Thailand. Let us take your taste buds on an exciting adventure of Thai cuisine, as authentically as the way locals would have them. Let us also present you with Thailand’s festivals and regional diversity through various cultural shows that are here to guarantee your delight. All this while enjoying the world’s famous sight and sound of the Grand Palace and the Chao Phraya river.

Date: 24th September 2015
Time: 6.30 PM – Welcome drink
7.30 PM – Dinner
Location: Chomwang Hall, Royal Thai Navy Club
Cost: 80 $
Banquet: Seating

Gala Dinner

A long-established tradition at the Annual World Dental Congress, Gala Dinner is one of the finest nights to witness with fantastic entertainment and delicacies. The event provides a perfect occasion for sector to be together under one roof, to build beneficial relationship with fellow colleagues and do some great opportunity to network.

Date: 23rd September 2015
Time: 6.30 PM – Welcome drink
7.30 PM – Dinner
Location: Grand Ballroom, Mandarin Oriental Hotel
Cost: 130 $
Banquet: Seating
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