



EAO))) CONGRESS

EAO-CONGRESS.COM

PROGRAMME

STOCKHOLM SEPTEMBER 24-26, 2015

THE EAO 24TH ANNUAL SCIENTIFIC
MEETING IN MEMORY OF
PROFESSOR PER-INGVAR BRÅNEMARK



CHALLENGES IN IMPLANT TREATMENT

In collaboration with:

Danish Academy of Periodontology
Danish Society of Oral and Maxillofacial Surgery
Danish Society of Oral Implantology
Danish Society of Periodontology
Finnish Association of Oral and Maxillofacial Surgeons
Finnish Society of Periodontology
Finnish Dental Society, Division of Implantology

Norwegian Society for Prosthetic Dentistry
Norwegian Society of Periodontology
Scandinavian Association of Oral and Maxillofacial Surgeons
Scandinavian Society of Periodontology
Swedish Association of Oral & Maxillofacial Surgery
Swedish Periodontal Society
Swedish Society of Prosthodontics

EAO)))
EUROPEAN ASSOCIATION FOR OSSEointegration



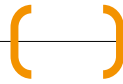
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In collaboration with:

	Danish Academy of Periodontology		Norwegian Society for Prosthetic Dentistry
	Danish Society of Oral and Maxillofacial Surgery		Norwegian Society of Periodontology
	Danish Society of Oral Implantology		Scandinavian Association of Oral and Maxillofacial Surgeons
	Danish Society of Periodontology		Scandinavian Society of Periodontology
	Finnish Association of Oral and Maxillofacial Surgeons		Swedish Association of Oral & Maxillofacial Surgery
	Finnish Society of Periodontology		Swedish Periodontal Society
	Finnish Dental Society, Division of Implantology		Swedish Society of Prosthodontics

WELCOME TO STOCKHOLM



Respected colleagues and friends,

It is our great honour and privilege to welcome you to the 2015 EAO Scientific Meeting in Stockholm.

In conjunction with the Scientific Committee and the EAO Board, we have put together a programme that we hope will be both thought-provoking and highly relevant to your daily practice.

Our clinical work today is based on half a century's experience of placing osseointegrated implants. The programme for the meeting in Stockholm reflects the progress we have made over the last 50 years, while at the same time focusing on current and emerging techniques. There is a strong emphasis on practical, clinical messages that you can use in your daily practice. We hope this combination of historical perspective and cutting-edge techniques will ensure there is something of relevance for everyone.

During the 2014 EAO meeting in Rome, a new format was introduced. The meeting in Stockholm will build on this, with the addition of extra features designed to facilitate the learning experience and engage participants throughout.

A scientific meeting is of course much more than just the scheduled sessions. It is also an opportunity to share views with colleagues and to socialise. We very much hope you will consider bringing your partner or family with you to Stockholm. The city has a huge amount to offer, and we are certain that you and your guests will go home with memories to treasure.

We look forward to meeting you in Stockholm



Björn Klinge
Chair of the Scientific
Committee



Ann Wennerberg
Co-Chair of the
Scientific Committee

CONGRESS CHAIRMEN 2015

Chairman

Björn Klinge, *(Sweden)*

Co-Chairman

Ann Wennerberg, *(Sweden)*

SCIENTIFIC COMMITTEE

Tord Berglundh, *(Sweden)*

Ronald Jung, *(Switzerland)*

Jose Manuel Navarro, *(Spain)*

Irena Sailer, *(Switzerland)*

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Søren Schou, *(Denmark)*

Tommie Van De Velde, *(Belgium)*

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Lars Schropp, *(Denmark)*

Hendrik Terheyden, *(Germany)*

Daniel Thoma, *(Switzerland)*

Ann Wennerberg, *(Sweden)*

Jörg Wiltfang *(Switzerland)*

CONGRESS OVERVIEW

THURSDAY, 24 TH					FRIDAY, 25 TH				
	VICTORIA HALL	K1	A2	A3	K11	VICTORIA HALL	K1	A2	A3
08:00									
09:00						ARENA 2 Challenges for implant treatment of the ageing population	IMPLANTS IN THE FUTURE 1 CAD-CAM, precision of fit	ORAL COMMUNICATION	
10:00		SATELLITE INDUSTRY SYMPOSIA			Basic Research			Clinical Research, Surgically related	
11:00		Organized by GEISTLICH	Organized by OSSTELL	Organized by MIS IMPLANT					
12:00						COFFEE BREAK			
13:00	WELCOME ADDRESS Osseointegration and brain control prosthesis					New cells in old bodies			
14:00	MAIN SESSION 1 50 years of clinical osseointegration					MAIN SESSION 2 Consensus Conference 2015 Report			
15:00					LUNCH BREAK				
16:00						ARENA 3 To learn from complications	IMPLANTS IN THE FUTURE 2 Virtual planning 3D-printing and more	ORAL COMMUNICATION	
17:00					Clinical Research, Prosthetically oriented			Clinical Research, Peri-implant Biology	
18:00						COFFEE BREAK			
19:00	ARENA 1 Tissue reconstruction / regeneration	ORAL COMMUNICATION				PARALLEL SESSION 1 Treatment and outcome challenges			JUNIOR COMMITTEE SESSION
20:00		Basic Research	Clinical Research, Surgically related	Clinical Research, Prosthetically oriented	Clinical Research, Peri-implant Biology				
21:00						SATELLITE INDUSTRY SYMPOSIA			
		Organized by DENTSPLY IMPLANTS	Organized by STRAUMANN	Organized by ZIMMER BIOMET		Organized by NOBEL BIO CARE	Organized by 3-SHAPE		
	EAO Members' and Speakers' Dinner								

EAO ASSOCIATION PRESENTATION



HISTORY

The European Association of Osseointegration (EAO) is a non-profit organisation founded in 1991.

It was formed as an international, interdisciplinary and independent science based forum for all professionals interested in the art and science of osseointegration and has now become one of the most highly regarded forums for osseointegration in the world.

Bridging the gap between science and clinical practice, the EAO aims to improve the quality of patient care as the leading voice in the field of implant dentistry in Europe.

MISSIONS

- To promote and facilitate clinical applications of osseointegration for the benefit of patients throughout the world.
- To promote the advancement of treatment methods in reconstructive surgery and prosthetic rehabilitation based on the principles of osseointegration and related disciplines.
- To promote and initiate research into improved clinical procedures for rehabilitation as a consequence of osseointegration.

- To promote international exchange of knowledge and understanding of the techniques and research in the field of osseointegration and related disciplines.
- To promote the publication of research findings and other materials as part of continuing education for the benefit of members and interested organisations.



For further information about the EAO and benefits of membership, visit the EAO website: www.eao.org

EAO BOARD OF DIRECTORS (2014–2015)

PRESIDENT

Björn Klinge (*Sweden*)

PRESIDENT ELECT

Alberto Sicilia Felechosa (*Spain*)

PAST PRESIDENT

Pascal Valentini (*France*)

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Luca Cordaro (*Italy*)

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Ronald Jung (*Switzerland*)



EAO COUNCIL

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Christoph Hämmerle
Friedrich Neukam
Franck Renouard



EAO OFFICE

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EMAIL : eao@clq-group.com

Discover the benefits of EAO membership



Join the EAO and become part of Europe's leading organisation for promoting clinical excellence and patient care in implant dentistry.

As an EAO member, you will receive a range of benefits including a discounted registration fee for the annual scientific meeting.

Other benefits include:

- free access to the online edition of Clinical Oral Implants Research
- inclusion of your practice address in the EAO's online 'search for a dentist' tool, designed to help increase patient referrals
- exclusive use of a series of online tools developed by the EAO to help you increase case acceptance for implant treatment
- a printed copy of Inspyred, the EAO members' magazine
- discounted rates to attend some of the EAO's education activities

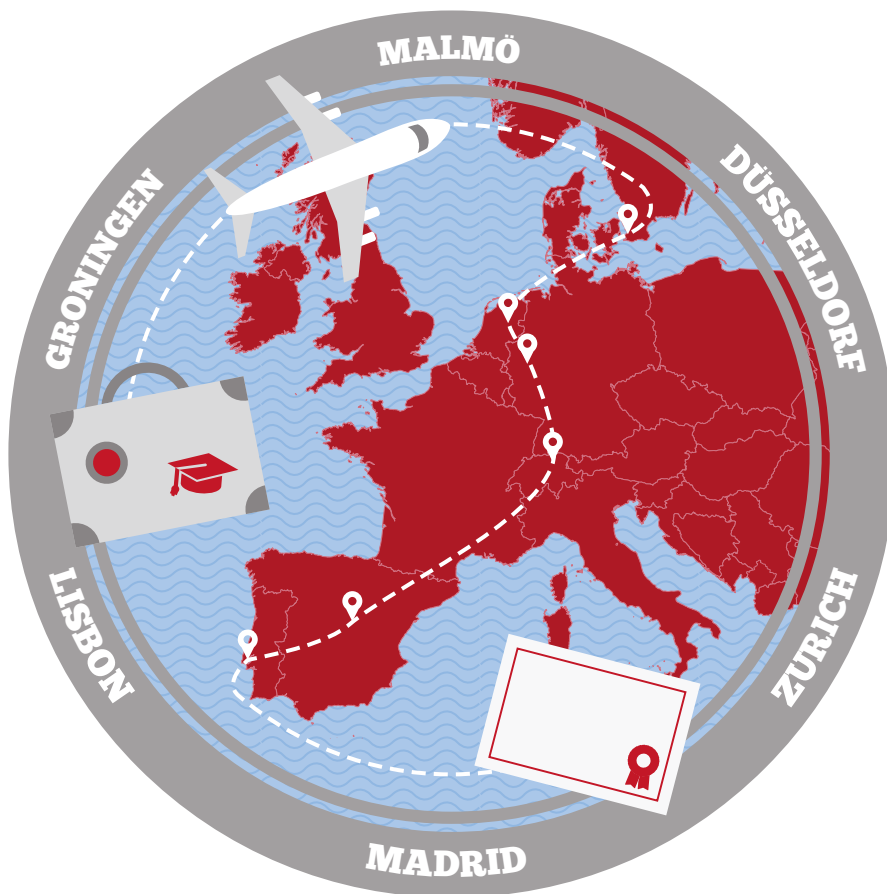


To join, visit www.eao.org, email eao@clq-group.com or phone +33 1 44 64 15 32

Enrol for the EAO Education Programme



A unique opportunity to experience hands-on training at some of Europe's leading university dental departments



- Faculty of Odontology, Malmö University
- University Medical Center of Groningen, Dept. Oral Maxillofacial Surgery
- University of Zurich, Clinic for Fixed and Removable Prosthodontics and the Unit for Oral Implantology
- University Hospital Düsseldorf, Dept. Oral Surgery
- Complutense University of Madrid, Department of Stomatology III
- Lisbon University, School of Dental Medicine

The European Association for Osseointegration is launching a new education programme offering a unique combination of educational benefits. These include live surgery modules at some of Europe's top universities and online mentoring between hands-on sessions. Places are limited, so register your interest today.

Come and visit the EAO stand for further information.

(SCIENTIFIC PROGRAMME)

INVITED COUNTRY: CHINA

In recognition of the many delegates who came to the EAO meeting from outside Europe, the Congress Committee has introduced a guest country parallel session in 2014. This provides a platform for clinicians from the guest country to simultaneously attend an international event, and demonstrate the level of their profession and their research to a European audience. Simultaneous translation will be available in Chinese in the Victoria Hall during the 3 days of the congress.

IN 2015, THE EAO IS PROUD TO WELCOME CHINA AS ITS GUEST COUNTRY.



WEDNESDAY, 23RD SEPTEMBER (EVENING)

WELCOME RECEPTION AT THE STOCKHOLM CITY HALL

The Mayor of Stockholm is pleased to welcome all congress delegates to mark the opening of the 24th annual meeting of the EAO.

Due to limited seat, pre-registration is highly recommended.

Delegates who have registered for the welcome reception will receive an official invitation by post. This invitation must be presented at the entrance.

(Doors open from 18:30)

Official welcome by the Mayor of Stockholm at 19:00

Stockholm City Hall

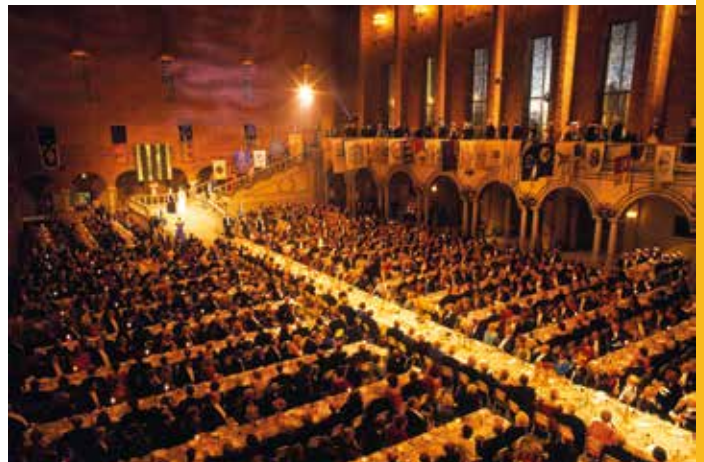
Hantverkargatan 1
105 35 Stockholm

19:00 / 21:00

Stockholm City Hall, with its spire featuring the golden Three Crowns, is one of the most famous silhouettes in Stockholm. It is one of the country's leading examples of national romanticism in architecture. The City Hall was designed by the architect Ragnar Östberg, was built from eight million bricks. The 106 metres tower features the three crowns, which is the Swedish national coat of arms, at its apex. Behind the magnificent facades are offices and session halls for politicians and officials, as well as splendid assembly rooms and unique works of art. Stockholm's municipal council meets in Rådssalen, the Council Chamber.

The great Nobel banquet is also held in City Hall. After dinner in Blå hallen, the Blue Hall, Nobel Prize laureates, royalty and guests dance in Gyllene salen, the Golden Hall, with its 18 million gold mosaic tiles.

Furthermore, every year, all eyes are on this room in Sweden for the announcement of the Nobel Prize. During this reception you will be welcomed in the Blue Hall, where the banquet is served after the Nobel Prize award.



THURSDAY SEPTEMBER, 24TH

IN THE FOLLOWING PAGES, NUMBER IN FRONT OF THE LECTURE TITLE LIKE [001] REFERS TO THE ABSTRACT NUMBER PUBLISHED IN THE COIR SUPPLEMENT AND ON THE CONGRESS MOBILE APP.

☉ 10:00 / 12:00

SYMPOSIA SESSIONS

SATELLITE INDUSTRY SYMPOSIA (see detail page 40)

☉ 12:30 / 12:35 (VICTORIA HALL)

OFFICIAL SESSION

WELCOME ADDRESS

Björn Klinge, President of EAO 2014-2016

☉ 12:35 / 13:00 (VICTORIA HALL)

OUT OF THE BOX SESSION 1

CHAIRPERSONS

DAVID HARRIS

David Harris is a specialist oral surgeon and Clinical Director of Blackrock Clinic Dental Specialties in Dublin, Ireland.

RENHILDE JACOBS

Expert in Dentomaxillofacial Radiology, with focus on clinically applied CBCT research (80 publications) & bone quality research.

SPEAKER

(010) OSSEOINTEGRATION AND BRAIN CONTROL PROSTHESIS

Rickard Brånemark (Sweden)

Orthopaedic surgeon with more than 20 years experience working with osseointegrated amputation prostheses (Sweden).

Osseointegration has been used in the treatment of amputees for more than 20 years in different parts of the world. An overview of this work will be presented including indications for treatment, surgical technique, complications, benefits and future possibilities. More recently, osseointegration was used in conjunction with implanted electrodes to improve the control of a robotic arm in a transhumeral amputee.

☉ 13:00 / 14:15 (VICTORIA HALL)

MAIN SESSION 1

50 YEARS OF CLINICAL OSSEOINTEGRATION – THE EARLY CONTRIBUTIONS AND CURRENT EFFECTIVENESS IN IMPLANT DENTISTRY

CHAIRPERSONS

DAVID HARRIS

David Harris is a specialist oral surgeon and Clinical Director of Blackrock Clinic Dental Specialties in Dublin, Ireland.

RENHILDE JACOBS

Expert in Dentomaxillofacial Radiology, with focus on clinically applied CBCT research (80 publications) & bone quality research.

SPEAKERS

(001) PER-INGVAR BRÅNEMARK CONCEPT

Thomas Albrektsson (Sweden)

Tomas Albrektsson is professor emeritus of the Biomaterials department of Gothenburg University and visiting professor of the department of Prosthodontics, Malmö University Sweden

Early development of oral implants in Gothenburg Sweden under the leadership of P-I Brånemark built on the hypothesis that the titanium devices were directly anchored in bone without any interposed soft tissue. However, first with the advent of Donath's cutting and grinding technique was it possible to demonstrate that what was now named osseointegration really occurred around oral implants. The original discovery of osseointegration happened in 1962 and the first patient was treated 3 years later in 1965. Branemark's first oral implant paper was published in 1969. Clinical results were initially rather poor, but started improving during the 1970s. We were not aware of the works by Schulte and by Schroeder on similarly bone anchored oral implants until 1981, about 5 years after their first publications.

(002) ANDRÉ SCHROEDER CONCEPT

Daniel Buser (*Switzerland*)

Oral Surgeon and implant specialist from the University of Bern. Heavily involved in research and teaching since roughly 30 years.

Late Prof. André Schroeder was an endodontist at the University of Bern and started in the late 1960's to examine various implant materials in animal studies.

When he established a close collaboration with Straumann, at that time a MedTech company in the field of fracture treatment, they developed various kinds of prototype titanium implants such as hollow-cylinders and solid screws with a titanium plasma-sprayed surface (TPS). As published in the Swiss Dental Journal, Schroeder et al. were the very first to demonstrate implants with a direct bone anchorage in the jaws with non-decalcified histologic sections. He called this observation functional ankylosis. In addition, these implants healed non-submerged. The clinical testing of these one-piece implants started in 1974. A first major revision was made in 1986 by providing also two-piece implants, but still with a non-submerged approach.

Another major contribution of Prof. Schroeder was the establishment of the ITI in 1980, and the ITI Foundation in 1988 as a research foundation. As of today, this foundation has provided research grants for more than 45 Mio. US\$. Today, the main activities of the ITI are in Education. Attractive educational offerings for clinicians has made the ITI the world's largest implant association with more than 15'000 members.

(003) WILLY SCHULTE CONCEPT

Joerg Meyle (*Germany*)

Professor of Periodontology, Specialist of Periodontology and Implantology, Oral Surgeon.

In 1975 W. Schulte and G. Heimke developed the concept of the Tuebingen immediate implant. The design was a polycrystalline aluminum oxide stepped ceramic cylinder, which was inserted immediately after tooth extraction and preparation of the bone cavity. In a series of animal experiments this concept was successfully tested and then introduced into clinical practice. In the 80's hundreds of patients were successfully treated and under regular maintenance followed for many years in order to demonstrate the strengths but also the weaknesses of this implant type. Many basic investigations demonstrated the unique properties of endosseal implants in the oral cavity. As a consequence out of the previous investigations and experiences the Frialit-II implant design was developed and then also successfully introduced into clinical practice. Willi Schulte's visionary ideas contributed considerably to our current understanding and development in oral implantology.

(004) EFFECTIVENESS IN IMPLANT DENTISTRY

Jan Derks (*Sweden*)

Jan Derks is a dentist and research graduate working in Gothenburg, Sweden.

Research on dental implants has traditionally focused on a single outcome: implant survival. More recently, other parameters such as patient-reported outcome measures and the occurrence of biological and technical complications have moved into focus. Our understanding, however, is still limited and based on reports from small and selected patient samples. This presentation will report findings from a large, nation-wide project evaluating the effectiveness of implant therapy. Results on patient-reported outcomes, implant loss, and peri-implantitis will be discussed.

☉ 14:45 / 16:15 (VICTORIA HALL)

ARENA 1

TISSUE RECONSTRUCTION/REGENERATION

CHAIRPERSONS

SØREN SCHOU

Dr Søren Schou is Professor at the Department of Oral and Maxillofacial Surgery, School of Dentistry, University of Copenhagen, Denmark.

DAVID NISAND

He is the Scientific President of the French Society of Periodontology and Oral Implantology, and a member of the Communication Committee of the EAO.

SPEAKERS

(013) WHAT THE DENTIST NEEDS TO KNOW ABOUT TISSUE RECONSTRUCTION/REGENERATION**Luca Cordaro** (*Italy*)

Head of a department of periodontology and prosthodontics Dr Cordaro has expertise in both the surgical and restorative phases of implant dentistry. He is author of scientific papers and books and is daily involved in the treatment of extensive cases that require tissue augmentation.

The implementation of the concept of prosthetic driven implant placement has enormously increased the need for tissue augmentation at implant sites. The implant-supported prosthesis should have the ideal esthetic and functional prerequisites and thus placed in the desired position with the required hard and soft tissue support. The dentist, responsible for the overall treatment plan of the patient, should be informed about all treatment options and of the risks connected with the various tissue augmentation modalities.

The dentist should also be aware of the correct diagnostic pathway that based on a combination of prosthetic and radiological information will lead to an evaluation of the treatment steps needed to achieve the planned ideal restoration.

Moreover the dentist should be aware of the possible prosthetic compromises to overcome suboptimal implant placement and the esthetic and functional risks connected with the possible prosthetic solutions.

The combination of these information will allow the dentist to drive the patient through an individualized treatment plan that considers the specific needs and expectations.

(014) EXTRACTS FROM THE VIDEO "CELL TO CELL COMMUNICATION"**Bernd Stadlinger** (*Switzerland*)

Bernd Stadlinger is senior physician and specialist in OMF surgery at the Clinic of Oral Surgery, University of Zurich, Switzerland.

The vast spread of modern digital media strongly influenced our means of communication and gave new opportunities to university teaching and education. This presentation introduces the 3D-computeranimated film series "Cell-to-Cell Communication". This series of currently four computer animated films aims at the illustration of cell biological processes that occur prior, during and after dental therapies. The first film "Osseointegration" illustrates the biological processes of peri-implant bone formation. The second film "Inflammatory reaction" visualizes the role of the immune system in relation to periodontitis. The third film "Periodontal Regeneration" illustrates the embryological development of the teeth, cellular processes during orthodontic tooth movement and trauma or periodontitis induced changes in the cementum. The newest film "Oral Health and Systemic Health" leaves the oral cavity and describes processes leading to atherosclerosis and diabetes. In order to combine different imaging techniques, scanning electron microscopic images of relevant cells are integrated into the films. The camera perspective changes in between different image planes: - the macroscopic plane of the human eye, - the microscopic plane of cells, and the submicroscopic plane of proteins, functioning as mediators between cells. This enables a better understanding of three-dimensionality and the timeline of cellular processes. Modern dental medicine is influenced by various medical specialties and natural sciences, e.g. internal medicine, immunology, material science, pharmacology and many more. Aim of this interdisciplinary film project is integrate new media into teaching for the illustration of biological processes in order to facilitate understanding and create a fascination for science.

(015) REGENERATION/RECONSTRUCTION OF PERIIMPLANT SOFT TISSUES**Thomas Linkevicius** (*Lithuania*)

Tomas Linkevicius lectures internationally on topics of soft peri-implant tissues and prosthetic treatment of dental implants.

The role of soft tissue thickness is well established in aesthetic treatment. It is known that thin soft tissues present an unfavorable situation for implant placement, crestal bone stability and subsequent prosthetic treatment. Therefore, some guidelines how to successfully reconstruct soft tissue thickness in thin tissue biotype is a necessity for satisfactory clinical outcomes.

(016) TISSUE REGENERATION VIA THE USE OF L-PRF**Marc Quirynen** (*Belgium*)

Prof. Marc Quirynen is full-professor at the Faculty of Medicine of the Catholic University, Leuven, Belgium

Andy Temmerman (*Belgium*)

He is a doctoral researcher & clinical consultant at the KULeuven and works part-time in a private clinic focussing on periodontology and implant dentistry.

The active search for natural, patient derived additives that can promote bone & soft tissue healing, and that can easily be applied during surgery remains a hot topic. The use of Platelet aggregates has been very controversial in the past (and the present). Especially the 1st generation (PRP - Platelet Rich Plasma) had major drawbacks: it was expensive, needed bovine trombin, and several difficult preparation protocols had to be applied. The latter had its impact on the inconsistent outcome. Most of these problems were overcome by

the 2nd generation aggregates (PRF - Platelet Rich Fibrin), including an easy preparation, minimal costs and several inherent advantages. This lecture will give an overview of possible treatment options for L-PRF in oral surgery and implantology and include recent research.

☉ 14:45 / 16:15 (ROOM K1)

ORAL COMMUNICATIONS

BASIC RESEARCH

CHAIRPERSONS

TOMAS ALBREKTSSON

Tomas Albrektsson is professor emeritus of the Biomaterials department of Gothenburg University and visiting professor of the department of Prosthodontics, Malmo University Sweden

MARIANO SANZ

Professor and Chairman of Periodontology, University Complutense of Madrid, Spain

- (100) **BIOMECHANICAL ANALYSIS AND OSTEOGENIC GENE EXPRESSION ON POROUS TANTALUM IMPLANTS PLACED IN A GAP HEALING MODEL**
Luiz Meirelles*, Cindy Dodo, Gustavo Mendonca, David Fraser, Elisa Sartori, Paul Funkenbusch
- (101) **PERIOSTEAL DISTRACTION: HISTOLOGICAL AND MICRO-CT ANALYSIS**
Nikola Saulacic*, Ken Nakahara, Maiko Haga-Tsujimura, Kosaku Sawada, Tateyuki Ilzuka, Paolo Scolozzi
- (102) **EFFECTS OF BOVINE LACTOFERRIN IN SURGICALLY CREATED BONE DEFECTS ON BONE REGENERATION AROUND IMPLANTS**
Ulas Gormez*, Mehmet Kurkcu, Mehmet Emre Benlidayi, Kezban Ulubayram, Yasar Sertdemir, Kenan Daglioglu
- (103) **HISTOLOGY ANALYSIS AND PROTEOMICS EXPRESSION IN EARLY AND LATE PERIODS OF BONE REGENERATION IN HEALTHY AND OSTEOPOROTIC-LIKE CONDITIONS**
Elena Calciolari*, Nikos Mardas, Xanthippi Dereka, Pavlos Lelovas, Athanasios Anagnostopoulos, Nikolaos Kostomitsopoulos, Aviva Petrie, George Th Tsangaris, Nikolaos Donos
- (104) **PERI-IMPLANTITIS MICROBIOME VARIABILITY ACROSS DIFFERENT DISINFECTION PROTOCOLS, IMPLANT SURFACES AND THEIR RELATIONSHIP WITH BIOCOMPATIBILITY DYNAMICS**
Vanessa Sousa*, David Spratt, Iman Hassan, Nick Walters, Janet Sutherland, Nikos Mardas, Nikolaos Donos
- (105) **OSSEOINTEGRATION KINETICS OF TIZR ALLOY IMPLANTS: A HISTOLOGICAL, BIOMECHANICAL, AND GENE EXPRESSION EVALUATION IN VIVO**
Silvia Galli*, Ryo Jimbo, Yoshihito Naito, Simon Berner, Michel Dard, Ann Wennerberg
- (106) **DENTAL IMPLANTS AND ORAL BISPHTHONATES 3-YEAR RESULTS OF A MULTICENTER PROSPECTIVE OBSERVATIONAL STUDY**
Marco Tallarico*, Erta Xhanari, Silvio Mario Meloni, Luigi Canullo

☉ 14:45 / 16:15 (ROOM A2)

ORAL COMMUNICATIONS

CLINICAL RESEARCH, SURGICALLY RELATED

CHAIRPERSONS

RONALD JUNG

Head Division of Implantology and Vice Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science, University of Zurich.

- (114) **APPLICATION OF XENOGRAFTS FOR RIDGE PRESERVATION IN POSTERIOR SITES: A RANDOMIZED CONTROLLED CLINICAL TRIAL**
Chi Lei*, Ye Lin, Hui Wu

- (115) **CLINICAL AND RADIOGRAPHIC EVALUATION OF ONE-STAGE LATERAL- VERSUS TRANSALVEOLAR SINUS FLOOR ELEVATION IN SEVERELY RESORBED SITES USING CALCIUM PHOSPHOSILICATE PUTTY**
Udatta Kher*, Siddharth Shanbhag, Andreas Stavropoulos
- (116) **DELAYED IMPLANT PLACEMENT FOLLOWING RIDGE PRESERVATION OR SPONTANEOUS HEALING IN POST-EXTRACTION SITES: A RANDOMIZED CONTROLLED CLINICAL TRIAL**
Daniele Cardaropoli*, Lorenzo Tamagnone, Alessandro Roffredo, Lorena Gaveglio
- (117) **SHORT IMPLANTS VERSUS LONGER IMPLANTS IN VERTICALLY AUGMENTED POSTERIOR MANDIBLES: A RANDOMISED CONTROLLED TRIAL WITH 5-YEAR AFTER LOADING FOLLOW-UP**
Pietro Felice*, Carlo Barausse, Roberto Pistilli, Carlo Prati, Maria Giovanna Gandolfi, Marco Esposito
- (118) **EVALUATION OF THE AESTHETICS OF MAXILLARY SINGLE IMPLANTS PLACED WITH OR WITHOUT A SOFT TISSUE GRAFT: PRELIMINARY RESULTS**
Elise Zuiderveld*, Laurens den Hartog, Arjan Vissink, Gerry Raghoobar, Henny Meijer
- (119) **FLAPLESS POST-EXTRACTIVE IMPLANTS WITH OR WITHOUT SOFT TISSUE AUGMENTATION IN AESTHETIC AREA: A 5-YEAR RANDOMIZED CLINICAL TRIAL**
Leonardo Amorfini*, Stefano Storelli, Eugenio Romeo
- (120) **IMMEDIATE SINGLE IMPLANT TREATMENT: 1 YEAR RESULTS OF A RANDOMIZED CONTROLLED TRIAL IN THE AESTHETIC ZONE**
Kirsten Slagter*

🕒 14:45 / 16:15 (ROOM A3)

ORAL COMMUNICATIONS

CLINICAL RESEARCH, PROSTHETICALLY ORIENTED

CHAIRPERSONS

MATS TRULSSON

Professor, PhD, DDS, Specialist in Prosthetic dentistry. Head of Department of Dental Medicine at Karolinska Institutet, Sweden.

MARIO GROISMAN

Oral implantology specialist, Barra da Tijuca, Brazil.

- (128) **INDICATORS FOR LOSS OF ATTACHMENT AROUND IMPLANTS: A 12-YEAR LONGITUDINAL STUDY**
Melle Vroom*, Mark Timmerman, Ubele van der Velden
- (129) **CLINICAL EVALUATION OF CONNECTION TYPE AND RESTORATION VERTICAL HEIGHT OF ZIRCONIA ABUTMENTS: A RETROSPECTIVE STUDY ON 965 ABUTMENTS WITH 10-YEAR FOLLOW-UP**
Giacomo Fabbri*, Mauro Fradeani, Gianluca Delleficorelli, Marco De Irenzi, Fernando Zarone, Roberto Sorrentino
- (130) **INFLUENCE OF PLASMA CLEANING PROCEDURE ON THE INTERACTION BETWEEN SOFT TISSUE AND ABUTMENTS. A RC HISTOLOGIC STUDY**
Berta Garcia*, Luigi Canullo, David Penarrocha, Sara Perez, Fabio Camacho-Alonso, Ugo Covani
- (131) **PLATFORM SWITCHING VERSUS PLATFORM MATCHING: THREE-YEAR RESULTS FROM A PROSPECTIVE RANDOMIZED-CONTROLLED MULTICENTER STUDY**
Salomao Rocha*, Wilfried Wagner, Jörg Wiltfang, João Tondela, Maximilian Moergel, Eleonore Behrens, Pedro Nicolau, Ana Messias, Fernando Guerra
- (132) **THE INFLUENCE OF CORTICAL BONE PROPORTION ON MARGINAL BONE LOSS OF SINGLE SHORT IMPLANTS (6MM) PLACED IN THE POSTERIOR REGION: 3-YEAR RESULTS**
Danilo Renato Schneider*, Eduardo Aydos Villarinho, Gustavo Frainer Barbosa, Diego Fernandes Triches, Fernando Rizzo Alonso, Luis André Mezzomo, Eduardo Rolim Teixeira, Rosemary Sadami Arai Shinkai
- (133) **DIGITAL IMPRESSIONS OF DENTAL IMPLANTS: ACCURACY OF 2 INTRA-ORAL SCANNERS**
Stefan Vandeweghe*
- (134) **CLINICAL EVALUATION OF MULTI-UNIT IMPLANT RESTORATIONS ACCURACY FABRICATED**

FROM CONVENTIONAL AND DIGITAL IMPRESSIONS

Vygandas Rutkunas*

☉ 14:45 / 16:15 (ROOM K11)

ORAL COMMUNICATIONS

CLINICAL RESEARCH, PERI-IMPLANT BIOLOGY

CHAIRPERSONS

JOERG MEYLE

Professor of Periodontology, Specialist of Periodontology and Implantology, Oral Surgeon, Germany.

TORD BERGLUNDH

Professor and Chairman, Department of Periodontology, Sahlgrenska Academy at University of Gothenburg, Sweden

- (142) CRESTAL BONE CHANGES IN SIMILAR MACRO GEOMETRICAL IMPLANTS WITH THE IMPLANT-ABUTMENT CONNECTION AT THE CRESTAL BONE LEVEL OR 2,5 MM ABOVE
Paul Van Eekeren*
- (143) ALUMINA REINFORCED ZIRCONIA IMPLANTS USED FOR SINGLE CROWN AND BRIDGE RECONSTRUCTIONS: 3-YEAR RESULTS FROM A PROSPECTIVE COHORT INVESTIGATION
Benedikt Spies*, Marc Balmer, Kirstin Vach, Ralf-Joachim Kohal
- (144) FIVE YEAR RESULTS OF A RCT COMPARING THE OUTCOME OF PLATFORM-SWITCHING TO NON-PLATFORM-SWITCHING OF 8.5 MM IMPLANTS IN THE POSTERIOR REGION
Gerdien Telleman*, Gerry Raghoobar, Arjan Vissink, Henny Meijer
- (145) OSTEOTOME SINUS FLOOR ELEVATION WITHOUT GRAFTING: A 10 YEAR CLINICAL AND RADIOLOGICAL SINUS ASSESSMENT
Semaan Abi Najm*, Marc El Hage, Nathalie Nurdin, Mark Bischof, Rabah Nedir
- (146) EFFECTS OF FUNCTIONALIZED SILOXANE-GELATIN HYBRID COATINGS ON THE PROTEIN ADSORPTION AND OSTEOGENIC DIFFERENTIATION OF HMSC
Maria Martinez-Ibañez*, Sanjeeva N. Murthy, Yong Mao, Julio Suay, Marilo Gurruchaga, Isabel Goñi, Antonio Coso, Joachim Kohn
- (147) SURGICAL REGENERATIVE THERAPY OF PERI-IMPLANTITIS DEFECTS ON FOUR DIFFERENT IMPLANT SURFACES: A 1-YEAR FOLLOW-UP PROSPECTIVE STUDY
Daniele Cardaropoli*, Lorenzo Tamagnone, Lorena Gaveglio
- (148) INCIDENCE OF PERI-IMPLANT MUCOSITIS AND PERI-IMPLANTITIS IN PRIVATE OFFICE
F. Peter Carls*, Marco Bernasconi, Thomas Lambrecht, Francesco Carinci, Mark Lawrence, Gareth Lewis, Nicola Zitzmann

☉ 16:30 / 18:30

SYMPOSIA SESSIONS

SATELLITE INDUSTRY SYMPOSIA (see details page 40)



THURSDAY, 24TH SEPTEMBER (21:00)

EAO MEMBERS' AND SPEAKERS' DINNER AT THE VASA MUSEUM

Enjoy this special evening in Stockholm.

The Vasa is the only preserved seventeenth-century ship in the world, and a unique art treasure. More than 95 percent of the ship is original, and it is decorated with hundreds of carved sculptures.

The 69 metres-long warship Vasa sank on its maiden voyage in Stockholm in 1628, and was salvaged 333 years later in 1961. For nearly half a century the ship has been slowly and painstakingly restored to a state approaching its original glory. The three masts on the roof outside the specially built museum show the height of the ship's original masts. Today the Vasa Museum is the most visited museum in Scandinavia, with over one million visitors a year.

You will be welcomed with a cocktail and will then enjoy a visit to the entire museum.

After exploring the museum, you will experience a taste of Scandinavian cuisine, seated around the ship.



Please be informed that the museum's temperature is maintained at around 18°C to preserve the ship. You should come with comfortable clothes.

Don't miss this opportunity!

The Members' and Speakers' Dinner is reserved for registered EAO members and there is an additional fee of 50 €. Places are limited.

Vasa Museum

Galärvarvsvägen 14
115 21 Stockholm

Buses

Departing at 19.30 from Scandic Talk and departing at 20:15 from Radisson Blu Waterfront
Returning from 23.00 to Sheraton, Radisson Blu Waterfront and Scandic Talk

FRIDAY, 25TH SEPTEMBER

NUMBER IN FRONT OF THE LECTURER TITLE REFERS TO THE ABSTRACT NUMBER PUBLISHED IN THE COIR SUPPLEMENT

☉ 07:45 / 08:45

SYMPOSIA SESSIONS

INDUSTRY BREAKFAST SYMPOSIUM (see details page 43)

☉ 08:15 / 10:45

HANDS-ON SESSIONS

INDUSTRY HANDS-ON SESSIONS (see details page 42)

☉ 08:45 / 10:15 (VICTORIA HALL)

ARENA 2

CHALLENGES FOR IMPLANT TREATMENT OF THE AGEING POPULATION

CHAIRPERSONS

FLEMMING ISIDOR

Flemming Isidor, D.D.M., Ph.D., Dr. Odont., Professor; Section of Prosthetic Dentistry, Department of Dentistry, Aarhus University, Denmark

GIL ALCOFODARO

Dentist/Periodontist, Clinica Alcoforado, Lisbon, Portugal and EAO Board member since 2012

SPEAKERS

(017) BISPSPHONATES; A THREAT OR AN OPTION?

Per Aspenberg (Sweden)

Per Aspenberg is an orthopedic surgeon with a special interest in drug effects and pathophysiology regarding implants and fracture healing.

Bisphosphonates either bind to bone mineral or are quickly excreted. Normally, they don't enter cells and are therefore not toxic. When an osteoclast resorbs bone, it also ingests any bisphosphonate bound to it. This will inactivate the osteoclast, and thus reduce bone resorption.

When bone is infected, quick resorption will demarcate the infected area. This protection mechanism can be impaired if resorption is reduced by any potent antiresorptive, leading to spread of infection and established osteomyelitis (ONJ). This is sufficient to explain ONJ.

At implant insertion in bone, bisphosphonates reduce the resorptive response to the trauma without impairing the bone formation response, therefore acting as a "net anabolic". Local and systemic bisphosphonates have been shown to improve the early fixation of both knee and hip replacements.

Because bisphosphonates bind strongly to bone, local treatment in conjunction with implant insertion will stay local, and thus not impair the ability to delineate the site in case of infection.

We did a blinded controlled randomized trial of dental implants, coated with a protein layer loaded with bisphosphonates. The resonance frequency was 6.9 ISQ units higher for the coated implants compared to the controls ($p=0.0001$; Cohen's $d=1.3$). X-ray showed less bone resorption at the margin of the implant both at 2 months ($p=0.012$) and at 6 months ($p=0.012$). The patients have been followed for 5 years without complications.

Systemic antiresorptives may somewhat impair protection against osteomyelitis. Local bisphosphonates seem not to confer this risk, and improve implant fixation.

(018) NO TEETH, NO MONEY; WHAT TO DO IN THE ELDERLY PATIENT?

Martin Schimmel (Switzerland)

Martin Schimmel is head of the Division of Gerodontology at the University of Bern (Switzerland).

The prevalence of edentulism is already a scarce condition in high-income households in the US (Slade et al. 2014). It is projected to fall to 2.6% by 2050 and will be seen mostly in an older, economically deprived population. There is no doubt that this trend can be observed in most of the western world. What to do if the "average" edentulous patient is old, medically compromised, frail and poor? Should this vulnerable population be excluded from the benefits of implantology even if edentulous elders benefit the most of all

patient groups from the treatment? Some countries provide funds for implant-prosthesis for the edentulous through the national health insurance system (like the host-country of the 2015 EAO). Nevertheless, most governments ignore the evidence that the treatment, as suggested by the McGill consensus statement, is favourable in regard to biological, psychological and sociological aspects and shows a favourable cost-benefit ratio in the medium-term. Should implants be placed at all in elderly patients? What are the prerequisites and what are the specific considerations for the treatment? There are recent developments to simplify the procedures for providing complete removable prosthesis with CAD/CAM technology. They have the potential to drastically reduce chair-side time and laboratory costs. Also, with the advent of short and narrow diameter implants, minimally invasive surgical procedures become very popular in the treatment of elderly patients. Such treatments must always be part of on-going dental care approach, especially in frail elders.

(O19) MINIMAL NUMBER OF IMPLANTS IN THE UPPER JAW?

Anja Zembic (*The Netherlands*)

Dentist specialist of Reconstructive. Dentistry SSO / SSRD, Zurich, Switzerland

A high life expectancy and continuous population growth will increase the amount of elderly patients visiting the dental practice in future. As a consequence, there might be a higher rate of edentulous patients. The introduction of dental implants offers several treatment alternatives to conventional dentures and represents a huge improvement for those patients. By means of implant-supported overdentures the patient's quality of life significantly improved in terms of psychological factors, mastication, stability, comfort, speech, food choice and impact on social activities.

Still, the number of edentulous patients undergoing an implant treatment is rather small due to anxiety for surgical risks and costs. Therefore, it would be advantageous to offer the patient a minimal number of implants needed for a successful outcome.

Evidence on the edentulous maxilla treated with implants is rather scarce, making it more difficult for the practitioner to decide on the ideal number of implants.

To help the practitioner find the minimal number of implants in the upper jaw for each individual patient, relevant information from the existing evidence will be presented. In addition, key factors will be discussed which might have an impact on the treatment of the edentulous maxilla with different numbers of implants.

(O20) MINIMAL NUMBER OF IMPLANTS IN THE LOWER JAW?

Gerry Raghoobar (*The Netherlands*)

He is professor in Oral and Maxillofacial Implants and a fellow of the European Board of Oral and Maxillofacial Surgery.

When resorption of alveolar bone after tooth loss progresses, resorption of basal mandibular bone may occur as well. As a result, edentulous patients with conventional dentures often experience serious functional and psychosocial problems due to an impaired load-bearing capacity. These problems include pain during mastication, and insufficient stability and retention of the mandibular denture, which may be treated by an implant-retained overdenture. In this respect, a two-implant mandibular overdenture, being a cost-effective treatment with a favorable long term prognosis, should be considered the first choice of treatment. Often there is even no need to augment a resorbed mandible as short implants also are accompanied by favorable results. Issues that remain include (1) when to use short implants or a combination of bone augmentation followed by implant placement and (2) are always two implants needed or will one implant do also the job in selected cases. There is mention in the literature that indeed one implant might be sufficient for support of a mandibular overdenture. In particular for elderly and compromised patients this protocol can serve as an alternative for the common approach of a mandibular overdenture on two implants. When one implant is used, the mesostructure and its retentive parts are probably easier to cleanse for patients with impaired skills. This presentation will discuss advantages and disadvantages of various treatment options to rehabilitate the edentulous mandible and will provide a proposal how many implants are needed for specific conditions.

☑ 08:45 / 10:15 (ROOM K1)

IMPLANTS IN THE FUTURE

CAD-CAM, PRECISION OF FIT

CHAIRPERSONS

IRENA SAILER

Head of the Division of Fixed Prosthodontics and Biomaterials at the University of Geneva

KLAUS GOTTFREDSSEN

Enthusiastic within Implant Dentistry and former president of EAO. (1999).

SPEAKERS

(029) THE FUTURE IMPLANT CROWN - CHAIRSIDE VS LABSIDE**Per Vult von Steyern** (Sweden)

Professor Per Vult von Steyern is prosthodontist and a researcher with Dental materials and Dental ceramics as his speciality.

The requirements for an implant crown are many and challenging. The abutment/crown complex often consists of a small gracile component that should be able to withstand high loads, wear and environmental impact. They should furthermore be biocompatible, beautiful and look natural. With optical properties close to what nature once provided us and with a design that guides the surrounding soft tissues, we can recreate the patients' appearance. The lecture will highlight how we can use different modern materials and techniques to achieve strong implant-supported reconstructions with tissue guiding design, for optimal aesthetics and function.

(030) IS CERAMIC THE MATERIAL OF CHOICE FOR FUTURE IMPLANTS?**Eric Van Dooren** (Belgium)

Dr. Van Dooren is a Visiting Professor at University of Liege (Belgium) and University of Marseille and an active member of the European Academy of Esthetic Dentistry

(031) CAD/CAM IN REMOVABLE PROSTHODONTICS**Daniel Wismeijer** (The Netherlands)

Professor and head of the department of Oral Implantology and Prosthetic Dentistry at ACTA Amsterdam, Netherlands.

CAD and CAM are becoming more and more tools that are being used in everyday dental practice. 3D printing of indirect restorations in PMMA, composite and ceramics are slowly taking over the role of milling in the production cycle. Removable prosthesis have stayed a little out of this area of focus but software is giving us the opportunity to plan and execute full and partial denture treatment. Not only the full denture treatment but also implant retained dentures and hybrid dentures can now be fabricated in the digital workflow. Not only the CAD and planning but also the CAM either via milling or 3D printing is now possible. In this presentation the ACTA digital approach to the planning and production of full and partial dentures and the 3D printing and evaluation thereof will be presented.

☺ 08:45 / 10:15 (ROOM A2)

ORAL COMMUNICATIONS**BASIC RESEARCH****CHAIRPERSONS****RYO JIMBO**

Ryo Jimbo, DDS, PhD, is associate Professor, at the Department of Prosthodontics and Department of Oral Surgery and Oral Medicine Malmö University, Malmö, Sweden

PALLE HOLMSTRUP

(Denmark) Everybody know that chronic inflammation is a threat to the oral tissues. The general health aspect is at least as inspiring for research.

(107) OSSEOINTEGRATION OF ZIRCONIA IN THE PRESENCE OF MULTINUCLEATED GIANT CELLS

Yeliz Cavusoglu*, Vivianne Chappuis, Reinhard Gruber, Ulrike Kuchler , Dieter D. Bosshardt, Daniel Buser

(108) STANOZOLOL'S EFFICACY ON BONE REGENERATION IN RAT CALVARIAL CRITICAL-SIZE DEFECTS

Giulia Ghiacci*, Gallia Graiani, Francesca Ravanetti, Chiara Castellini, Simone Lumetti, Carlo Galli, Antonio Cacchioli, Guido Maria Macaluso, Roberto Sala

(109) COMPARING SLACTIVE™, OSSEOSPEED™ AND A NOVEL STRONTIUM RELEASING SURFACE (TI-SR-O) IN EARLY OSSEOINTEGRATION STAGES IN A RABBIT FEMUR MODEL

Vincent Offermanns*, Ole Zoffmann Andersen, Nora Fink, Michael Rasse, Christian Sloth Jeppesen, Søren Sørensen, Caroline Ohman, Heribert Talasz, Morten Foss, Frank Kloss

(110) REVISITING THE MECHANISMS OF GUIDED BONE REGENERATION (GBR): THE ROLE OF THE MEMBRANE COMPARTMENT IN VIVO

Omar Omar*, Alberto Turri, Ibrahim Elgali, Forugh Vazirisani, Anna Johansson, Lena Emanuelsson, Christer Dahlin, Peter Thomsen

- (111) **CLEANING EFFICIENCY OF OSTEOCONDUCTIVE POWDER ABRASIVE TREATMENT ON EXPLANTED HUMAN IMPLANTS AND IN VITRO BIOFILM COATED TITANIUM DISCS**
Ceylin Sedef Tastepe*, Xingnan Lin, Arie Werner, Marcel Donnet, Daniel Wismeijer, Yuelian Liu
- (112) **INCREASED BONE FUSION ON PEEK IMPLANTS COATED WITH CRYSTALLINE HYDROXYAPATITE: A HISTOMORPHOMETRIC STUDY IN RABBIT BONE.**
Pär Johansson*, Ryo Jimbo, Yoshihito Naito, Per Kjellin, Ann Wennerberg
- (113) **BIODEGRADATION PATTERN AND TISSUE INTEGRATION OF TWO DIFFERENT NATIVE PERICARDIUM MEMBRANES. AN IN-VITRO AND IN-VIVO STUDY.**
Ilja Mihatovic*

☉ 08:45 / 10:15 (ROOM A3)

ORAL COMMUNICATIONS

CLINICAL RESEARCH, SURGICALLY RELATED

CHAIRPERSONS

ALBERTO SICILIA

Periodontist, with a practice limited to implant surgery since 1988 in Oviedo, Spain. A clinician dedicated to the refinement of minimally invasive periodontal and implant surgery, with a microscope and computer oriented approach.

JONAS BECKTOR

Head of the department of Oral & Maxillofacial Surgery at the University of Malmö, Sweden.

- (121) **A PROSPECTIVE, NON-RANDOMIZED, CONTROLLED, MULTICENTRE STUDY TO EVALUATE THE OUTCOME OF ORAL IMPLANTS IN WOMEN OVER 60 YEARS OF AGE WITH OSTEOPOROSIS: 1-YEAR RESULTS**
Andy Temmerman*, Lars Rasmusson, Alexander Kübler, Andreas Thor, Marc Quiryren
- (122) **RCT EVALUATING EFFECTIVENESS AND SAFETY OF A STABILIZED 3D COLLAGEN MATRIX COMPARED TO AUTOGENOUS CONNECTIVE TISSUE GRAFTS FOR SOFT TISSUE VOLUME AUGMENTATION AT IMPLANT SITES**
Marco Zeltner*, Ronald Jung, Christoph Hämmerle, Daniel Thoma
- (123) **A NEW MINI-FLAP DESIGN APPROACH FOR IMPLANTS INSERTION THROUGH FLAPLESS GUIDED-SURGERY TEMPLATE: 1-YEAR SPLIT-MOUTH PROSPECTIVE STUDY.**
Leonardo Amorfini*, Stefano Storelli, Eugenio Romeo
- (124) **UNRELIABLE SURVIVAL AND SUCCESS RATE OF IMPLANT PLACED IN FIBULA FREE-FLAP: A LONG-TERM RETROSPECTIVE STUDY**
Gerardo Pellegrino*, Achille Tarsitano, Agnese Ferri , Giuseppe Corinaldesi, Alberto Bianchi, Claudio Marchetti
- (125) **CLINICAL EVALUATION OF TWO DIFFERENT XENOGRAFTS USED FOR SOCKET PRESERVATION TECHNIQUE COMPARED TO NON-GRAFTED SOCKETS: A MULTICENTER RANDOMIZED CLINICAL TRIAL.**
Valentina Borgia*, Fortunato Alfonsi, Saverio Marchionni, Paolo Tonelli, Ugo Covani, Antonio Barone
- (126) **EVALUATION OF EARLY AND LATE COMPLICATIONS AFTER GUIDED BONE REGENERATION WITH PTFE MEMBRANES VERSUS TITANIUM MESHES. A RANDOMIZED CLINICAL TRIAL**
Alessandro Cucchi*
- (127) **RIDGE SPLITTING WITH OR WITHOUT REFLECTION OF THE PERIOSTEUM OR WITH SIMULTANEOUS GBR: AN EXPERIMENTAL STUDY IN MINIATURE PIGS.**
Andres Stricker*, Jonathan Fleiner, Michel Dard, Stefan Stübinger, Dieter Bosshardt

☉ 10:45 / 11:15 (VICTORIA HALL)

OUT OF THE BOX SESSION 2

CHAIRPERSONS

CHRISTOPH HÄMMERLE

Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science Director of Student Affairs for the Center for Dental Medicine, University of Zurich.

MARIO GROISMAN

Oral implantology specialist, Barra da Tijuca, Brazil.

(O11) NEW CELLS IN OLD BODIES

Jonas Frisé (*Sweden*)

Tobias Foundation, Professor of Stem Cell Research since 2001.

A modern myth says that all the cells in our body are exchanged every 7th year, but in reality there is an enormous difference between different cell types, with some living only a few days and others never being renewed. New cells often derive from stem cells, which also have come to be used in life saving clinical treatments. I will provide an overview of the current state and future of stem cells in tissue homeostasis and regeneration.

☉ 11:15 / 12:30 (VICTORIA HALL)

MAIN SESSION 2

CONSENSUS CONFERENCE 2015

CHAIRPERSONS

CHRISTOPH HÄMMERLE

Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science
Director of Student Affairs for the Center for Dental Medicine, University of Zurich.

MARC QUIRYNEN

Prof. Marc Quiryne is full-professor at the Faculty of Medicine of the Catholic University, Leuven, Belgium

SPEAKERS

(005) THOMAS FLEMMIG (HONG KONG)
MARIANO SANZ (SPAIN)
CHRISTOPH HÄMMERLE (SWITZERLAND)
ALBERTO SICILIA (SPAIN),
MARC QUIRYNEN (BELGIUM)

In February 2015, four groups of experts in implant dentistry met to debate four key topics. These topics were selected because they represent areas where there is currently a lack of clarity on best practice. By the end of the meeting, experts reached a consensus based on their combined expertise. The main conclusions and clinical recommendations will be presented during this session and also published in a supplement of Clinical Oral Implants Research.

- Opening of session
- What is a consensus conference?
- Digital technologies to support planning, treatment and fabrication processes and outcome assessments in implant dentistry
- Long-term stability of peri-implant tissues after bone or soft tissue augmentation. Effect of zirconia or titanium abutments on periimplant soft tissues
- Therapeutic concepts and methods for improving dental implant outcomes
- The patient undergoing implant therapy

☉ 12:30 / 13:15 (ROOM K11)

OFFICIAL SESSION

EAO GENERAL ASSEMBLY

☉ 13:15 / 15:45

HANDS-ON SESSIONS

INDUSTRY HANDS-ON SESSIONS (see details page 38)

🕒 13:15 / 14:45 (VICTORIA HALL)

ARENA 3

TO LEARN FROM COMPLICATIONS

CHAIRPERSONS

FRIEDRICH NEUKAM

Chairman and Head at the Department of Oral and Cranio-Maxillofacial Surgery at Erlangen-Nuremberg University Dental School, Germany.

RONALD JUNG

Head Division of Implantology and Vice Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science, University of Zürich.

SPEAKERS

(021) MAXILLARY SINUS GRAFTING COMPLICATIONS AND HOW TO AVOID THEM

Pascal Valentini *(France)*

Past President of the EAO 2012-2014.

According to the literature, It is well known that the occurrence of post operative chronic sinusitis appears to be limited to patients with a predisposition for this condition. In order to prevent post and also pre operative complications it is very important to be able to precise anatomical particularities and to diagnose the health status of maxillary sinus. The possibility for the right management of those parameters is essential for the case selection.

(022) THE SURGEON AS THE COMPLICATING FACTOR

Franck Renouard *(France)*

He is in Private Practice in Paris limited of Oral and Implant Surgery and visiting Professor at the Medicine Faculty of Lieges, Belgium.

In 1981, PI Branemark introduced the global medical community to a new treatment for edentulism – that of replacing lost teeth with implant-supported prostheses. At the time, many thought that edentulism would be banished thanks to this thoroughly-efficient technique which appeared to have no or very few disadvantages. The surprising fact of the matter is, however, when we compare implant dentistry then and now, in 2015, we're faced with the question, 'why is implantology probably no more reliable now than it was in the 1980s?' This is despite the fact that today we know much more about the biology and biomechanics of implant dentistry than we did then, as demonstrated in the innumerable scientific publications that deal with these fields of activity. It is undeniable that many practitioners are beginning to question the supposed infallibility of implants. Commercial aviation started to become a safer mode of transport when the role of human factors and behaviours in the occurrence of complications and accidents began to come under the spotlight. We are only just starting to explore both the impact of human factors and human attitude in medicine – and we haven't even begun this process in the fields of implant dentistry. The aim of this presentation is to demonstrate that to reduce the number of errors and complications arising in these fields, it is absolutely crucial to adopt a new approach, one that emphasizes an examination of the non-technical factors that are part and parcel of this specialization.

(023) ON THE EVOLUTION OF COMPLICATIONS IN IMPLANT PROSTHODONTICS

Bjarni Pjetursson *(Iceland)*

Professor and Dean of the Dental School, University of Iceland. Specialist training in Periodontology and Prosthetic Dentistry.

It is already more than half a century since the first endosseous dental implants were placed in a patient to support a fixed reconstruction.

Over the decades the experience with dental implants has been very positive. Hundreds of clinical studies have reported very high survival rates of dental implants and implant supported reconstructions. Many of those studies have also reported on biological complications, such as marginal bone loss and soft tissue complications.

Technical complications and the prevalence of patients with or without failures and complications have received significantly less attention. For implant-supported reconstructions, complications can occur over the years in function. These can be minor complications, which can be corrected or repaired without investing lots of time and effort. But there are also complications, classified as major complications, resulting in a lot of time and effort to be invested or even worse, the reconstruction has to be removed and remade.

In this lecture, the incidence of different technical complications by implant-supported reconstructions and what

we have learned from technical complications will be presented. The etiology of technical complications will be addressed and discussed how it is possible to reduced or eliminate the incidence of technical complications in implant dentistry. Finally, guidelines on how to report success and complications in implant dentistry will be presented.

(O24) WHAT HAVE WE LEARNED FROM MUCOGINGIVAL COMPLICATIONS?

Rino Burkhardt (*Switzerland*)

Clinical interests and expertise focused on minimally-invasive periodontal approaches. Research interests in mucosal healing and influencing factors.

A complication in periodontal or implant surgery is an unfavourable evolution of a health condition or a therapy. Depending on several factors – local and general ones – such as age, health status, immune system and others, complications may arise more easily and cause an adverse effect.

In the last decades, most of the complications in periodontal surgery have been described and we have learned how to minimize the risk to provoke them.

On the contrary, in implant therapy, adverse effects such as esthetic problems, are often caused by an incorrect procedure and, therefore, must be called treatment or medical errors and not complications.

It is the goal of the presentation to evaluate the most severe complications that may arise after mucogingival surgeries and how these adverse effects can be avoided in implant therapies. Additionally, the differences between true complications and treatment errors will be discussed. In the conclusion, the measures that have to be respected to reduce adverse effects in implant surgery to their minimum will be listed up.

(O25) WHAT HAVE WE LEARNED FROM IMMEDIATE IMPLANT PLACEMENT AND IMMEDIATE RESTORATION?

Markus Hürzeler (*Germany*)

He is Clinical Associate Professor at the Albert-Ludwigs University of Freiburg and is running his own clinic with his partner Dr. Zuhr in Munich.

There are two major factors which need to be taken into considerations when it comes to immediate implant placement and immediate restorations. On one side it needs to be evaluated if an implant does integrate into an extraction site as well as when it is placed into a healed site. On the other side the esthetic outcome also need to be analyzed. Nowadays it seems to be clear that implants do integrate very well when they are placed immediate into extraction socket. However, the esthetic outcome is discussed very controversial. Recently, new publications demonstrate a great esthetic outcome with the immediate approach by using PES (pink esthetic scores) for the analysis. But the published data are only short time. Clinical experience however demonstrates often that the problems will depict after a longer period of time. Therefore, we need to evaluate the treatment concepts with immediate implant placement and immediate restoration with caution. In this presentation, the current literature in combination with the personal experience over the last 15 years in this field will be discussed critically. In addition, new research will be presented comparing immediate implant placement with the delayed approach over 5 years. Even so that the current literature using PES support the immediate approach the results after 5 years are disillusioning.

🕒 13:15 / 14:45 (ROOM K1)

IMPLANTS IN THE FUTURE 2

VIRTUAL PLANNING, 3D PRINTING AND MORE

CHAIRPERSONS

LUCA CORDARO

Head of a department of periodontology and prosthodontics Dr Cordaro has expertise in both the surgical and restorative phases of implant dentistry. He is author of scientific papers and books and is daily involved in the treatment of extensive cases that require tissue augmentation.

DANIEL BUSER

Oral Surgeon and implant specialist from the University of Bern. Heavily involved in research and teaching since roughly 30 years.

SPEAKERS

(O32) THE VIRTUAL PATIENT: HOW FAR AWAY ARE WE?

Thabo Beeler (*Switzerland*)

Thabo Beeler is heading the Capture and Effects group at Disney Research, focusing on Digital Humans.

In this talk I will give an overview of our research on digitizing humans. Over the past five years, Disney Research Zurich has devised new technologies for scanning various aspects of the human face. We can capture and reconstruct the facial geometry and appearance at high resolution and accurately measure the deformation of skin. While originally developed for the entertainment industry, our methods become more and more appealing to other domains that require digital humans, such as the medical fields.

(033) THE ORIGIN, PRESENT AND FUTURE OF 3D PRINTING

Dianne Rekow (*United Kingdom*)

Professor Rekow's background in engineering and dentistry is valuable in assessing the value and impact of digital innovations

Digital data acquisition and restoration design, tied to milling machines revolutionized restoration production, opening new classes of material choices. Now, replacing the milling machine with 3D printing further expands flexibility and opportunities in dentistry. With 3D printing, structures are created by printing layer by layer, then fusing the layers together. The term, 3D printing, encompasses an array of different technologies each creating a capitalizing on a different approach to fusing layers together. Some of these technologies, available since the mid 1960's, are still in use today. In this rapidly expanding field with a host of different technologies, capabilities (and costs), new systems are being introduced and applications growing seemingly exponentially. Most current systems are often quite inflexible in terms of materials from which structures can be created. The future is ripe for further material developments to expand the capability of existing printing machines. A further consideration is the difference in structure/restoration/implant physical properties between structures milled and those that are printed. This presentation will briefly describe the evolution of the technologies; overview the existing systems 's capabilities, costs to acquire and operate the system as well as material-related costs, and implications of additive manufacturing processes on material properties of the structures produced; and then imagine future developments and the implications for dentistry with particular focus on implants.

(034) 3D PRINTING IN MAXILLOFACIAL SURGERY

Lawrence E Brecht (*United States*)

Lawrence E. Brecht, DDS, is the Director of Maxillofacial Prosthetics at NYU College of Dentistry in the Advanced Education Program in Prosthodontics.

Advances in CAD/CAM technologies and 3D printing have led to unprecedented levels of precision in maxillofacial surgery and reconstruction. The development of computer-aided planning and 3D printing provides the reconstructive team with highly accurate models, surgical splints, implant placement guides and cutting jigs. These devices allow for a prosthetically-driven and occlusally-based jaw reconstruction. This presentation reviews the evolution of the collaborative effort of our team of an oral and maxillofacial surgeon, a microvascular plastic surgeon and a maxillofacial prosthodontist in optimizing the outcomes in our patients requiring complex maxillofacial reconstruction.

(035) 3D PRINTING IN PROSTHODONTICS

Irena Sailer (*Switzerland*)

Head of the Division of Fixed Prosthodontics and Biomaterials at the University of Geneva

Vincent Fehmer (*Switzerland*)

Master Dental Technician at the Clinic for Fixed Prosthodontics and Biomaterials Center for Dental and Medicine University of Geneva Switzerland

The recent digital technology offers numerous new and efficient options for restorative dentistry. Within digital dentistry the optical impressioning is the first step towards a digitalization of the patient's intraoral situation. The resulting digital file is then used for the virtual planning and the virtual design of reconstructions, which thereafter can be milled out of prefabricated blanks of different materials with aid of CAD/CAM systems. Evenmore, these CAD/CAM reconstructions can either be made in a centralized production facility or chair-side in the dental office. The digital systems available today offer numerous advantages, like e.g. the precision of the reconstructions. A high number of studies has demonstrated good accuracy of the current subtractive manufacturing, i.e. the computer-aided milling or the grinding of ingots. More recently, additive procedures have been introduced. Stereolithography, laser sintering or printing of materials like wax, resins or metals has shown to be even more precise than the subtractive manufacturing. Furthermore, the additive fabrication of reconstructions may even be more efficient due to the fact, that less time may be needed for the fabrication and no material excess is produced. Finally, the „digital workflow“ and the associated additive procedures, is not only interesting for the fabrication of dental reconstructions but also for a better patient/dentist communication. As an example, 3D prosthetic diagnostic files of digital wax-ups or set-ups may be printed out of resin and used for try-in in the clinical situation.

CLINICAL RESEARCH, PROSTHETICALLY ORIENTED

CHAIRPERSONS

RYO JIMBO

Ryo Jimbo, DDS, PhD, is associate Professor, at the Department of Prosthodontics and Department of Oral Surgery and Oral Medicine Malmö University, Malmö, Sweden

PERNILLA LARSSON GRAN

Swedish prosthodontist and researcher with special interest in dimensions of oral health and quality of life. Malmö University and Folktandvården Östergötland.

- (135) THE EFFECT OF IMPLANT PLACEMENT IN PATIENTS WITH EITHER KENNEDY CLASS II AND III ON THE ORAL HEALTH RELATED QUALITY OF LIFE USING THE ORAL HEALTH IMPACT PROFILE 14 NL
Paul Van Eekeren*
- (136) THE EFFECT OF THE PRIMARY STABILIZATION OF GRAFT MATERIAL IN A RIDGE PRESERVATION TECHNIQUE BY MEANS OF THE SIMULTANEOUSLY INSERTED FIXED PROSTHESIS
Walter Lueckerath*
- (137) RESIDUAL CEMENT ON STANDARD OR INDIVIDUALIZED ALL-CERAMIC ABUTMENTS WITH CEMENTED ZIRCONIA SINGLE CROWNS—A PROSPECTIVE RANDOMIZED PILOT TRIAL
Stefanie Kappel*, Constantin Eiffler, Justo Lorenzo-Bermejo, Thomas Stober , Peter Rammelsberg
- (138]) 5-YEAR STUDY OF SHORT IMPLANTS PLACED IN THE ATROPHIC POSTERIOR MAXILLA: CROWN-TO-IMPLANT RATIO
Rabah Nedir*, Nathalie Nurdin, Mark Bischof
- (139) IMMEDIATE LOADING OF SINGLE-TOOTH IMPLANTS IN THE AESTHETIC ZONE: 5-YEAR RESULTS OF A RANDOMIZED CLINICAL TRIAL
Laurens den Hartog*, Gerry Raghoobar, Arjan Vissink, Henny Meijer
- (140) THE INFLUENCE OF CAD/CAM ABUTMENT DESIGN ON THE PRESENCE OF UNDETECTED CEMENT REMNANTS: A PROSPECTIVE CLINICAL STUDY.
Grzegorz Wasiluk*, Ewa Chomik
- (141) COST ANALYSIS RELATED TO AFTERCARE OF MANDIBULAR OVERDENTURE TREATMENT ON NON-SPLINTED IMPLANTS IN FULLY EDENTULOUS PATIENTS
Melissa Dierens*, Stijn Vervaeke, Carine Matthys, Jos Besseler , Hugo De Bruyn

☉ 13:15 / 14:45 (ROOM A3)

ORAL COMMUNICATIONS

CLINICAL RESEARCH, PERI-IMPLANT BIOLOGY

CHAIRPERSONS

BO DANIELSEN

Bo Danielsen, Denmark, has an interest in teaching and learning in respects to both students and patients

CLAUDIO PINO

Brazil

- (149) LONG TERM FOLLOW-UP OF OSSEOINTEGRATED IMPLANTS PLACED IN PERIODONTAL AND NOT PERIODONTAL PATIENTS. A LONGITUDINAL CLINICAL STUDY.
Daniele Cardaropoli*, Lorena Gaveglio, Giuseppe Cardaropoli
- (150) EVALUATION OF HYALURONIC ACID INJECTION FOR MINIMALLY INVASIVE VOLUME AUGMENTATION OF INTERPROXIMAL PAPILLAE AT SINGLE IMPLANTS. PRELIMINARY RESULTS FROM A RCT.
Andreas Stavropoulos*, Kristina Bertl, Klaus Gotfredsen, Simon Storgaard Jensen, Corinna Bruckmann
- (151) COMPARATIVE EVALUATION OF RELEVANT ASPECTS OF IMPLANT DESIGN ON PERIIMPLANT BONE LOSS - PROSPECTIVE RANDOMIZED-CONTROLLED SPLIT-MOUTH CLINICAL TRIAL
Roberto Pessoa*, Ravel Sousa, Leandro Pereira, Carlos Soares, Fabio Bezerra, Siegfried Jaecques,

Jos Vander Sloten, Marc Quirynen, Wim Teughels, Spin-Neto Rubens

- (152) **OSTEOTOME SINUS FLOOR ELEVATION WITHOUT GRAFTING: A 10-YEAR CONE-BEAM CT EVALUATION**

Marc El Hage*, Semaan Abi Najm, Mark Bischof, Nathalie Nurdin, Rabah Nedir

- (153) **THE INFLUENCE OF SOFT TISSUE THICKNESS ON CRESTAL BONE CHANGES AROUND IMPLANTS: A HISTOMORPHOMETRIC AND IMMUNOHISTOCHEMICAL PROSPECTIVE CONTROLLED CLINICAL TRIAL**

Jose Carlos Sanchís*, Luigi Canullo, Fabio Camacho, David Penarrocha-Oltra, Maria Penarrocha-Diago

- (154) **IMPLANT SUPPORTED RESTORATION FOLLOWING HORIZONTAL RIDGE RECONSTRUCTION BY MEANS OF AUTOGENOUS OR HOMOLOGOUS BONE BLOCK GRAFTS: 5 - YEARS CLINICAL RESULTS OF A RCT**

Simone Lumetti*, Ugo Consolo, Edoardo Manfredi, Giulia Ghiacci, Andrea Toffoli, Guido Maria Macaluso, Claudio Marchetti

- (155) **PROBIOTIC SUPPLEMENTS AS AN ADJUNCT TO DEBRIDEMENT FOR THE TREATMENT OF PERI-IMPLANT MUCOSITIS - A RANDOMIZED CONTROLLED TRIAL**

Hadar Hallström*, Susan Lindgren, Cecilia Widen, Stefan Renvert, Svante Twetman

☉ 15:15 / 16:45 (VICTORIA HALL)

PARALLEL SESSION 1

TREATMENT AND OUTCOME CHALLENGES

CHAIRPERSONS

HUGO DE BRUYN

Periodontist and Chairman department and director of specialist training periodontics and postgraduate programme oral implantology

THOMAS FLEMMIG

Professor Thomas Flemmig research focus is on the control of oral biofilms and the economics of oral healthcare.

SPEAKERS

- (036) **THE CURRENT USE OF PATIENT CENTERED/REPORTED OUTCOMES IN IMPLANT DENTISTRY**

Jan Cosyn (*Belgium*)

Jan Cosyn is Professor in Periodontology and Oral Implantology at Brussels and Ghent University

Clinicians traditionally assess the outcome of dental implant treatment on the basis of clinical parameters such as implant and suprastructure survival, marginal bone loss, complications and aesthetics. Economic and psychosocial parameters have gained considerable interest in recent years. This evolution seems logic taking into account that patients need to function with a prosthesis. Thus, their final evaluation should be considered pivotal, even if such assessment is subjective and therefore difficult to quantify. Early reports on patient centered/reported outcomes in implant dentistry focused on general patient satisfaction, which may not suffice to assess the impact of implants on treatment outcome as perceived by patients. Detailed questions are needed to give insight into what aspects are improved by prostheses with or without implant support. Controlled studies (randomized controlled studies (RCTs), cohort studies, cross-over studies and comparative studies) with data on patient satisfaction, patient preference, Oral Health-Related Quality of Life (OHRQoL), chewing ability, cleansability, phonetics, and aesthetics may be considered the primary source of such information. An overview of these studies has been recently described in a systematic review and will be presented to assess the true benefit of implants and specific prosthetic designs in oral rehabilitation, as perceived by patients. Recognizable clinical scenarios will be used to illustrate how fully edentulous patients perceive a fixed implant prosthesis or implant overdenture and to what extent partially edentulous patients consider fast treatment concepts and straightforward surgery important.

- (037) **QUALITY OF LIFE IN PATIENTS UNDERGOING BONE GRAFTING PROCEDURES**

Guido Heydecke (*Germany*)

Prof Guido Heydecke is professor and chair of the department of prosthetic dentistry at the University Medical Center Hamburg, Germany.

Lots of patients still decline implantation due to biased and unrealistic expectations and concerns about the surgical procedure and the consequences. Recent studies showed evidence that dental implant surgery has a low overall perceived burden and is significantly less burdensome than other common surgical procedures. However, bone graft harvesting procedures for dental implants are very likely to negatively affect patients. Therefore, we assessed and compared changes in health-related quality of life (HRQoL), oral health-related quality of life (OHRQoL), and pain after bone graft harvesting for dental implants in a convenience sample of 23 patients.

We found that patients with extra-oral donor sites (anterior iliac crest) reported a substantial deterioration in the physical component of HRQoL 3 days and 4 weeks after surgery compared to the preoperative state, whereas this score did not significantly change in patients with intra-oral donor sites (chin, ascending ramus, buttress region). The mental health component of HRQoL stayed virtually identical in both groups. Changes in OHRQoL were not statistically significant.

Bone graft harvesting from extra-oral donor sites resulted in a higher increase in numbers of pain locations, pain intensity, and negative pain experiences than for intra-oral donor sites. Therefore, in clinical decision-making regarding donor site for bone graft harvesting, patients and clinicians should be aware of the expected decrease in HRQoL and increase in different aspects of pain if deciding for extra-oral donor sites. Whenever possible, intra-oral donor sites should be preferred.

(038) MANAGEMENT OF BONE DEFECTS IN THE AESTHETIC ZONE.

Dehua Li (*China*)

Director, Dept. of Oral Implants, the Fourth Military Medical University; President, Chinese Society of Oral Implantology

Alveolar bone defects are anatomical challenges to implant application and sufficient bone support is considered as a key factor for implant esthetics. Guided bone regeneration provides a good solution to bone defects around implants. Nonetheless, the bone defect resolution has not been demonstrated 100% predictable in practice. Starting from analysis of the reason for this unpredictable reality, this presentation will introduce a classification of alveolar bone defects based upon bony morphology and defect location, and discuss a strategy in treatment planning of bone augmentation, including surgical timing after tooth extraction and the horizontal deficiency of alveolar bone. Bone expansion, titanium mesh technique and selection of bone filling materials will mainly be introduced.

☉ 15:15 / 16:45 (ROOM A3)

EAO JUNIOR COMMITTEE SESSION

SPEAKERS

JOSE MANUEL NAVARRO (SPAIN)

He is the chairman of the EAO Junior Committee, and practices periodontics, prosthodontics and implant dentistry in Las Palmas, Madrid and London.

STEFAN FICKL (GERMANY)

Dr Fickl is Associate Professor in the Department of Periodontology, University of Wuerzburg, Germany

DANIEL S. THOMA (SWITZERLAND)

Daniel Thoma is an Associate Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zurich

BATTLE OF CONCEPTS – THE ESTHETIC ZONE

Different concepts can be used to restore hopeless teeth in the esthetic zone. Among these, immediate implants or delayed implants are used most widely. Both concepts have certain advantages but also disadvantages with regard to treatment time and long-term predictability. Also the use of pontics should be considered to restore teeth in the esthetic zone. On the other hand rather experimental treatment concepts have emerged and have been tested scientifically, where certain parts of the teeth are retained (Socket Shield, Root Submergence technique), in order to limit the shrinkage following tooth extraction. The goal of this interactive session is to present the different approaches and discuss their limitations and shortfalls.

☉ 15:15 / 16:45 (ROOM K11)

CERTIFICATION WORKSHOP

DISCOVER HOW TO OBTAIN THE EAO'S PRESTIGIOUS CERTIFICATE IN IMPLANT-BASED THERAPY

 CHAIRPERSONS

GEORG MAILATH-POKORNY

Managing Partner of the Academy of Oral Implantology, Vienna. He is the author and co-author of 5 textbooks and over 100 national and international publications on oral surgery.

NELE VAN ASSCHE

Dr Nele Van Assche is an EFP certified periodontist who treats patients referred for periodontitis and implants at her private practice. She is also a member of the EAO Junior Committee.

HENNY MEIJER

He is professor in Implant Prosthodontics in Netherlands and is full-time working in implant dentistry regarding treatment of patients, research and education

This workshop has been created to help candidates complete the three stages required to obtain the EAO's Certificate in Implant-based Therapy. It will provide step-by-step guidance on each of the stages.

1. Collecting the data that is required and submitting it to the EAO online:

- how to fill in the questionnaire
- what to mention and where
- how to take the pictures (face, profile right, profile left , etc).
- which pictures to send
- which cases to choose

2. Completing the written exam

Examples of multiple choice questions will be shown from the past exams. Participants will receive 20 questions and answers and will be able to evaluate their own scores, based on these 20 questions.

3. Completing the oral exam

During this interactive session, G. Mailath, N. Van Assche and H. Meijer will each present a case and be asked questions about it. This will demonstrate the importance of using scientific rationale to answer the questions. A candidate who has completed the programme will describe the process from his perspective.

 ☹ 16:45 / 18:45

SYMPOSIA SESSIONS

SATELLITE INDUSTRY SYMPOSIA (see details page 40)

SATURDAY, 26TH SEPTEMBER

NUMBER IN FRONT OF THE LECTURER TITLE REFERS TO THE ABSTRACT NUMBER PUBLISHED IN THE COIR SUPPLEMENT

☉ 08:15 / 10:45

HANDS-ON SESSIONS

INDUSTRY HANDS-ON SESSIONS (see details page 38-39)

☉ 08:45 / 10:15 (VICTORIA HALL)

ARENA 4

SUCCESSFUL SUPPORTIVE TREATMENT – EVIDENCE FOR CLINICAL EFFICACY

CHAIRPERSONS

ALBERTO SICILIA

Periodontist, with a practice limited to implant surgery since 1988 in Oviedo, Spain. A clinician dedicated to the refinement of minimally invasive periodontal and implant surgery, with a microscope and computer oriented approach.

SPEAKERS

(026) PERI-IMPLANTITIS: DIAGNOSIS AND PREVENTION THROUGH CASE SELECTION AND PROPER TREATMENT EXECUTION

Hugo De Bruyn (*Belgium*)

Periodontist and Chairman department and director of specialist training periodontics and postgraduate programme oral implantology

Peri-implantitis is a bacterial disease that affects soft and hard tissues around dental implants in a dramatic way. In contrast to the bone adaptation that occurs in the initial time frame of implant loading, due to biologic width formation, it is characterized by ongoing bone loss, pocket formation and suppuration. This has a direct effect on the aesthetic appearance as well as location of the gums. Often and certainly in the anterior zone of the maxilla this leads to esthetical consequences and patient's dissatisfaction. Prevalence of the disease is controversial due to disparity of disease thresholds, however, recent systematic reviews and long-term clinical trials present figures of 10 to 20% of affected patients. In this presentation disease prevalence in relation to diagnostic threshold with respect to bone loss and peri-implant inflammation will be discussed based on long-term clinical studies. Furthermore measures to prevent disease initiation will be discussed including patient selection, presurgical planning and proper surgical and restorative treatment execution.

(027) SUPPORTIVE THERAPY FOLLOWING TREATMENT OF PERI-IMPLANT DISEASE

Lisa Heitz Mayfield (*Australia*)

Maintains specialist periodontal practice in Perth. Adj Professor at the University of Western Australia.

Preventive measures to ensure successful treatment outcomes include establishing healthy oral conditions prior to implant placement and meticulous treatment planning with respect to implant placement and prosthesis design. In order to maintain healthy peri-implant tissues and prevent peri-implant disease, regular monitoring and individualized supportive care is essential. Supportive therapy also plays an important role following the treatment of peri-implant disease. When peri-implant mucositis is diagnosed, effective treatment will result in the resolution of the inflammation, and prevention of progression to peri-implantitis. When peri-implantitis is diagnosed, a successful treatment outcome will lead to a resolution of inflammation and in some cases regeneration of bone. This presentation will focus on supportive peri-implant therapy following the treatment of peri-implant disease. The evidence for maintenance care in prevention of further disease progression will be presented.

(028) HOW SUCCESSFUL IS SUPPORTIVE THERAPY IN PREVENTION OF PERI-IMPLANT DISEASE

Mariano Sanz (*Spain*)

Professor and Chairman of Periodontology

Peri-implant diseases are defined as inflammatory lesions of the surrounding peri-implant tissues and include peri-implant mucositis (an inflammatory lesion limited to the surrounding mucosa of an implant) and peri-implantitis (an inflammatory lesion of the mucosa that affects the supporting bone with resulting loss of osseointegration). Primary prevention of mucositis is the main intervention to prevent periimplantitis. In fact,

therapy of peri-implant mucositis involving mechanical debridement of the implant surface using curettes, ultrasonic devices, air-abrasive devices or lasers, with or without the adjunctive use of local antibiotics or antiseptics has proven effective.. For peri-implantitis, however the results are limited and surgical therapy is indicated when nonsurgical therapy fails to control the inflammatory changes. For this reason supportive therapy is fundamental for preventing mucositis and in case this soft tissue inflammatory disease is present to implement the appropriate therapy. In this presentation we shall discuss the current information on prevalence of these conditions and the evidence on long term prospective studies able to prevent periimplantitis.

🕒 08:45 / 10:15 (ROOM K1)

PARALLEL SESSION 2

IMAGING (RADIOLOGY) IN TREATMENT PLANNING AND FOLLOW-UP

CHAIRPERSONS

HENNING SCHLIEPHAKE

Prof. Henning Schliephake is professor and chair of the Dept. of OMF Surgery at the George Augusta University in Göttingen.

ISABELLA ROCHIETTA

Isabella Rocchietta is a specialist periodontist in London, U.K. Affiliated with Department of Biomaterials, Institute for Clinical Sciences, The Sahlgrenska, Academy at the University of Gothenburg, Sweden.

SPEAKERS

(039) PRESURGICAL IMAGING IN IMPLANT TREATMENT: FROM GUIDELINES TO CLINICAL USE

Michael Bornstein *(Switzerland)*

He is Associate Professor at the Dept. of Oral Surgery and Stomatology, University of Bern and runs a private practice dedicated to oral diagnostics (oral medicine and dento-maxillo-facial radiology) in Zurich.

Most published national and international guidelines on the use of CBCT in implant dentistry do not offer evidence-based action statements developed from a rigorous systematic review approach. The reported clinical indications for CBCT use in implant dentistry vary from preoperative analysis regarding specific anatomic considerations, site development using grafts, and computer-assisted treatment planning to postoperative evaluation focusing on complications due to damage of neurovascular structures. Indications or contraindications reported for CBCT use in implant dentistry are still based on non-randomized clinical trials, either cohort or case-controlled studies. It will be difficult to prove a clear and statistically significant benefit CBCT over conventional 2-dimensional imaging such as panoramic radiography with respect to survival / success of dental implants, damage of the IAN or other vital neurovascular structures in the arches resulting in dysesthesia or pain in comparative prospective studies due to the high number of cases needed for such an evaluation. The present lecture will focus on recent guidelines and indications / contraindications for CBCT use in implant dentistry.

(040) RADIOGRAPHIC BONE QUALITY ASPECTS IN PLANNING IMPLANT SURGERY

Christina Lindh *(Sweden)*

Professor in Oral and Maxillofacial Radiology at the Faculty of Odontology, Malmö University, Sweden.

A low bone quality and limited bone quantity is correlated with early implant failure and decreased success rate of dental implant treatment. Therefore, evaluation of jaw bone tissue prior to dental implant treatment is essential. Jaw bone tissue may be evaluated by different clinical and imaging methods and with morphometric analysis. Bone quality is a complex term and no clear definition exists. The term comprises several parameters such as bone density, degree of mineralization, mechanical and physiological parameters. The classification of bone quantity and bone quality proposed by Lekholm and Zarb (1985) is the one most frequently used according to the scientific literature. The classification is based on evaluation of radiographs and tactile perception during installation and has been compared with objective microstructure parameters measured by microCT and histomorphometry. The lecture will illustrate different parameters of bone quality and imaging methods used to evaluate these parameters. Examples of imaging methods are intraoral and panoramic radiography, computed tomography and cone-beam computed tomography. For some of these imaging methods correlation with implant treatment outcome has been described and the methods can be valuable in the planning of implant treatment.

(041) DO WE STILL NEED TO USE HOUNSFIELD SCORES IN PRESURGICAL PLANNING?

Reinhilde Jacobs *(Belgium)*

Expert in Dentomaxillofacial Radiology, with focus on clinically applied CBCT research (80 publications) & bone

quality research

Over the last decades, oral implant placement has evolved towards a predictable and routinely used treatment, with local and systemic factors influencing its outcome. Considering that all these variables and conditions may directly or indirectly affect bone conditions of the host bed, it is obvious that attention should be paid to the local bone quality during presurgical planning. Nowadays, CBCT is often available for such planning, implying that one might focus on potential techniques for bone quality assessment using these radiological 3D datasets. Yet, it should be noted that CBCT devices exhibit wide ranges for grey value distribution, creating an uncertainty on the validity and reliability of CBCT bone density measurements as an index of bone quality. Thus, Hounsfield units scoring of bone density may not apply. Meanwhile, it should be realized that the introduction of new and improved implant surface characteristics has tremendously changed the requirements on bone quality. Considering the fact that a healthy vascularized bone structure may be more clinically relevant, the limiting factor for bone density measures in CBCT may be easily overcome. What might be needed presurgically is a bone structural analysis. Unfortunately, such analysis is not yet available in CBCT diagnostic and implant planning software tools.

(042) CREATING THE VIRTUAL PATIENT: HOW TO INTEGRATE FACIAL, OPTICAL AND RADIOLOGICAL IMAGING COMPONENTS

Ali Tahmaseb (*The Netherlands*)

Dr. Ali Tahmaseb is Associate Professor Department of Oral Function and Restorative Dentistry Section Oral Implantology and Prosthetic Dentistry in Amsterdam.

CBCT devices and Intra oral Scanner (IOS) devices in conjunction with several software applications and other hardware devices have found their way in our dental professional life already and expanding their influences as we speak. The key development in these matters was undoubtedly the superimposing technology where the different image data can be combined to create realistic images of our patient with diverse intra and extra oral information. Dicom images conducted from CBCT scanners together with STL files retrieved from IOS devices can be combined with 3D surface scanners giving a realistic and dynamic view of our patients. This information can be utilized to plan our daily patients cases, design the future restoration, follow up our patients but also their functional pattern over time. This lecture attempts to give an update about these technologies and their applications in our daily practices and academic centres.

⌚ 08:45 / 10:15 (ROOM A3)

INVITED SOCIETIES PROGRAMME

CHAIRPERSONS

ANDREA MOMBELLI

He is Professor and Chair, Division of Periodontology, and director of the post-graduate program in periodontology at the University of Geneva, Switzerland.

PERNILLA LARSSON GRAN

Swedish prosthodontist and researcher with special interest in dimensions of oral health and quality of life. Malmö University and Folk tandvården Östergötland.

SPEAKERS

(047) IMMEDIATE IMPLANT PLACEMENT AND RESTORATION IN PATIENTS WITH SEVERE PERIODONTAL DISEASE (POTENTIALLY EDENTULOUS PATIENTS)

Ye Lin (*China*)

Dr. Lin Ye is Professor and Chairman in the department of Oral Implantology, Hospital and School of Stomatology, Peking University

It's a worldwide challenge to achieve esthetic implant restoration and predictable result in patients with severe periodontitis, It will be more risks or not ? This work tried to improve clinical result in those patients with different approaches and evaluate their stability .

From 2006 to 2014 in the department of oral implant of Peking University, School of Stomatology, 509 patients with periodontitis underwent implant treatment and 1799 implants were placed totally. Different clinical approaches were performed to improve clinical result. 1. Changing neighbor teeth topography to close black triangle between natural tooth and implant crown with non-invasive ceramic veneer in 31 cases. 2. Changing original crown form of missing tooth into rectangular implant crown tried to compensate the deficient papillae in 191 patients. 3. Subapical osteotomy in mandible front were performed to correct unfavorable intermaxillary

relationship in 39 patients. 4. The ceramic gingival were performed to compensate vertical defect and avoiding bone grafts. 5. Following All-on-Four concept, Immediate implant and restoration were performed in 136 patients with hopeless teeth rest comparing with edentulous Jaws in 51 patients
Mean follow up was 39 months (ranged from 10 to 93 months), Implant survival rate is 99.1%, MBL changing of implants between patients with hopeless teeth and patients with edentulous jaws showed no significant difference.

Implant restoration in patients with severe periodontitis is still a dilemma worldwide, it seems no simple, ideal method presented. The crown reforming, non-invasive veneer could improve clinical result and complete implant restoration such as all-on-four concept is effective alternative for patients with severe periodontitis.

(O48) OSSEOINTEGRATION AS A FOREIGN BODY REACTION

Christer Dahlin (*Sweden*)

Dr Christer Dahlin is a Professor in Oral Surgery and Guided Tissue Regeneration at Department of Biomaterial, University of Gothenburg, Sweden.

The aim of this presentation is to discuss alternative ways of looking at the concept of osseointegration and secondly to address the reasons for marginal bone loss around dental implants. When a foreign body is placed in bone or soft tissue, an inflammatory reaction inevitably develops. Hence, osseointegration is but a foreign body response to the implant, which according to classic pathology is a chronic inflammatory response and characterized by bone embedding/separation of the implant from the body. A balanced, steady state situation of the inevitable foreign body response will be established for the great majority of implants, seen as maintained osseointegration with no or only very little marginal bone loss. It can be speculated, based on this theory, that marginal bone loss is the result of different tissue reactions coupled to the foreign body response and less related to biofilm-mediated infectious processes as the primary cause. The presentation will present current knowledge on healing mechanisms controlling the implant/host interaction and its biological implications related to this hypothesis and further correlate this to the clinical setting with possible clinical recommendations.

(O49) BRAIN SIGNALLING FROM TEETH AND DENTAL IMPLANTS

Mats Trulsson (*Sweden*)

Professor, PhD, DDS, Specialist in Prosthetic dentistry. Head of Department of Dental Medicine at Karolinska Institutet, Sweden.

Osseointegrated dental implants lack a periodontal ligament naturally occurring around the roots of teeth. As a consequence, they also lack the highly sensitive periodontal mechanoreceptors that are located in the ligament. These sensors play a central role in encoding patterns of forces acting on the dentition and contribute significantly to the perception of tooth loading and the regulation of masticatory forces. The sensation evoked when a force is applied to a dental implant, osseoperception, is qualitatively different from dental tactile sensations. The balance between the dynamic and static sensitivities of the mechanoreceptor systems available to the implant patients clearly differs from those of dentate patients with periodontal mechanoreceptors. To be able to understand how implant treatment affects oral sensory and motor functions, we must first learn about the role of the natural tooth as a sensor in the nervous system. This presentation will provide a summary for the clinician of recent studies on the sensorimotor regulation of masticatory function with natural teeth and dental implants. Focus will be on the regulatory changes that occur when a natural tooth is replaced by an implant and its clinical implications.

(O50) PRF AND ITS APPLICATION IN IMMEDIATE IMPLANT PLACEMENT

Yanmin Zhou (*China*)

Professor Zhou is from Department of stomatology, Jilin University (China) and he is the fellow of International Dental Collage.

It is widely acknowledged that the best therapeutic option for replacing absent teeth is the placement of osseointegrated implants, but the resorption of both horizontal and vertical alveolar bone after tooth lost is a challenge to dental implantology. Platelet-rich plasma is an autologous product that is derived from whole blood through the process of gradient density centrifugation. The proposed value of this product lies in the ability to incorporate high concentrations of the growth factors, nowadays PRF is widely used in dental implantology and in bone augmentation procedures and has achieved promising results.

CHAIRPERSONS

SØREN SCHOU

Dr Søren Schou is Professor at the Department of Oral and Maxillofacial Surgery, School of Dentistry, University of Copenhagen, Denmark.

ANN WENNERBERG

Professor and Chair, Department of Prosthodontics, Vice-Dean, Faculty of Odontology, Malmö University, Sweden

- (156) **RATING SCORES TO JUDGE THE ESTHETIC OUTCOME OF SINGLE-TOOTH IMPLANTS: METHODOLOGICAL APPRAISAL**
Lukas Fürhauser*, Georg Mailath-Pokorny, Dieter Busenlechner, Robert Haas, Georg Watzek, Rudolf Fürhauser, Bernhard Pommer
- (157) **CLINICAL AND HISTOMORPHOMETRIC OUTCOMES AFTER ALVEOLAR RIDGE PRESERVATION WITH β -TCP/COLLAGEN IN THE MAXILLARY ESTHETIC ZONE: AN INTERIM REPORT**
Bozidar Brkovic*, Tamara Jurisic, Milan Vucetic, Ljiljana Tihacek-Sojic, Milan Jurisic
- (158] **SUBJECTIVE PAIN AND DISCOMFORT FOLLOWING NON-SURGICAL AND SURGICAL PERI-IMPLANTITIS TREATMENT**
Odd Carsten Koldslund*, Anne Merete Aass, Johan Caspar Wohlfahrt
- (159) **RETENTION OF IMPLANT SUPPORTED OVERDENTURES AT DIFFERENT IMPLANT ANGULATIONS; COMPARING LOCATOR AND BALL ATTACHMENTS**
Nazia Sultana*, Mahmood Suleiman
- (160) **POSTERIOR JAWS REHABILITATED WITH PARTIAL PROSTHESES SUPPORTED BY 4X4 MM OR BY LONGER IMPLANTS: A 4-MONTH LOADING RANDOMISED CONTROLLED TRIAL**
Carlo Barausse*, Marco Esposito, Roberto Pistilli, Carlo Prati, Maria Giovanna Gandolfi, Pietro Felice
- (161) **IMPLANT SUPPORTED DENTURES CAN AVOID RIDGE ATROPHY IN THE POSTERIOR MANDIBLE: A RETROSPECTIVE COHORT STUDY**
Alwin Alan Sokolowski*, Armin Andreas Sokolowski, Sandra Helga Huber, Walther Alfred Wegscheider
- (162) **CASE SERIES OF NEUROPATHIC PAIN CAUSED BY MAXILLARY DENTAL IMPLANT PLACEMENT**
Maria Devine*, Sarah Taylor, Tara Renton
- (163) **FIVE-YEAR POST-LOADING RESULTS OF A RANDOMISED, CONTROLLED, TRIAL COMPARING PATIENTS REHABILITATED WITH A CROSS ARCH DENTAL PROSTHESIS SUPPORTED BY 4 OR 6 IMPLANTS**
Silvio Mario Meloni*, Marco Tallarico, Luigi Canullo
- (164]) **OSSEOINTEGRATION OF IMPLANTS WITH DIFFERENT SURFACES PLACED DURING SINUS GRAFTING PROCEDURE. A HISTOLOGICAL AND HISTOMORPHOMETRIC STUDY IN HUMANS.**
Paolo Cardelli*, Tonino Traini, Nicola Serafini, Francesca Congedi, Bruna Sinjari, Paolo Trisi, Sergio Caputi
- (165) **THE EFFECT OF DIFFERENT IMPLANT NECK DESIGNS ON PERIIMPLANT BONE LOSS: A RANDOMIZED-CONTROLLED SPLIT-MOUTH CLINICAL TRIAL**
Ravel Sousa*, Roberto Pessoa, Leandro Pereira, Fabio Bezerra, Flavio Neves, Siegfried Jaecques, Jos Vander Sloten, Marc Quirynen, Wim Teughels, Rubens Spin-Neto
- (166) **TOPOGRAPHY, NOT CHEMISTRY, DRIVES THE BONDING OF BONE TO IMPLANT SURFACES**
Robert S. Liddell*, John E, Davies, Zhen-Mei Liu
- (167) **THE ROLE OF WELL-DEFINED NANO-TOPOGRAPHY ON OSSEOINTEGRATION: CELLULAR AND MOLECULAR EVENTS IN VIVO**
Omar Omar*, Dimitrios Karazisis, Ahmed Ballo, Hossein Agheli, Lena Emanuelsson, Sarunas Petronis

PERIIMPLANTITIS

CHAIRPERSONS

LISA HEITZ-MAYFIELD

Maintains specialist periodontal practice in Perth. Adj Professor at the University of Western Australia.

JOSE MANUEL NAVARRO

He is the chairman of the EAO Junior Committee, and practices periodontics, prosthodontics and implant dentistry in Las Palmas, Madrid and London.

SPEAKERS

(006) THE RELEVANCE OF IMPLANT MATERIALS FOR PERIIMPLANTITIS

Andrea Mombelli (Switzerland)

He is Professor and Chair, Division of Periodontology, and director of the post-graduate program in periodontology at the University of Geneva, Switzerland.

The prevalence of peri-implantitis at titanium implants is estimated in the order of 10% implants and 20% patients during 5 to 10 years after implant placement. To what extent peri-implant infections could be lowered by choosing another implant material is unknown. Zirconia ceramics have been proposed as an alternative. Some authors have suggested adverse immune reactions to titanium oxide as a possible contributing factor to biological complications. Others have pointed to the importance not only of the implant-material but also of the structure of its surface. To obtain the full picture, host-to-implant interactions have to be studied at three levels: the interface with the oral microbiota, the soft peri-implant tissues, and the bone. Pro-inflammatory cytokines in peri-implant crevice fluid may be markers for early peri-implant infections and may have value in indicating patients at risk for biological complications. However, factors other than the properties of the implant itself undoubtedly also play a role. They include the material, the surface and the macroscopic design of the abutment and the crown, and their position relative to the soft and hard peri-implant tissues. Currently, comparative data from long-term monitoring of implants made of different materials are incomplete, thus definitive conclusions cannot be drawn.

(007) THE PATIENT AND THE PROBLEM AWAITS MONDAY MORNING; WHAT DO I DO?

Stefan Renvert (Sweden)

Professor Renvert is General Secretary of EFP. He has published over 200 papers. His research focuses on treatment of peri-implantitis

After diagnosing peri-implantitis, the first decision is to either treat or remove the implant. If you decide to treat the implant it is recommended to always start with non-surgical therapy although it may not be sufficient to obtain complete healing. This allows you as a clinician to evaluate healing response and the patient's cooperation. In case healing do not occur access to the infected area is needed and both resective and regenerative surgical approaches have been employed for the treatment of peri-implantitis. In the aesthetic area and in situations with crater like defects at implants, regenerative surgical approaches have been evaluated for the treatment of peri-implantitis. It has been demonstrated that it is possible to obtain re-osseointegration after surgical cleansing of the infected implant surface. Although defect fill have been demonstrated after regenerative surgical treatment modalities, the long-term prognosis for such therapies has only been evaluated in a few studies. It has however been demonstrated that stable results can be maintained over at least a 5 year period provided an adequate maintenance program is employed. This presentation will focus on treatment planning and alternatives for the treatment of peri-implantitis.

(008) CHALLENGES IN THE TREATMENT OF PERIIMPLANTITIS

Olivier Carcuac (Sweden)

DDS, Specialist in Periodontology, Odont. Dr. (PhD)

Peri-implantitis is one of the major challenges in implant dentistry. Numerous protocols have been proposed for the treatment of the disease. This presentation will analyze the available literature on the treatment of peri-implantitis and discuss potential benefits of different procedures proposed. Results from a recently completed randomized controlled trial including 100 subjects will be presented.

(009) A COMPARISON BETWEEN PERIODONTITIS AND PERIIMPLANTITIS LESIONS

Tord Berglundh (Sweden)

Professor and Chairman, Department of Periodontology, Sahlgrenska Academy at University of Gothenburg

Peri-implantitis is a disease affecting peri-implant tissues. It is characterized by bleeding/suppuration on probing together with loss of supporting bone. Recent evaluations on the prevalence of the disease indicate

that about 20% of implant-carrying patients present with significant peri-implantitis problems and subjects with a history of severe periodontitis have higher risk for the disease. In the presentation results from recent studies on peri-implantitis and periodontitis using experimental and human sample protocols will be reported and important differences between the two conditions will be described. The understanding of disease onset and progression for peri-implantitis will be addressed from the comparison between periodontitis and peri-implantitis. Thus, peri-implant mucositis represents the obvious precursor of peri-implantitis, as does gingivitis for periodontitis. The presentation will also address the role of implant surface characteristics in relation to peri-implantitis. Results from pre-clinical in vivo studies will be presented and their clinical relevance will be discussed.

⊙ 13:00 / 13:30 (VICTORIA HALL)

OUT OF THE BOX SESSION 3

CHAIRPERSONS

BJÖRN KLINGE

Dean and Professor in Periodontology Faculty of Odontology, Malmö University, Sweden, Professor in Periodontology, Department of Dental Medicine, Karolinska Institutet, Stockholm, Sweden and President of the EAO 2015-2016.

ANN WENNERBERG

Professor and Chair, Department of Prosthodontics, Vice-Dean, Faculty of Odontology, Malmö University, Sweden.

SPEAKERS

(012) HOW TO SELECT A NOBEL PRIZE LAUREATE IN MEDICINE OR PHYSIOLOGY

Urban Lendahl (*Sweden*)

Professor of Genetics, Karolinska Institute, Stockholm, Sweden

⊙ 13:15 / 15:45

HANDS-ON SESSION

INDUSTRY HANDS-ON SESSIONS (see details pages 38-39)

⊙ 13:30 / 13:45

OFFICIAL SESSION

AWARDS CEREMONY

EUROPEAN PRIZE FOR CLINICAL RESEARCH IN IMPLANT DENTISTRY (3 AWARDS)

EUROPEAN PRIZE FOR BASIC RESEARCH IN IMPLANT DENTISTRY (1 AWARD)

EUROPEAN PRIZE FOR RESEARCH IN IMPLANT DENTISTRY: POSTER PRESENTATION (1 AWARD)

EAO HONORARY AWARDS

⊙ 13:45 / 15:15 (VICTORIA HALL)

PARALLEL SESSION 3

EMERGING SURGICAL CONCEPTS

CHAIRPERSONS

FRANCK RENOUARD

He is in Private Practice in Paris limited of Oral and Implant Surgery and visiting Professor at the Medicine Faculty of Lieges, Belgium.

ANDREAS STAVROPOULOS

Andreas Stavropoulos, DDS, PhD, Dr. Odont., is Professor and Chair in Dept. Of Periodontology, Faculty of Odontology at Malmö University, Sweden.

SPEAKERS

(043) DO WE STILL NEED AUTOGENOUS BONE FOR RIDGE AUGMENTATION OR CAN WE USE GROWTH FACTORS?**Ronald Jung** (*Switzerland*)

Head Division of Implantology and Vice Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science, University of Zürich

Further improvements in bone augmentation procedures can either be related to simplification of the clinical handling or influencing biological processes. Growth factors or bioactive proteins and peptides in combination with adequate carrier systems are nowadays able to stimulate the natural regeneration process, to accelerate bone regeneration and to increase predictability in bone regeneration therapy. Although, there are a lot of preclinical studies and a few clinical studies, growth factors are still not in general practice. One reason for that might be the lack of ideal carrier materials allowing to reduce the costs and the dosage.

This lecture will provide you with the latest clinical results on a randomized comparison between the use of autogenous bone blocks for ridge augmentation and the use of growth factors.

(044) SOFT TISSUE GRAFTS OUT OF THE BOX, WHAT CAN WE EXPECT IN CLINICS?**Otto Zuhr** (*Germany*)

DDS, Dr. med. dent., Specialist in Periodontology

Soft tissue replacement grafts have become an essential component to increase tissue volume in plastic periodontal and implant surgery. Autogenous subepithelial connective tissue grafts are more and more applied in aesthetic indications like soft tissue thickening, recession treatment, ridge preservation, soft tissue ridge augmentation and papilla re-construction. The available donor sites are the anterior and posterior palate including the maxillary tuberosity, providing grafts of a different geometric shape and histologic composition. The selective clinical application of different grafts depends on the amount of required tissue, the indication and the personal preference of the treating surgeon. But grafting procedures at all these harvesting sites are accompanied by increased patient morbidity due to the second surgical site. Therefore the development of alternatives is in the focus of science and the industry for the good of the patient. The aim of this lecture is to discuss the advantages and shortfalls of currently available substitute materials and to give a future perspective regarding the desired characteristics of soft tissue substitutes.

(045) EMERGING CONCEPTS IN MAXILLOFACIAL SURGERY: INDICATIONS FOR GRAFT MATERIALS**Henning Schliephake** (*Germany*)

Prof. Henning Schliephake is professor and chair of the Dept. of OMF Surgery at the George Augusta University in Göttingen.

Graft materials are used for the repair of periimplant bone defects in order to avoid the additional morbidity associated with the procurement of autogenous bone grafts. There is a huge variety of available materials and preparations. All materials currently in routine clinical use have to be considered as passive scaffolds that can convey osteoconductive enhancement of bone ingrowth into the defect and thereby improve defect repair to a certain extent. However, there are limitations to the use of these materials depending on the characteristics the defect under repair. In order to understand the biological rules behind bone regeneration in jaw defects, the role of the skeletal envelope for osseous repair in bone defects has to be taken into account. In this concept, the use of graft materials in defects within the skeletal envelope can be considered to provide satisfactory repair in conjunction with barrier membranes whereas defects outside of the skeletal envelope are likely to provide incomplete bone fill and/or insufficient three-dimensional stability. The present contribution gives an overview on the function and the limitations of graft materials in clinical use. Strategies to overcome these limitations by using biotechnological approaches that enhance the biological quality of graft materials are discussed.

(046) THE FUTURE OF WOUND HEALING: CAN IT STILL BE IMPROVED?**Nelson Pinto** (*Chile*)

Professor Graduate School of Periodontics and Implant Dentistry , University of the Andes, Chile.

Leukocyte- and Platelet-Rich Fibrin (L-PRF) is one of the four main families of platelet concentrates for surgical use. L-PRF is used to improve healing and promote tissue regeneration. The L-PRF clot or membrane contains most of the platelets and leukocytes present in the blood plus the platelet growth factors and stem cells that are also trapped within the fibrin network. With this architecture, L-PRF is the source of a strong and slow release of growth factors such as TGF- β 1, VEGF, IGF-1, FGF, EGF, PDGF-AB, IL-1 β , BMP-2. Through the release of these growth factors or through the production of new molecules by the leukocytes, the L-PRF membranes have strong effects on the stimulation of the proliferation of most cell types (fibroblasts, keratinocytes, pre-adipocytes, osteoblasts, bone mesenchymal stem cells) and on the differentiation of the bone cells. The possibility to use L-PRF as a biological scaffold by itself or associate with a biomimetic implant surface has open the opportunity to regenerate soft and hard tissue in such a way that was not possible before. The cumulative clinical data in: implant dentistry, alveolar socket preservation, soft tissue management and chronic wounds treatment besides the immunohistochemistry and histological findings of our animals and humans studies over the last 14 years confirm the potential that L-PRF

SUNDAY, 27TH SEPTEMBER (FULL DAY)

🕒 09:00 / 16:00

SPECIAL SYMPOSIUM

SPECIAL SYMPOSIUM IN MEMORY OF PROFESSOR PER-INGVAR BRÅNEMARK

Organised in conjunction with the EAO Annual Congress, this special symposium will be held on **Sunday September 27th at the Aula Medica Karolinska Institutet** where P-I Brånemark was awarded Honorary Doctor.



THE PERSON

- 🕒 8:30 Welcome by Daniel van Steenberghe
- 🕒 8:35 P-I and the European Association of Osseointegration (EAO) by Björn Klinge
- 🕒 8:45 P-I's approach of individual patients worldwide and his philanthropic actions by Barbro Brånemark

THE BIOLOGY OF AND CLINICAL OUTCOME OF OSSEOINTEGRATION

- 🕒 9:00 P-I's early research on osseointegration and its meaning at the histological and ultrastructural levels by Tomas Albrektsson
- 🕒 9:20 Inspired by P-I, from microcirculation to face transplants by Elof Eriksson
- 🕒 9:40 From the original machined to improved implant surfaces by Torsten Jemt and Bertil Friberg

THE VARIOUS APPLICATIONS OF OSSEOINTEGRATION

- 🕒 10:00 The need of osseointegration in restoring function with anatomy in the facial-jaw defect patient by Ragnar Adell
- 🕒 10:20 Osseointegrated amputation prostheses: 25 years of clinical and scientific development by Björn Rydevik
- 🕒 10:40 Bone-anchored facial prostheses by Marcelo Oliveira

COFFEE BREAK

PERCEPTUAL ROLE OF OSSEOINTEGRATED IMPLANTS

- 🕒 11:30 Hand surgery and the phenomenon of osseoperception by Göran Lundborg
- 🕒 11:50 Hearing aids anchored to osseointegrated implants by Anders Tjellström

LUNCH

THE MULTIDISCIPLINARY APPROACH

- 🕒 13:30 Some retrospects of the Team start procedure by Ulf Lekholm and Berit Adielson
- 🕒 13:50 The multidisciplinary approach of oral rehabilitation by means of implants and its impact on patients' well-being by Stephen Parel
- 🕒 14:10 The introduction of zygomatic implants by P-I Brånemark for advanced maxillary resorption by Chantal Malevez
- 🕒 14:30 The cooperation between surgeon and anaplastologist by Kerstin Bergström
- 🕒 14:50 The face and maxilla transplant by Eduardo Rodriguez

THE TIME OF LOADING IMPLANTS

- 🕒 15:10 From Brånemark Novum to the generalized use of immediate implant loading by Kenji Higuchi and John Brunski

P-I AND THE INDUSTRY

- 🕒 15:30 The role of P-I Brånemark on related industries and on health care by Richard Laube

HANDS-ON COURSES (ORGANISED BY INDUSTRY PARTNERS)

LEARN FROM EXPERTS DURING A SELECTION OF HANDS-ON SESSIONS

FRIDAY, 25TH SEPTEMBER



DENTSPLY IMPLANTS

MANAGEMENT OF SLOPED RIDGES USING OSSEOSPEED™ PROFILE EV WITH A DIGITAL APPROACH

Speaker: Christian Mertens, Germany



08:15 / 10:45
(ROOM K16)

The workshop focus is on a digital treatment concept for the new OsseoSpeed Profile EV, the second generation of the uniquely shaped implant specifically designed for sloped ridges. The implant design maintains soft tissue and can help reduce the need for augmentation. OsseoSpeed Profile EV has all the benefits of the ASTRA TECH Implant System EV, including the unique one-position-only feature for easy placement of all indexed components.

From surgical planning and performance to placing the final crown, the entire digital workflow will be demonstrated with SIMPLANT, as well as the latest developments and services of the ATLANTIS portfolio for patient-specific restorations – a perfect match for predictable and long-term esthetic restorations.

Discover the advantages of OsseoSpeed Profile EV with a digital approach. No technical knowledge or previous experience with the products or techniques is required.



NOBEL BIOCARE

TEMPORARY SOLUTIONS – HOW TO AVOID PITFALLS IN THE DESIGN FOR AN OPTIMAL PROVISIONAL RESTORATION

Educator: Dr. Roland Glauser (Switzerland)



08:15 / 10:45
AND 13:15 / 15:45
(ROOM K12)

Learning objectives:

- Biologic and prosthetic rationales behind ideal implant positioning
- What to take into consideration to optimize provisional restorations and final outcomes
- Protocols and products for optimally and non-optimally positioned implants
- Understand the benefits when using the new screw-retained angulated screw channel (ASC) abutment.



DENTSPLY IMPLANTS

BONE HARVESTING AND AUGMENTATION TECHNIQUES – WHAT ARE THE BASICS, WHERE ARE THE LIMITS?

Speaker: Frank Zastrow, Germany



13:15 / 15:45
(ROOM K16)

This workshop addresses clinicians with experience in augmentation, with an interest in learning more about bone harvesting and augmentation techniques for various clinical situations.

During the workshop, clear guidelines for achieving predictable results in various kinds of bone defects will be given. When and why is autogenous bone still the 'gold standard'? When is the use of bone graft material or a combination of both the preferable option? Discuss these questions and more with Dr. Frank Zastrow.

During the hands-on session, relevant soft tissue management and bone harvesting techniques will be demonstrated and trained. The use of SYMBIOS Biphasic Bone Graft Material and SYMBIOS Collagen Membrane SR will be practiced for socket preservation, immediate implant placement and sinus floor elevation on synthetic anatomical soft and hard tissue models.

SATURDAY, 26TH SEPTEMBER**MECTRON****PIEZOSURGERY HANDS-ON**

Speakers: Prof. Tomaso Vercellotti (Italy)



08:15 / 10:45

AND 13:15 / 15:45

(ROOM K24)

Prof. Tomaso Vercellotti Practical exercises on animal bones with Piezosurgery. During the exercises the following techniques will be trained: osteoplasty, osteotomy and ridge expansion, bone block grafting, corticotomy, implant site preparation.

Piezoelectric Bone Surgery sets a new paradigm in Bone Surgery through micrometric and selective cuts, maximum intra-operative control and fast tissue healing.

This course is an introduction to the clinical advantages of the main piezoelectric techniques developed by the author.

For an easier learning path, the practical course is focused on specific applications on animal bones. Furthermore, the operating efficiency of every single surgical protocol envisages, for any attendee, a proper surgical ability thanks to the direct teaching of Piezoelectric Bone Surgery inventor.

**NOBEL BIOCARE****IMPROVING CONFIDENCE IN HARD AND SOFT TISSUE MANAGEMENT. EXPERIENCE THE NEW NOBELPARALLEL CONICAL CONNECTION (CC) IMPLANT IN A COMPROMISED SITE**

Educator: Dr. Giorgio Tabanella (Italy)



08:15 / 10:45

AND 13:15 / 15:45

(ROOM K12)

Learning objectives:

- Biological and clinical evaluations and protocols to optimize the esthetic results with implant therapy
- Manipulation of hard and soft tissues: practical tips and tricks
- Hands-on experience using creos xenoprotect and the benefits of the superior handling characteristics
- Gain practical experience through use of pig jaws

SATELLITE INDUSTRY SYMPOSIA

THURSDAY, 24TH SEPTEMBER

Geistlich
Biomaterials

☺
10:00 / 12:00
(ROOM K1)

GEISTLICH BIOMATERIALS

MANAGING THE ALVEOLAR SOCKET FOR IMPLANT PLACEMENT

Speaker: Dr. Maurício Araújo (Brazil)

It is well established that the alveolar socket will undergo significant dimensional changes following tooth extraction. It may lead to more complex implant placement. Thus, the aim of this Symposium will be to describe the tissue alterations that take place in the alveolar socket after extraction and to discuss the clinical procedures that can be performed to compensate for it. Clinical cases will be presented to demonstrate the indications, surgical technique and clinical outcome of such procedures.

IMPLANTS AND GBR IN DEMANDING CASES: HOW CAN WE BE REALLY SUCCESSFUL?

Speaker: Dr. Ueli Grunder (Switzerland)

In most of the demanding cases where we have to deal with implants in the aesthetic zone, the most challenging step is to create enough bone and soft tissue, especially around the implant head and in the papilla area. It is very technique sensitive to get predictable results. During this lecture, concepts for larger bone augmentation by means of form-stable membrane for GBR and an appropriate soft tissue management will be discussed. The following topics will be covered: Selection of the ideal technique, the type of incision, the augmentation techniques (membranes, graft material), and the appropriate suturing technique.

OSSTELL

☺
10:00 / 12:00
(ROOM A2)

OSSTELL

HOW TO REDUCE TREATMENT TIME AND BETTER MANAGE PATIENTS WITH RISK FACTORS – USING THE ISQ SCALE TO MAKE YOUR TREATMENT PROTOCOLS MORE PREDICTABLE

Speakers : Dr. Marcus Dagnelid (Sweden), Pof. Peter Moy (USA), Prof. Daniel Buser (Switzerland)

Requests for shorter treatment times along with a growing number of patients with risk factors place greater demands on dentists and available technology. These speakers represent more than 30 years of combined experience with Osstell and the ISQ scale in daily practice and will in this lecture discuss how to reduce treatment time and manage patients with risk factors, while reducing the risk of unnecessary costs related to premature loading.

Dr. Dagnelid will talk about his unique single tooth concept as well as Resonance Frequency Analysis (RFA) and how to use the ISQ scale in daily practice.

Prof. Moy will discuss how he uses ISQ measurements to make decisions on implant placement protocol and loading protocol every single day in practice to enhance long-term clinical outcomes.

Prof. Buser will lecture about his single tooth protocol with sinus lift and reduced treatment time, from 8 months to 8 weeks.

During this unique and interactive session, you will get the opportunity to ask your questions to the doctors' and to get involved in the discussion.

OSSTELL & THE IDX

The Osstell IDx is a fast, non-invasive and easy to use system to determine implant stability and to assess the process of osseointegration – without jeopardizing the healing process. It provides the accurate, consistent, and objective information needed to make well-founded decisions.



MIS IMPLANT

NEW V3 IMPLANT SYSTEM – PRACTICAL INNOVATION FUNCTIONAL & ESTHETIC SOLUTIONS FOR PATIENTS WITH MISSING TEETH, UTILIZING THE NOVEL V3 IMPLANT SYSTEM

Speaker: Dr. Eric Van Dooren (Belgium)

10:00 / 12:00
(ROOM A3)

The V3 implant concept naturally emerged from current biologic and biomechanical understandings, following years of clinical experience backed by vast scientific data in the field. The system excels in bone and soft tissue preservation, high immediate stabilization, excellent control over placement and provides a wide range of innovative simplified prosthetic components, which all together allow for outstanding healing and maturation response of the surrounding tissues. The V3 Implant System will be introduced and explained in-depth, with a variety of clinical examples.

V3 IMPLANT SYSTEM: PRODUCT OVERVIEW

Speaker: Mr. Elad Ginat (Israel)

The V3 implant has a unique triangular coronal design, which immediately affects the response of the surrounding hard and soft tissues resulting in extraordinary biologic and esthetic results. The design of the implant head, threads and core, as well as the surgical kit and an individual final drill, simplify the surgical procedure and reduce the risk of complications.



DENTSPLY IMPLANTS

INSPIRATION TALKS WITH DENTSPLY IMPLANTS

CURRENT STRATEGIES FOR LIMITED BONE SITUATIONS

Speaker: Lyndon Cooper (United States), Marco Degidi (Italy), Fouad Khoury (Germany), Frauke Müller (Switzerland)

16:30 / 18:30
(VICTORIA
HALL)

Restoring patients' quality of life requires the freedom to create predictable and lasting patient-specific solutions by exploring the variety of possibilities, including an extensive and comprehensive product portfolio for all indications. Inspiration TALKS with DENTSPLY Implants presents a panel of five experienced clinicians with a solid background in research and science. They will discuss current strategies for implant treatment in limited bone situations, covering various kinds of indications from the edentulous situation to single tooth replacement with high esthetic demands, and the scientific rationale behind their approaches.

"I believe that in a modern society with state-of-the-art healthcare we should be able to help reconstruct all patients regardless of their presenting bone volume. With the advent of short and narrow implants, as well as the development of a wide range of regenerative materials and intra-oral bone harvesting techniques, it is both desirable and possible to consider all possible treatment strategies for limited bone situations, while at the same time reducing the trauma to the patient", says moderator Michael Norton.

You can look forward to an interactive symposium with inspirational talks and lively discussions, considering the perspectives of both the clinician and the patient.

Simultaneous translation to Russian and Chinese will be provided.

For more information, visit our webpage www.dentsplyimplants.com and follow us on Facebook, Twitter and YouTube.



STRAUMANN

EVIDENCE BASED TREATMENT SOLUTIONS

INDICATION BASED SOLUTIONS FOR HARD AND SOFT TISSUE REGENERATION

Speaker: Horn-Lay Wang (United States)

16:30 / 18:30
(ROOM K1)

SINGLE IMPLANT RESTORATIONS – WHICH SOLUTION IN WHICH INDICATION?

Speaker: Irena Sailer (Switzerland)

SURGICAL AND PROSTHETIC SOLUTIONS FOR THE EDENTULOUS PATIENT

Speaker: Daniel Wismeijer (The Netherlands)

Moderator: Chatchai Kunavisarut (Thailand)

Please check our website for the speakers' abstracts, CVs and program updates: www.straumann.com/eao2015



ZIMMER BIOMET

IMPLANTOLOGY IMPROVEMENTS FOR TODAY'S DENTAL PRACTICE

- 3i T3@ Short Implant*: Clinical Tips For Success In The Daily Practice - Dr. Francesco Amato
- The Science Of Implant-Abutment Sealing: 3i SureSeal® Technology - Dr. Stavros Pelekanos
- Patient Specific Allograft Blocks. Next Generation Of Guided Bone Regeneration (GBR) - Dr. Stefan Fickl

**This product is not available in the United States of America. This product is also not available in certain other markets.*

☉
16:30 / 18:30
(ROOM A2)

FRIDAY, 25TH SEPTEMBER



NOBEL BIO CARE

REFINEMENT IN TREATMENT PROTOCOLS TO IMPROVE PATIENT BENEFITS – GO ORIGINAL

This year's forum will address the entire spectrum of treatment concepts from single posterior teeth to some of the most advanced reconstructions. Get acquainted with the latest technologies and protocols presented by renowned clinicians and researchers who will share their experiences during the two-hour session.

GO ORIGINAL - ENHANCE THE LONG-TERM INTEGRITY OF YOUR IMPLANTS

Speaker: Dr. Stefan Holst

The speaker will present how implants and restorations have been designed to work as a system to support long-term success of the implant treatment.

BIOLOGICAL CONSIDERATIONS FOR OPTIMIZED CLINICAL PROCEDURES

Speaker: Dr. Christer Dahlin

This lecture covers why, when and how to support outcomes using GBR procedures for optimizing soft tissue health and esthetics around implants.

REFINEMENTS IN MANAGING THE TERMINAL / FAILING DENTITION: A CONTINUED EVOLUTION

Speaker: Dr. Wolfgang Bolz

The presentation will cover how to manage rehabilitation strategies for the edentulous patient. The All-on-4® treatment concept and beyond - it's about more than four implants.

BRINGING TOGETHER NEW PRODUCT INNOVATIONS IN A CEMENT-FREE POSTERIOR SOLUTION

Speaker: Dr. Eirik Salvesen and Mrs Åsa Sjöholm

Clinical outcomes depend on both the implant and the restoration. The new NobelActive WP and NobelParallel Conical Connection implants are designed for the clinical needs of the posterior. Get insights into an immediate implant placement procedure and the screw-retained translucent FCZ (full-contour zirconia) as the final implant crown.

Moderator: Dr. Bertil Friberg

☉
16:45/18:45
(ROOM K1)



3-SHAPE

DIGITAL IMPLANT BOOT CAMP

Speakers: Dr Simon Kold and Frederik Rapp

Don't miss this hands-on workshop and presentation of the digital implant treatment process. From intraoral scanning, implant planning and drill guide design to designing and manufacturing the final restoration (crown and abutment), you will experience first-hand the game-changing benefits of digital implantology.

Dr. Simon Kold, and lab owner, Frederik Rapp, will present a digital implant case from A to Z. You'll see how digital implantology is enabling them to improve clinical and restorative outcome, save costs and reduce turn-around time.

You'll then personally walkthrough the digital workflow in a hands on workshop. Dr. Kold and Mr. Rapp will serve as your guides. Answering your questions and sharing both their clinical and laboratory expertise to enable your clinic and partner lab to quickly begin taking advantage of the digital implant workflow.

☉
16:45/18:45
(ROOM A2)



USHIO

NEW FRONTIERS IN OSSEointegration AND PERI-IMPLANT TISSUE MANAGEMENT UTILIZING PHOTOFUNCTIONALIZATION

Speakers: Prof. Dr. Takahiro Ogawa (UCLA School of Dentistry, USA), Dr. Akiyoshi Funato (Nagisa Clinic and 5-D Japan, Japan)

16:45/18 :45
(ROOM K11)

The symposium will discuss about a novel, holistic approach to various challenges in current implant dentistry, called photofunctionalization. Photofunctionalization is a chairside, rapid conditioning of dental implants and other related components via UV light immediately before their use. Because photofunctionalization significantly improves cell- and tissue-biocompatibility of the materials, the spectrum of its application is not just limited to implants for better osseointegration and marginal bone stability, but also to abutments and Ti mesh for better soft tissue seal and bone regeneration, respectively. Further, recent studies uncovered anti-bacterial property of photofunctionalized titanium surfaces, which is expected to be a novel strategy to prevent peri-implantitis.

Moderator: Prof. Dr. Wael Att (School of Dentistry, University of Freiburg, Germany)

BREAKFAST INDUSTRY SYMPOSIUM

FRIDAY, 25TH SEPTEMBER



SUNSTAR

DENTAL MEMBRANE TECHNOLOGY IN TODAY'S PRACTICE (FROM GTR THROUGH GBR TO TREATMENTS AROUND PERI-IMPLANTITIS)

Speakers: Dr Ion Zabalegui (Bilbao) and Dr Jean Louis Giovannoli (Paris)

07:45 / 8:45
(ROOM K11)

In this energetic workshop, Dr Zabalegui and Dr Giovannoli plot a course through the history of dental membranes from inception as regenerative treatments for periodontal surgery (biocompatibility, cell occlusivity, space making, tissue integration, manageability) to barriers in implant practice where retention of unstable particulate bone grafts is required. The journey will briefly consider more recent developments as soft tissue matrixes, carriers for pharmaceuticals or growth factors and application as resorbable alloplastic matrix-barriers in the treatment of peri-implant infections.

Delegates attending this workshop will gain insights which help match design criteria with intended treatment application.

KICK-START YOUR FRIDAY MORNING WITH THE LATEST IN SCIENCE,
A CUP OF COFFEE AND A PASTRY!

CHAIRPERSONS & INVITED SPEAKERS CVs



TOMAS ALBREKTSSON *(Sweden)*

Tomas Albrektsson joined P-I Branemark's laboratories at the University of Gothenburg in 1967 and has since authored a paper or two on osseointegration. Today, Albrektsson is professor emeritus of the dept of Biomaterials of Gothenburg University and visiting professor of the dept of Prosthodontics, Malmö University Sweden.



GIL ALCOFODARO *(Portugal)*

An industrious learner and a fully committed professor, Dr. Gil Alcoforado has dedicated his life to scientific research in periodontology and implant rehabilitation. His career, spanning 35 years, has been fulfilled with several lecturing positions at some of the most reputable universities in the dental area in Europe and USA. He has also been actively engaged with an intensive social entrepreneurship and volunteering work in oral care, running oral hygiene instruction campaigns to parents and children in countries where help is paramount.

In 1985, Dr. Gil Alcoforado became the first periodontist in Portugal. That same year he joined The Philip Dear Foundation, and is today the Chairman of the International College of Dentists - European Section.

He was also the founder and former president of the Portuguese Periodontal Society, as well as former President of the European Federation of Periodontology. He is a Board member of the EAO since 2012.

A past chairman of the Iberian section, he is currently a fellow of the International Team for Implantology, and a fellow of the Pierre Fauchard Academy.



PER ASPENBERG *(Sweden)*

Per Aspenberg is an orthopedic surgeon from Sweden, with an interest in experimental research. He pioneered the study of bisphosphonates in orthopaedics, starting with animal experiments leading to randomized clinical trials showing improved fixation of knee replacements and other implants. In a recent randomized clinical trial, dental implant fixation was improved by a bisphosphonate coating. Per described already in 2006 that osteonecrosis of the jaw could be best explained by the ordinary antiresorptive effects of bisphosphonates, without a need to add unknown factors such as local toxicity.



JONAS BECTOR *(Sweden)*

Jonas Peter Beक्टर, DDS, PhD (med dr) graduated in dentistry from the University of Lund, Sweden in 1988, received his specialist degree in Oral Surgery in 2001 and his PhD (med dr) at the University in Gothenburg 2006. Dr Beक्टर was a visiting researcher and clinician at the Loma Linda University and Mayo Clinic in the US in 2000 and 2001. Since 2012 Dr Beक्टर has been the head of the department of Oral & Maxillofacial Surgery at the University of Malmö, Sweden. Dr Beक्टर's main research interest is advanced implant surgery.



THABO BEELER *(Switzerland)*

Thabo Beeler is a Research Scientist at Disney Research Zurich, where he is heading the Capture and Effects group. Prior to that he obtained his PhD from ETH Zurich, for which he was awarded with the Eurographics PhD award. Over the past 5 years, Thabo has been working on digital humans and reflectance acquisition, focusing on high-quality facial geometry reconstruction and dense performance capture. He has published several papers to these topics and has contributed to different feature films that involve digital humans.



TORD BERGLUNDH (Sweden)

Dr. Tord Berglundh is Professor and Chairman at the Department of Periodontology, The Sahlgrenska Academy at University of Gothenburg. He is Associate Editor of the textbook Clinical Periodontology and Implant Dentistry and the journals Clinical Oral Implants Research and Journal of Clinical Periodontology, member of the editorial board of Journal of Dental Research and serves as a referee in several other journals. Dr. Berglundh has received numerous awards and produced about 200 scientific publications within the field of dental implants, periodontology, immunology, genetics, tissue integration and regeneration.



MICHAEL BORNSTEIN (Switzerland)

Michael Bornstein is Associate Professor at the Dept. of Oral Surgery and Stomatology, University of Bern, and runs a private practice dedicated to oral diagnostics in Zurich. He obtained his dental degree (1998) and thesis (Dr. med. dent., 2001) at the University of Basel. He continued with a specialisation in oral surgery in Basel and Bern. In 2009, he obtained the Habilitation (Privatdozent) and in 2014 he became Associate Professor in the field of „Oral Surgery and Stomatology“. His fields of research include cone beam computed tomography (CBCT), stomatology/oral medicine, GBR procedures with bioresorbable membranes and dental implants.



RICKARD BRÅNEMARK (Sweden)

Rickard Brånemark is an orthopaedic surgeon working with osseointegrated amputation prostheses for more than 20 years. He has been training surgeons in all over the world in this procedure. He is currently a senior consultant at the Centre for Advanced Reconstruction of Extremities (C.A.R.E.) at the Department of Orthopaedics, University of Gothenburg, Sweden and Visiting Professor and co-Director of International Centre for Osseointegration Research, Education and Surgery (iCORES) at the Department of Orthopaedics, University of California, San Francisco, USA. In 2013 he led a team of surgeons to treat a patient with a transhumeral amputation using implanted electrodes.



LAWRENCE E BRECHT (United States)

Lawrence E. Brecht, DDS, is the Director of Maxillofacial Prosthetics at NYU College of Dentistry in the Advanced Education Program in Prosthodontics. He has a joint appointment at the Department of Plastic Surgery of NYU Langone Medical Center where he is Director of Dental Services. He is the immediate past-president of the Greater New York Academy of Prosthodontics as well as a past-president of the American Academy of Maxillofacial Prosthetics. He is a frequent contributor to the plastic and maxillofacial prosthetics literature. He also maintains a practice limited to prosthodontics and maxillofacial prosthetics in Manhattan.



RINO BURKHARDT (Switzerland)

Rino Burkhardt graduated from the University of Zurich and received his doctorate from the Medical Faculty of the same University. He is an EFP (European Federation of Periodontology) certified specialist in periodontology and received his Masters degree from the Medical Faculty of the University of Berne (MAS in Periodontology).

Since 1995 he runs a private clinic in Zurich, limited to periodontology and implantology. Besides he holds an appointment as an honorary associate professor at the University of Hong Kong. He published numerous articles and book chapters and got a research prize from the European Federation of Periodontology. His an active member of the European Academy of Esthetic Dentistry (EAED), the European Association for Osseointegration (EAO), the Swiss Society of Periodontology (SSP) and Board member of the Swiss Society of Implantology (SGI).



DANIEL BUSER (Switzerland)

Dr. Daniel Buser is Professor and Chairman at the Department of Oral Surgery at the University of Bern. He was President of several associations including the EAO (1996/97), the Swiss Society of Oral Implantology (1999-2002), and the ITI (2009-13). He received several scientific awards by the ITI, the AO, the AAP and the AAOMS. Recently, he was honored with the Brånemark Osseointegration Award by the Osseointegration Foundation in the USA (2013). His main research areas are in tissue regeneration around dental implants, surface technology and Guided Bone Regeneration. He has authored and co-authored more than 300 publications and several text books.



OLIVIER CARCUAC (*Sweden*)

Head of Periodontics at the clinic Mölndal Hospital in Sweden, Dr. Olivier Carcuac is a certified specialist in Periodontics and is also a researcher at the Department of Periodontology at the Institute of Odontology, University of Gothenburg in Sweden. Active in many international dental associations, his interest includes microsurgical techniques for the treatment of gingival recessions.



LUCA CORDARO (*Italy*)

Dr. Luca Cordaro is chair of the Department of Periodontology and Prosthodontics at the Eastman Dental Hospital in Rome. He graduated in Medicine at the University of Roma "La Sapienza" where he also got a degree in Dentistry. He holds a Ph. D. degree and is a certified specialist in oral surgery. He also works, together with his brother, in a private practice founded in 1957 by his father. Dr Cordaro is author or co-author of more than 70 papers published in Italian or international journals and has lectured in Europe, Asia, North and South America. In 2007 he won the H. Goldman Prize for Clinical Research of the Italian Society of Periodontology. He is author of different book chapters and coauthor of the books "The SAC classification in Implant Dentistry" and ITI Treatment Guide 7 "edited by Quintessence. He is active member of the Italian Society of Osseointegration and Fellow of the ITI (International Team for Implantology). In the ITI he serves as member of the Board of Directors, Chairman of the Study Club Committee and Chairman for the Italian Section. He has been elected in the EAO Board in 2010 and serves as Chair of the Congress committee and Secretary General. His professional interests are Periodontology, Implantology and Oral surgery with a special interest regarding the reconstructive treatment of alveolar atrophies.



JAN COSYN (*Belgium*)

Prof. Dr. Jan Cosyn received his degree in Dentistry at the Vrije Universiteit Brussel (VUB) in 2000. He specialized in Periodontology and Oral Implantology at the same institution and combined his training with a PhD program. Since 2006, Dr. Cosyn works in private practice and has an academic position at Ghent and Brussels University. Since 2014 he became Chairman of the Department of Periodontology and Oral Implantology in Brussels. As his main task involves clinical research he published over 70 scientific articles.



CHRISTER DAHLIN (*Sweden*)

Dr Christer Dahlin is a Professor in Oral Surgery and Guided Tissue Regeneration at Department of Biomaterial, University of Gothenburg, Sweden. He is an executive board member of the Osteology Foundation and member of the editorial board for several journals in this field. Professor Dahlin has over twenty-five years of experience in implant treatment and related research and is considered one of the pioneers in the development of the concept of Guided Bone Regeneration. He has published numerous articles and textbooks on these topics. He frequently travels worldwide to lecture, conduct research and teach on this and other implant-related topics.



BO DANIELSEN (*Denmark*)

Head of School of Oral Health Care, Faculty of Health and Medical Sciences, University of Copenhagen, Denmark since 2010. Present President of the Danish Society of Periodontology and Dental Health Without Borders - DK. D.D.S. from Royal Dental College, Aarhus, Denmark (1986), Master of Business Administration in Education, South Bank University, London, UK (2000) and Master of Information Technology, IT Learning (MIL), It-Vest, Denmark (2003).



HUGO DE BRUYN (*Belgium*)

Professor and chairman of the department of periodontology & oral implantology at Ghent University Belgium; director of international postgraduate oral implantology program and postgraduate specialist program periodontology; chairman of the education committee of the dental curriculum. The research of his group focuses on soft and hard tissue regeneration, factors related to implant success, effect of smoking, immediate implant loading, overdenture treatment and patient-reported outcome measures. He has given more than 500 international lectures/courses; Visiting Professor at the Department Prosthodontics of Malmö University Sweden.



JAN DERKS (Sweden)

Jan Derks is a certified specialist in periodontics since 2009. He received his training in Gothenburg and is currently a research graduate at the Department of Periodontology at the Institute of Odontology, University of Gothenburg. He will defend his PhD thesis in October 2015. His research is focused on biological complications associated with dental implants. Dr. Derks also has a position at the specialist clinic of periodontics in Gothenburg, Sweden.



VINCENT FEHMER (Switzerland)

Vincent Fehmer received his dental technical education and degree in Stuttgart, Germany in 2002. From 2002 to 2003 he performed fellowships in Great Britain and the US in Oral Design certified laboratories. From 2003 to 2009 he worked at an Oral Design certified laboratory in Berlin, Germany. In 2009 he received the degree as a MDT in Germany. From 2009 to 2014 he was the chief dental technician at the Clinic for Fixed and Removable Prosthodontics in Zurich, Switzerland. Since 2015 he is dental Technician at the Clinic for Fixed Prosthodontics and Biomaterials in Geneva, Switzerland.



STEFAN FICKL (Germany)

2003 Dental degree at University Erlangen, Germany 2004 Doctor Thesis 2004-2007 Postgraduate Education in Periodontology and Implant Dentistry at the Institute of Periodontology and Implantology (IPI), Munich, Germany 2007-2009 Assistant Professor in the Department of Periodontology and Implant Dentistry (Chair: Dr. Dennis Tarnow) at New York University (USA) since 2009 Associate Professor in the Department of Periodontology, University of Würzburg, Germany 2011 Habilitation (Privat-Dozent) and Venia legendi Dr. Fickl is part of the editorial board of various dental journals, international speaker in the field of Periodontology and Implant Dentistry and author of more than 50 publications and book chapters.



THOMAS FLEMMIG (Hong Kong)

Professor Thomas Flemmig earned his dental degree at the University of Freiburg and received training in Oral Surgery at the University of Hamburg and in Periodontics at the University of California Los Angeles (UCLA). He holds a Dr. med. dent. degree from the University of Freiburg, a Dr. med. dent. habil. degree from the University of Würzburg, and an M.B.A. as well as a certificate in Health Sector Management from Duke University; he is board certified in Periodontics in Germany. He is Dean of the Faculty of Dentistry, University of Hong Kong and Director of the Prince Phillip Dental Hospital.



JONAS FRISEN (Sweden)

Jonas Frisen got his MD and PhD degrees at the Karolinska Institute and was a postdoctoral fellow at BMS, Princeton, USA. He is the Tobias Foundation Professor of Stem Cell Research at the Karolinska Institute since 2001.



KLAUS GOTFREDSSEN (Denmark)

Professor and chairman at Department of Oral Rehabilitation, University of Copenhagen. Ph.d. degree from Copenhagen in 1990 and ph.d., odont. dr. degree from Department of Periodontology, Göteborg University in 2001. Major subject areas for research is implant dentistry and prosthetic dentistry and oral health related quality of life. Klaus serves as reviewer for a number of peer-reviewed journals and has lectured extensively in the field of Implant Dentistry throughout the world. He has been member of the EAO since 1992 and was president for EAO in 1999, where he organized the EAO Congress in Copenhagen.



MARIO GROISMAN *(Brazil)*

Mario Groisman was graduated at University of State of Rio de Janeiro in 1981. A year later he began his specialist training in Periodontology at the same University. In 1984 he moved to Sweden to be involved in the Master of Dental Science program at Lund University, Malmo. In 1988 he returned to Rio de Janeiro and start his clinical work with osseointegrated implants. In 1998 he was appointed Professor and head of Periodontology Department at Nova Iguacu University. In 1990 he became one of the first recognized Brazilian specialists in Oral Implantology. Dr. Groisman structured Oral Implantology specialist programs in 5 different universities and was also involved as professor on the master degree of Oral Implantology at UNIGRANRIO University. He worked as Dean of Estácio de Sá Dental School, Rio de Janeiro, Brazil. Dr. Groisman published more than 60 scientific papers, 2 books and has been lecturing in more than 550 courses and conferences in Brazil and abroad.



CHRISTOPH HÄMMERLE *(Switzerland)*

Christoph Hammerle is the Chairman Clinic for Fixed and Removable Prosthodontics and Dental Material Science and the Director of Student Affairs for the Center for Dental Medicine, University of Zurich. He is certified in prosthodontics as well as in periodontics. His clinical focus is on the comprehensive treatment of complex, partially edentulous patients applying all available options of reconstructive dentistry including dental implants. Prof. Hammerle's main scientific interests encompass biological and prosthetic aspects of fixed reconstructions on teeth and implants as part of the overall restorative treatment concept. Prof. Hammerle is a member of various scientific organizations. Presently, he is a board member of the Swiss Society for Reconstructive Dentistry, Chairman of the Committee for Specialization in Reconstructive Dentistry in Switzerland, President of the Osteology Foundation, President of the Dental Campus Association. He has served on the organizing committees of several national and international conferences including: Swiss Society of Periodontology, European Association for Osseointegration (EAO) Annual Congresses, EAO Consensus Conferences 2006, 2009, 2012, 2015, and the 10th Workshop of the European Federation of Periodontology 2013. He has published over 200 scientific and clinical articles and served on the review boards of several scientific journals in the field.



DAVID HARRIS *(Ireland)*

David Harris is a specialist oral surgeon and Clinical Director of Blackrock Clinic Dental Specialties in Dublin, Ireland. He commenced placing dental implants in 1983 as a member of one of the pioneer teams working with Professor P.I. Branemark. He is an Associate Professor at Trinity College Dublin where he undertakes his teaching, research and academic activities. He is a Visiting Professor to the Medical University of Warsaw. A founder member, and twice past president of the European Association for Osseointegration and served as a member of Council for over 10 years. He has been Scientific Chairman of the annual EAO Scientific Congress in 1994, 2008 and 2013. He has published and lectured extensively on dental implants and recently published a book for the general public entitled "The Dental Amputee". He was chairman of the expert panel that produced the EAO guidelines for the use of diagnostic imaging in implant dentistry published in the Journal of Clinical Implant Research in 2002 and updated in 2011. He was a member of the board of directors of Dental Protection Ltd for 10 years and remains as an advisor to this organisation.



LISA HEITZ-MAYFIELD *(Australia)*

Professor Heitz-Mayfield received a Masters in Periodontology (1996) and Odont Dr (1998) from Lund University, Sweden. Awarded an ITI scholarship at the University of Berne, Switzerland where she became Head of the Oral Microbiology Research Laboratory, from 1999-2003. Received the André Schroeder Research Prize in Implant Dentistry. Current positions include Adjunct Professor at the International Research Collaborative, The University of Western Australia, Associate Professor at The University of Sydney, and at The University of Hong Kong. Chair of the ITI Research Committee, and member of the ITI Board of Directors. Maintains a specialist periodontal practice in Perth, Western Australia.



GUIDO HEYDECKE (Germany)

Professor & Chair, Department of Prosthodontics University Medical Center Hamburg-Eppendorf Specialist in Prosthetic Dentistry and Implantology 1994 D.D.S., School of Dentistry MH Hannover 1995 – 1998 Assistant Professor, Department of Prosthodontics, University of Bonn and University Hospital Freiburg, Germany 1999 – 2002 Visiting Professor, University of Michigan (Ann Arbor, USA) and McGill-University (Montreal, Kanada) 2003 Associate Professor, Department of Prosthodontics, University Hospital Freiburg /Germany 2006 Professor, Department of Prosthodontics, University Hospital Freiburg /Germany. 2007 Professor and Chair, Department of Prosthodontics, University Medical Center Hamburg-Eppendorf 2008 Editor of the Deutsche Zahnärztliche Zeitschrift (DZZ, German Dental Journal)



PALLE HOLMSTRUP (Denmark)

From 1988 Professor and Chairman, Section of Periodontology. From 2013 also head of Oral and Maxillofacial Surgery, School of Dentistry, University of Copenhagen. PhD 1976, Specialist, Oral Surgery 1983, DrOdont 1985. 10 years at Dept. Oral and Maxillofacial Surgery, University Hospital of Copenhagen. Hon. Doctor, Sahlgrenska Academy, Göteborg University 2005. Also Professor and Chair, Section of Periodontology, School of Dentistry, Aarhus University 2008-12. Postgraduate education with more than 400 courses, seminars and guest lectures at home and abroad. Current research on the relationship between periodontal disease and general diseases. 240 publications in national and international journals and textbooks. H-index: 38.



MARKUS HÜRZELER (Germany)

He received his dental degree from the University of Zurich, his certificate as a specialist in Periodontics from the Swiss Society of Periodontology, the Docent (Associate Professor) degree from the Department of Prosthodontics at Albert-Ludwigs University in Freiburg, Germany, and his certificate in Prosthodontics from the German Society of Prosthodontics. He is Clinical Associate Professor at the Albert-Ludwigs University of Freiburg, Department of the Operative Dentistry and Periodontology and Clinical Associate Professor at the University of Texas in Houston, Texas. Dr. Hürzeler has produced more than 100 scientific publications within the field of implants, periodontology and tissue regeneration and is a regular national and international lecturer. He maintains a private practice focused on periodontics and implant dentistry in Munich.



FLEMMING ISIDOR (Denmark)

Flemming Isidor, Professor, D.D.M., Ph.D., Dr.Odont. D.D.M. (1976), Ph.D. (1981) and Dr.Odont.(1988). At Aarhus University in Denmark: Research associate in periodontology (1977-1984), associate professor in prosthetic dentistry (1984-2001), and professor and chairman in prosthetic dentistry (2001-). Furthermore, head of dentistry (1999-2004). Main research interests are prosthetic dentistry, oral implantology and periodontology.



REINHILDE JACOBS (Belgium)

Reinhilde Jacobs is dentist, Doctor in Dental Sciences and periodontologist (ULeuven), Master in Dental Radiology (ULondon) and Dr Honoris Causa ("Iuliu Hatieganu" University of Medicine and Pharmacy, Cluj-Napoca). She is full professor at the University of Leuven and visiting professor at the Dalian Medical University (China). R. Jacobs is coordinating the omfs impath research group of the KU Leuven. She is EAO board member, European Director of the International Association of DentoMaxilloFacial Radiology, and associate editor of Clinical Oral Investigations, European Journal of Oral Implantology, and Oral Radiology.



RYO JIMBO (Sweden)

Ryo Jimbo received DDS at Nagasaki University in 2004 and then at Gothenburg University in 2014. He defended his thesis in 2007 and received specialist training in Prosthodontics and in Oral & Maxillofacial Surgery. From 2009, he worked as visiting researcher at the Department of Biomaterials, Gothenburg University. At present, he is Associate Professor at the Department of Prosthodontics, and Department of Oral Surgery and Oral Medicine at Malmö University, and is dedicated to education, clinical practice and implant research. He has published more than 110 articles and lectures internationally. He is in the editorial board of CIDRR and JOMR..



RONALD JUNG (Switzerland)

Ronald Jung is trained in oral surgery, prosthodontics and implant therapy. He is currently Head Division of Implantology and Vice Chairman at the Center of Dental Medicine of the University of Zürich Clinic for Fixed and Removable Prosthodontics and Dental Material Science. In 2006 he worked as Visiting Associate Professor at the Department of Periodontics at the University of Texas Health Science Center at San Antonio, USA (Chairman: Prof. Dr. D. Cochran). 2008 he finalized his „Habilitation“ (venia legendi) in dental medicine and was appointed at the University of Zürich. In 2011 he became his PhD doctorate degree of the University of Amsterdam, ACTA dental school, The Netherlands. In 2013 he worked as Visiting Associate Professor at the Department of Restorative Dentistry and Biomaterials Sciences at Harvard School of Dental Medicine in Boston, USA. In 2015 he has been promoted to full Professorship for Implantology at the University of Zurich. He is an accomplished and internationally renowned lecturer and researcher, best known for his work in the field of hard and soft tissue management and his research on new technologies in implant dentistry.



BJÖRN KLINGE (Sweden)

Björn Klinge is Dean at the Faculty of Odontology and Professor in Periodontology, Malmö University and Professor in Periodontology at the Department of Dental Medicine, Division of Periodontology and Implant Dentistry, Karolinska Institutet, Stockholm, Sweden. He is also Director of the National Research School in Clinical Dental Medicine at Karolinska Institutet. He obtained his D.D.S. and his Ph.D./Odont. Dr from Lund University, Faculty of Dentistry in Malmö, Sweden. He has been a Licensed Dental Surgeon since 1977 and a Licensed Specialist in Periodontology since 1988. Professor Klinge worked first as general dentist in public and private office. He was then lecturer in Periodontology at Loma Linda University, California, USA and Assoc Chief Dental Officer in Oral & Maxillofacial Surgery at the County Hospital of Halmstad, Sweden. He held the position of Associate Dean for Undergraduate Curriculum at the Center for Oral Health Sciences, Lund University and headed the Department of Lab Animal Resources/Experimental Surgery and was an associate Professor in Periodontology department in Malmö, before being appointed Professor by the Swedish Government at Karolinska Institutet. Björn Klinge is Honorary Fellow, Singapore Dental Hospital and Honorary Professor, Ji-Lin University, China. He is President of the Swedish Periodontal Society, board member Scandinavian Society of Periodontology and President of the European Association for Osseointegration (EAO).



PERNILLA LARSSON GRAN (Sweden)

Graduated 1996 as D.D.S from Karolinska Institute, Stockholm, and 2003 as Specialist in Prosthodontics at Institute for Postgraduate Education in Jönköping, Sweden. After combining clinical work as a prosthodontist and research she gained her PhD in Odontology from University of Malmö in 2010. Her research is focused on the dimensions of oral health and quality of life. Pernilla is senior consultant at Centre of Oral Rehabilitation in Östergötland, Sweden and affiliated to Malmö University, Sweden and Scandinavian Center for Orofacial Neurosciences.



URBAN LENDAHL (Sweden)

Professor of Genetics, Karolinska Institute, Stockholm, Sweden



DEHUA LI (China)

He was graduated from the Fourth Military Medical University in 1991 and received his PhD degree in Oral Maxillofacial Surgery in 1996. From 2000 to 2001, he worked as a scholar in Department of Oral Surgery, University of Berne. His expertise includes bone augmentation, implant esthetics, computer assisted implant surgery, etc. The main research interests are dental implant surface modifications, bone filling materials and immediate loading. He is the author of over 100 publications in national and international scientific journals and has given dozens of invited lectures on international conferences or overseas implant courses.



YE LIN (*China*)

He graduated in 1983 from Xi'an Medical University and got the maxillofacial surgery training in West China University of Medical Sciences. From 1990 until 1995 he worked in the Department of Oral Maxillofacial surgery Cologne, Germany. Since 1995 he has been professor and chairman of Department of Oral Implantology in Peking University. He was president of China Society of Oral Implantology (2005-2012) and did pioneer work of oral implantology in China. He has authored multiple published papers on implant dentistry.



CHRISTINA LINDH (*Sweden*)

Professor and senior consultant in Oral and Maxillofacial Radiology, head of the department of Oral and Maxillofacial Radiology at Malmö University, Sweden. Main research area has been on assessment of jaw bone tissue from a diagnostic perspective related to osteoporosis risk assessment as well as in implant treatment. More recent research focusing on evaluation of diagnostic methods and on health-economic aspects of diagnostic methods used in dentistry. Around 75 scientific publications in peer-reviewed international and national journals.



TOMAS LINKEVICIUS (*Lithuania*)

Tomas Linkevicius has received his DDS in 2000. Later he got involved in postgraduate studies in prosthodontics and in 2009 defended his PhD thesis in Riga on the subject of soft tissue thickness. He is the author and co-author of over 20 publications in peer-reviewed international dental journals and books. He lectures internationally on topics of soft peri-implant tissues and prosthetic treatment of dental implants.



GEORG MAILATH-POKORNY (*Austria*)

1979 MD degree, Medical School, University of Vienna - Speciality board examination in dentistry (DDS)
 1987 Graduation Special Dentistry and Oral and Maxillofacial Surgery
 1991 PhD degree oral and maxillofacial medicine, in particular oral surgery.
 1992 Deputy Head of the Department of oral Surgery at the Dental School of the Medical University of Vienna (Head Univ. Prof. DDr. Georg Watzek).
 2003 President of the Austrian society for oral surgery and implantology.
 2004 Opening of the "Academy of oral Implantology" in Vienna
 2005 Representing Prof. Watzek as head of the postgraduate training for oral Implantology at the medical university of Vienna
 2006 - 2009 Board member of the EAO
 2010 Award of the Ministry of Science for University Professor
 2011 Managing Partner of the Academy of oral Implantology



HENNY MEIJER (*Netherlands*)

Henny Meijer became a dentist in 1988 after graduating at the Dental School in Groningen, the Netherlands. He finished his thesis "A biomechanical study on bone around dental implants in an edentulous mandible" at the University of Utrecht in 1992. From 1992-2006 he was working as a prosthodontist at the University Medical Center Groningen. Since 2006 he is professor in Implant Prosthodontics. Henny Meijer is full-time working in implant dentistry regarding treatment of patients, research and education. From 1999 to 2009 he was member of the board of the Dutch Society of Oral Implantology and since 2010 he is honorary member of this society. Since 2012 he is member of the Certification Committee of the European Association for Osseointegration. He lectures internationally, with emphasis on prosthetics, on topics as dental implant restorations in the aesthetic region, short implants in the posterior region and overdenture therapy in maxilla and mandible.



JOERG MEYLE (*Germany*)

12/1980 Graduation as Dentist University of Tuebingen, Germany 1981 - 1984 Postgraduate Training in Oral Surgery and Periodontology 06/1984 Doctorate as Dr. med. dent. (D.M.D.), Specialist in Oral Surgery and Periodontics (D.D.S.) 1983 – 198 children's Hospital, Dept. Hematology Advanced Training 06/1992 Habilitation (= Ph.D.) Since 1994 University of Giessen Appointed Professor and Director, Department of Periodontology More than 170 papers in peer-reviewed journals. 2001 Sigurd-Ramfjord Visiting Professor, University of Ann Arbor, (USA) 2003 Honorary Membership German Society of Periodontology 2015 Honorary Professor University of Hong Kong Member of many scientific organizations, board member of the EFP, since 2013 treasurer



ANDREA MOMBELLI (*Switzerland*)

Andrea Mombelli is Professor and Chair, Division of Periodontology, and director of the post-graduate program in periodontology at the University of Geneva School of Dental Medicine, Switzerland. He graduated from the University of Bern School of Dental Medicine and completed his post-graduate studies reaching the status of Private Docent in 1992. He has a Swiss Federal diploma in dentistry (D.D.S.), a Doctorate in dentistry (Dr. med. dent.) and is a Swiss board certified periodontist.



JOSE MANUEL NAVARRO (*Spain*)

Dr. José Manuel Navarro received a Certificate in Periodontology and Implant dentistry after completing a 3 year program at New York University College of Dentistry (Chairman Dennis Tarnow). He was also awarded a Master of Science degree in Biomaterials from NYUCD (Chairman Van Thompson) for his research on high strength ceramics. Dr. Navarro has received awards for his research from different societies, including the Academy of Osseointegration best presentation award in 2007 and the European Academy of Esthetic Dentistry Research Award in 2011. He has co-authored several peer-reviewed publications and book chapters and is Co-Editor of the book "High Strength Ceramics" Quintessence 2014. Presently, he is the chairman of the EAO Junior Committee, and practices periodontics, prosthodontics and implant dentistry in Las Palmas, Madrid and London.



FRIEDERICH NEUKAM (*Germany*)

Professor Friedrich Neukam received a DMD degree from Mainz University in 1976 and the MD degree in 1984 and PhD in 1994 from Hannover University. He trained in Oral and Maxillofacial Surgery and was a Senior Staff member at Hannover University Medical School. Since 1995 he has served as Chairman and Head at the Department of Oral and Cranio-Maxillofacial Surgery at Erlangen-Nuremberg University Dental School. He served as President of the Germany Society of Implantology, General Secretary and President of the European Association of Osseointegration and has been Editor-in-Chief of the Journal Oral and Maxillofacial Surgery since 2008. He has lectured nationally and internationally and is the author of numerous publications. In June 2010 Athens Medical University awarded him an honorary doctorate. Prof. Neukam has been Vice-Dean for Finances at the Medical Faculty of Erlangen-Nuremberg University. His clinical work focuses on the treatment of cleft lip and palate, orthognatic surgery, tumour surgery, implant dentistry and bone grafting in combination with implants.



DAVID NISAND (*France*)

Dr. David Nisand received a DDS degree and a post graduate education in advanced Periodontology and oral Implantology at the University of Paris 7. He is a guest lecturer in the department of Periodontology, University Paris 7. He is the Scientific President of the French Society of Periodontology and Oral Implantology, and a member of the Communication Committee of the European Association for Osseointegration. His primary scientific interests include the field of periodontal reconstructive surgery, and periodontal and implant therapy. He is in a private practice limited to periodontal therapy and oral implantology in Paris.



NELSON PINTO *(Chile)*

Professor Graduate School of Periodontics and Implant Dentistry , University of the Andes, Chile Visiting Professor Department of Oral Health Sciences / Periodontology , University Hospitals, Catholic University Leuven, Belgium. Chairman of Research Center for Regenerative Medicine and Tissue Engineering, Concepcion, Chile Leading expert on clinical applications of L-PRF in soft & hard tissue regeneration and wound healing. Active Private Practice in advance Oral Implant Dentistry since 1989. Developer of the Protocols for the Management of Chronic Wounds with L-PRF. Best Oral Research ; 4th Congress of the World Union of Wound Healing Societies Yokohama , Japan , 2012



BJARNI PJETURSSON *(Iceland)*

Prof. Pjetursson, received his DDS from University of Iceland. He got his specialist certificate in periodontology (EFP & SSP), Masters of Advanced Studies in Periodontology and Dr. med. dent from the Faculty of Medicine, University of Bern in 2003 and finished his postgraduate training in Prosthodontics at the University of Berne in 2005. He got his PhD from University of Iceland. From 2005-2008 he was Assistant Professor at the Department of Periodontology and Fixed Prosthodontics, University of Berne. Presently he is a Professor and Chairman of the Department of Reconstructive Dentistry and Dean, Faculty of Odontology, University of Iceland.



MARC QUIRYNEN *(Belgium)*

Professor M. Quirynen graduated in 1980 as dentist and in 1984 as periodontologist (Catholic University Leuven). Since 1990 he is full-professor at the Faculty of Medicine of the Catholic University. His research deals mainly with oral microbiology, oral malodour, simplification & optimization of periodontal therapy including implant surgery, halitosis, L-PRF. He published over 300 full papers in international peer-reviewed journals. He is associate editor of the Journal of Clinical Periodontology.



GERRY RAGHOEBAR *(Netherlands)*

Gerry M. Raghoobar received his D.D.S. degree and M.D. degree at the University of Groningen. In 1988 he qualified as oral and maxillofacial surgeon and became a staff member in the University Medical Center Groningen. He defended his Ph.D. thesis in 1991 at the University of Groningen. He is professor in Oral and Maxillofacial Implants. He is a fellow of the European Board of Oral and Maxillofacial Surgery. Current research efforts are focused on single tooth replacement, edentulous maxilla, bone and soft tissue augmentation techniques, reconstruction of bone defects, and craniofacial implants. He has (co)authored numerous scientific publications and books.



DIANNE REKOW *(United Kingdom)*

Dr. Dianne Rekow's combined education in engineering and dentistry set the stage for an unique and rewarding career in industry and academic dentistry. Currently the Executive Dean of King's College London Dental Institute, she has published and lectured extensively reporting research results of multi-disciplinary teams she has led, including her early work in CAD/CAM systems.



FRANCK RENOUEARD *(France)*

Franck Renouard is graduated of the Dental University of Paris V in 1982. He was assistant of Jean-François Tulasne in the Cranio-Maxillo-Facial Team of Paul Tessier from 1983 to 1988 in Paris. He has published several articles and book chapters. He is author of 2 Text Books with Bo Rangert. The first one " Risk Factors in Implant Dentistry" was published in 10 languages. His new book, co-written with a professional pilot, Jean Gabriel Charrier, is about Human Factors and medical errors. Dr. Renouard is EAO Past President (2006-2008). He is member of Osteology Foundation board. He is in Private Practice in Paris limited of Oral and Implant Surgery. He is visiting Professor at the Medicine Faculty of Lieges, Belgium.



STEFAN RENVERT (*Sweden*)

Stefan Renvert holds a position as Professor of Oral Health Sciences Kristianstad University, Sweden and a position as honorary professor at Dublin Dental Hospital, Ireland and at the Blekinge Institute of Technology, Karlskrona, Sweden. Professor Renvert holds the position as General Secretary of the EFP and was Scientific Chairman for Europerio 5 in Madrid 2005 and Chairman of the Europerio 6 in Stockholm 2009. Professor Renvert has published over 200 papers. Professor Renvert's research focuses on treatment of peri-implantitis, oral malodor, periodontal health and disease in the elderly population and risk the association of periodontal disease to general diseases.



ISABELLA ROCHIETTA (*United Kingdom*)

Isabella Rocchietta, DDS, Specialist in Periodontics Graduate in dentistry at the University of Milan, Italy in 2002. Awarded one year scholarship from the department of Medicine, University of Milan. Research Fellow, Department Periodontology, Harvard School of Dental Medicine, Boston, MA. Fellow and instructor at the department of Periodontology, University of Milan, Italy. Research consultant for the Institute for Dental Research and Education (IDRE) until 2011. Chairman of the EAO Junior Committee (European Academy for Osseointegration) from 2007 to 2011. Member of the Experts Council of the Osteology Foundation and member of the communication committee of the EAO. Currently performs clinical work limited to periodontics and implant dentistry in London, U.K. Affiliated with Department of Biomaterials, Institute for Clinical Sciences, The Sahlgrenska, Academy at the University of Gothenburg, Sweden. Author of several national and international peer reviewed publications and book chapters. International speaker on; bone regeneration by means of growth factors and scaffolds, tissue engineering, soft and hard tissue neo-formation with autogenous living cells, osseointegration and implant surface modifications.



IRENA SAILER (*Switzerland*)

Irena Sailer received her dental education and Dr.med.dent. degree from the University of Tübingen, Germany in 1997. She received a postgraduate training at the Clinic of Fixed and Removable Prosthodontics in Zurich/Switzerland, where she was later Associate Professor. In 2007 she was a Visiting Researcher at New York University, USA. Since 2009 she holds an Adjunct Associate Professorship at the University of Pennsylvania, USA. She is a Specialist for Prosthodontics (SSRD), and holds a Swiss specialization degree for Dental Implantology (WBA, SSO). Since September 2013 she is Head of the Division of Fixed Prosthodontics and Biomaterials at the University of Geneva.



MARIANO SANZ (*Spain*)

Chairman of Periodontology and Director of the EFP accredited Master Course in Periodontology. Chairman of the Workshop Committee of the EFP and Honorary Doctor by the Universities of Göteborg in Sweden and San Sebastian in Chile



MARTIN SCHIMMEL (*Switzerland*)

Martin Schimmel is professor and head of the Division of Gerodontology at the School of Dental Medicine of the University of Bern (Switzerland). He graduated from the University of Mainz in Germany (undergraduate, Dr med dent) and the University of Geneva in Switzerland (Privat-Docent, MAS Oral Biol, board certified specialist of reconstructive dentistry SSO/SSRD). His professional career comprises wide clinical experience in private practice and geriatric hospitals. The main academic interests are gerodontology, geriatric implantology, removable prosthodontics and oral physiology.



HENNING SCHLIEPHAKE (*Germany*)

Prof. Henning Schliephake received his training in OMF Surgery / Facial Plastic Surgery in Hannover, where he also did his PhD degree. He became full professor and chair of the Dept. of OMF Surgery at the Georg August University in Göttingen in 2001. He has chaired several scientific organisations and is Editorial board member of a number of national and international journals. His research foci are reconstructive microsurgery, tissue engineering and QoL in Head and Neck Oncology.



SØREN SCHOU (*Denmark*)

Dr Søren Schou is Professor at the Department of Oral and Maxillofacial Surgery, School of Dentistry, University of Copenhagen, Denmark. In addition, he has recently established a specialist clinic with focus on oral surgery, implantology, and radiology in Aarhus, Denmark. DDS in 1988, PhD in 1993, board certification in oral and maxillofacial surgery in 1999, and DrOdont in 2004. From 1988 to 1989 military dental service and from 1989 to 2002 PhD student, Assistant Professor and finally Associate Professor at the School of Dentistry, University of Copenhagen and University Hospital, Rigshospitalet, Denmark. From 2002 to 2007 full-time consultant at Aalborg Hospital, Aarhus University Hospital and from 2007 to 2015 Professor and Chairman at the Department of Oral and Maxillofacial Surgery and Oral Pathology, School of Dentistry, University of Aarhus, Denmark. Has published in national and international scientific journals with focus on oral and maxillofacial surgery and oral implantology. He has been Secretary General and President of the EAO and Associate Editor of the European Journal of Oral Implantology. His current research interests are oral implantology, including implant treatment of individuals with congenitally missing teeth and periodontitis-associated tooth loss, as well as bone biology, bone regeneration, and surgical endodontics.



ALBERTO SICILIA (*Spain*)

Doctor in Medicine, and specialist on Stomatology, University of Oviedo, Spain. Postgraduate training on Periodontology, University Complutense of Madrid, Spain. Diploma in Statistics applied to Biomedical Research, University Autònoma de Barcelona, Spain. Professor of Periodontology and Director of the Master of Periodontology, University of Oviedo, Spain. Private practice limited to implant surgery since 1988, Clinica Sicilia, Oviedo Spain. Board Director of the EAO



BERND STADLINGER (*Switzerland*)

Bernd Stadlinger received his MD at the University of Vienna, Austria and his DMD at the Technische-Universität Dresden, Germany. He is senior physician and lecturer (Privatdozent) at the Clinic of Cranio-Maxillo-Facial and Oral Surgery at the University of Zurich, where he is in charge of the Dept. of Dento-Maxillofacial Radiology. His research interest is the interaction between biomaterials and bone and the design of digital, computeranimated scientific films. For his research, he won various prizes, including the basic research award of the EAO, the Grant for Implantology of the EAOMFS and the European Masterclass award for the film "Cell-to-cell-communication, Osseointegration".



ANDREAS STAVROPOULOS (*Sweden*)

Andreas Stavropoulos (AS) after having studied dentistry in Heidelberg, Germany, and Thessaloniki and Athens, Greece, he worked a few years in private practice limited to periodontics and implant dentistry. AS joined then the dept. of Periodontology, Aarhus University, Denmark, for postgraduate training, where he also received his Ph.D. in 2002 and his dr.odont. degree in 2011, based on preclinical and clinical studies on regenerative periodontal therapy and in association with dental implants. In 2013, AS joined Malmö University as the Professor and Chair in the dept. of Periodontology. AS has received several awards for his research, including the 1st Basic Research Prize of the European Association of Osseointegration (2011) and the Straumann Award in Regenerative Periodontal Medicine, conferred by the IADR (2013). He has authored several publications in international peer-reviewed journals and book chapters, and he is member of several Editorial Boards, including that of Journal of Clinical Periodontology, Clinical Oral Implants Research. AS is currently the President of the Periodontal Research Group of IADR.



ALI TAHMASEB (*Netherlands*)

Ali Tahmaseb began his dental education at the University of Ghent in 1988. Since then he has followed various training programs in oral surgery and implant dentistry throughout Europe and the USA. In 2011 he completed his PhD at the University of Amsterdam, ACTA and stayed on to become an associate professor in the department of oral implantology and prosthetic dentistry. He is also responsible for research and education in that department. His main research areas are guided surgery, CAD/CAM and guided bone regeneration around endosseous implants. He is co-founder of a novel concept in guided surgery and a primary investigator in this field at the University of Amsterdam.



ANDY TEMMERMAN *(Belgium)*

Drs. Andy Temmerman graduated cum laude as a dentist in 2007 (UGent) and EFP certified periodontologist in 2010 (KULeuven). From 2011, he is a doctoral researcher & clinical consultant at the Department of Periodontology KULeuven. He is mainly involved in research topics concerning L-PRF, sinus augmentation procedures, short implants, implant placement in limited bony volumes and osteoporosis. In 2015, he won the Dentsply Implant Research Award. He published papers in international journals. Furthermore he is a frequent lecturer at national and international implant related congresses. He works part-time in a private clinic focussing on periodontology and implant dentistry.



DANIEL THOMA *(Switzerland)*

Daniel Thoma is an Associate Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zurich. He graduated in 2000 at the University of Basel and was trained in implant dentistry and prosthodontics at the Clinic for Fixed and Removable Prosthodontics and Dental Material Sciences, University of Zurich. Dr. Thoma was the recipient of an ITI scholarship and spent 1 year at the Department of Periodontics, University of Texas, Health Science Center, San Antonio, USA. Between 2008 and 2012, he was a full-time Assistant Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich, Switzerland. In 2013, he got his *venia legendi* (Privatdozent) at the University of Zurich and since then serves as an Associate Professor at the Clinic for Fixed and Removable Prosthodontics and Dental Material Science at the University of Zurich, Switzerland.



MATS TRULSSON *(Sweden)*

Mats Trulsson is professor and head, Department of Dental Medicine, Karolinska Institutet, Sweden. He received his basic training in dentistry (DDS, 1986) and neurophysiology (PhD, 1993) at Umea University, Sweden, and completed postdoctoral training (1995) at the Dental Research Centre in Chapel Hill, UNC, USA. In 2000 he moved to Karolinska Institutet and was appointed head of the Department of Dental Medicine in 2012. Professor Trulsson is currently involved in both clinical and laboratory research and is particularly renowned for his work in characterizing the sensorimotor regulation of mastication and how prosthetic treatments affect oral motor function.



PASCAL VALENTINI *(France)*

DDS University of Paris 1982 Program Director European Post Graduate of Oral Implantology University of Corsica (Corte ,France)/University of Liege (Belgium) Associate Professor of Implant Dentistry University of Loma Linda (California) President of the European Association for Osseointegration (2012-2014) Recipient of the Robert James Award for Education in Implant Dentistry 2010 University of Loma Linda (USA)



NELE VAN ASSCHE *(Belgium)*

Dr Nele Van Assche is an EFP certified periodontologist. She treats patients referred for periodontitis and implants at her private practice. She joined the EAO in 2011 having attended the congresses since 2002. Dr Van Assche is also a member of the EAO Junior Committee.



ERIC VAN DOOREN *(Belgium)*

Dr. Eric Van Dooren attended the Katholieke Universiteit Leuven, Belgium, where he received his degree in dentistry in 1982. After graduating he opened a private practice in Antwerp, Belgium, which is limited to periodontics, fixed prosthodontics, and implants. Currently Dr. Van Dooren is a Visiting Professor at University of Liege (Belgium) and University of Marseille . He is an active member of the European Academy of Esthetic Dentistry. Dr Van Dooren lectures nationally and internationally , mainly on aesthetics,implants and aesthetic periodontal surgery.



PER VULT VON STEYERN (*Sweden*)

Per Vult von Steyern is professor in Prosthetic dentistry and head of the Department of Materials Science and Technology at the Faculty of Odontology, Malmö University, Sweden. His is a licensed specialist in prosthetic dentistry with Dental ceramics as his main research focus. He has published several scientific papers and text book chapters and is a well recognized international lecturer.



ANN WENNERBERG (*Sweden*)

Ann Wennerberg became a dentist in 1979, PhD in 1996, a license degree in Prosthodontics in 1997 and became Professor in Prosthodontics 2002 at the Sahlgrenska Academy, Gothenburg University. Since 2008, she is the head of the Department of Prosthodontics, Faculty of Odontology, Malmö University, Sweden. Her main research is aimed at optimize implant surfaces. At present, her research group includes 13 PhD and one senior researcher. She has so far been the main supervisor for 9 PhD thesis. Wennerberg has written above 220 scientific papers published in international peer reviewed journals and presented more than 120 invited lectures internationally. She has received several national and international awards for her research about implant surface topography.



DANIEL WISMEIJER (*Switzerland*)

Graduated in 1985. He received his PhD in 1996 on the subject of overdentures on dental implants; "The Breda Implant Overdenture Study. Since 2006 Professor and head of the department of Oral Implantology and Prosthetic Dentistry at ACTA Amsterdam which he combines with his referral practice. He is the head of the section of Oral Implantology and Prosthetic Dentistry . The research areas in his section are focused on "CAD/CAM treatment optimization", "Digital Dentistry, treatment evaluation and workflow" ," implant surface and bone substitute optimization" "peri-implantitis", 3D printing as well as " the evaluation of different implant based treatment modalities".



ANJA ZEMBIĆ (*Netherlands*)

Dentist specialist of Reconstructive. Dentistry SSO / SSRD, Zurich, Switzerland



YANMIN ZHOU (*China*)

Professor Zhou is from Department of stomatology Jilin University China .Mainly research is about modification on titanium surface,Osseointegration of dental implant and application of PRF.etc.He is the fellow of International Dental Collage.



OTTO ZUHR (*Germany*)

Dr. Otto Zuhr studied dentistry at the University of Aachen from 1986 to 1992. In 1992 he received his DMD from the Department of Oral and Maxillofacial Surgery in Aachen. Several educational programs led him to Switzerland, Scandinavia and USA during the following years. From 1999 to 2008 he worked together with Drs. Bolz, Wachtel, and Hürzeler in the Institute of Periodontology and Implantology (IPI) in Munich. In 2001 he received his Specialist in Periodontology of the German Society of Periodontology (DGP). Since 2008 he is in professional partnership with Marc Hürzeler. Presently he's holding an assistant professorship position in the department of periodontology at the University of Frankfurt (Director: Prof. Peter Eickholz). Otto Zuhr has written several articles in the field of periodontology and is lecturing nationally and internationally. From 2007 to 2014 he was board member of the German Society of Periodontology (DGPARO). His book "Plastic Esthetic Periodontal and Implant Surgery" was published by Quintessence in 2012.

ORAL COMMUNICATION SPEAKERS



SEMAAN ABI NAJM
(145) OSTEOTOME SINUS FLOOR ELEVATION WITHOUT GRAFTING: A 10 YEAR CLINICAL AND RADIOLOGICAL SINUS ASSESSMENT



LEONARDO AMORFINI
(119) FLAPLESS POST-EXTRACTIVE IMPLANTS WITH OR WITHOUT SOFT TISSUE AUGMENTATION IN AESTHETIC AREA: A 5-YEARS RANDOMIZED CLINICAL TRIAL.
(123) A NEW MINI-FLAP DESIGN APPROACH FOR IMPLANTS INSERTION THROUGH FLAPLESS GUIDED-SURGERY TEMPLATE: 1-YEAR SPLIT-MOUTH PROSPECTIVE STUDY



VALENTINA BORGIA
(125) CLINICAL EVALUATION OF TWO DIFFERENT XENOGRAFTS USED FOR SOCKET PRESERVATION TECHNIQUE COMPARED TO NON-GRAFTED SOCKETS: A MULTICENTER RANDOMIZED CLINICAL TRIAL.



ELENA CALCIOLARI
(103) HISTOLOGY ANALYSIS AND PROTEOMICS EXPRESSION IN EARLY AND LATE PERIODS OF BONE REGENERATION IN HEALTHY AND OSTEOPOROTIC-LIKE CONDITIONS



DANIELE CARDAROPOLI
(147) SURGICAL REGENERATIVE THERAPY OF PERI-IMPLANTITIS DEFECTS ON FOUR DIFFERENT IMPLANT SURFACES: A 1-YEAR FOLLOW-UP PROSPECTIVE STUDY
(149) LONG TERM FOLLOW-UP OF OSSEOINTEGRATED IMPLANTS PLACED IN PERIODONTAL AND NOT PERIODONTAL PATIENTS. A LONGITUDINAL CLINICAL STUDY.
(116) DELAYED IMPLANT PLACEMENT FOLLOWING RIDGE PRESERVATION OR SPONTANEOUS HEALING IN POST-EXTRACTION SITES: A RANDOMIZED CONTROLLED CLINICAL TRIAL



F. PETER CARLS
(148) INCIDENCE OF PERI-IMPLANT MUCOSITIS AND PERI-IMPLANTITIS IN PRIVATE OFFICE



YELIZ CAVUSOGLU
(107) OSSEOINTEGRATION OF ZIRCONIA IN THE PRESENCE OF MULTINUCLEATED GIANT CELLS



ALESSANDRO CUCCHI
(126) EVALUATION OF EARLY AND LATE COMPLICATIONS AFTER GUIDED BONE REGENERATION WITH PTFE MEMBRANES VERSUS TITANIUM MESHES. A RANDOMIZED CLINICAL TRIAL



LAURENS DEN HARTOG
(139) IMMEDIATE LOADING OF SINGLE-TOOTH IMPLANTS IN THE AESTHETIC ZONE: 5-YEAR RESULTS OF A RANDOMIZED CLINICAL TRIAL



MELISSA DIERENS
(141) COST ANALYSIS RELATED TO AFTERCARE OF MANDIBULAR OVERDENTURE TREATMENT ON NON-SPLINTED IMPLANTS IN FULLY EDENTULOUS PATIENTS



MARC EL HAGE
(152) OSTEOTOME SINUS FLOOR ELEVATION WITHOUT GRAFTING: A 10-YEAR CONE-BEAM CT EVALUATION



GIACOMO FABBRI
(129) CLINICAL EVALUATION OF CONNECTION TYPE AND RESTORATION VERTICAL HEIGHT OF ZIRCONIA ABUTMENTS: A RETROSPECTIVE STUDY ON 965 ABUTMENTS WITH 10-YEAR FOLLOW-UP



PIETRO FELICE
(117) SHORT IMPLANTS VERSUS LONGER IMPLANTS IN VERTICALLY AUGMENTED POSTERIOR MANDIBLES: A RANDOMISED CONTROLLED TRIAL WITH 5-YEAR AFTER LOADING FOLLOW-UP



SILVIA GALLI

(105) OSSEointegration KINETICS OF TIZR ALLOY IMPLANTS: A HISTOLOGICAL, BIOMECHANICAL, AND GENE EXPRESSION EVALUATION IN VIVO



BERTA GARCIA

(130) INFLUENCE OF PLASMA CLEANING PROCEDURE ON THE INTERACTION BETWEEN SOFT TISSUE AND ABUTMENTS. A RC HISTOLOGIC STUDY



GIULIA GHIACCI

(108) STANZOLOL'S EFFICACY ON BONE REGENERATION IN RAT CALVARIAL CRITICAL-SIZE DEFECTS



ULAS GORMEZ

(102) EFFECTS OF BOVINE LACTOFERRIN IN SURGICALLY CREATED BONE DEFECTS ON BONE REGENERATION AROUND IMPLANTS



HADAR HALLSTRÖM

(155) PROBIOTIC SUPPLEMENTS AS AN ADJUNCT TO DEBRIDEMENT FOR THE TREATMENT OF PERI-IMPLANT MUCOSITIS - A RANDOMIZED CONTROLLED TRIAL



PÄR JOHANSSON

(112) INCREASED BONE FUSION ON PEEK IMPLANTS COATED WITH CRYSTALLINE HYDROXYAPATITE: A HISTOMORPHOMETRIC STUDY IN RABBIT BONE



STEFANIE KAPPEL

(137) RESIDUAL CEMENT ON STANDARD OR INDIVIDUALIZED ALL-CERAMIC ABUTMENTS WITH CEMENTED ZIRCONIA SINGLE CROWNS—A PROSPECTIVE RANDOMIZED PILOT TRIAL



UDATTA KHER

(115) CLINICAL AND RADIOGRAPHIC EVALUATION OF ONE-STAGE LATERAL-VERSUS TRANSALVEOLAR SINUS FLOOR ELEVATION IN SEVERELY RESORBED SITES USING CALCIUM PHOSPHOSILICATE PUTTY



CHI LEI

(114) APPLICATION OF XENOGRAPHS FOR RIDGE PRESERVATION IN POSTERIOR SITES: A RANDOMIZED CONTROLLED CLINICAL TRIAL



WALTER LUECKERATH

(136) THE EFFECT OF THE PRIMARY STABILIZATION OF GRAFT MATERIAL IN A RIDGE PRESERVATION TECHNIQUE BY MEANS OF THE SIMULTANEOUSLY INSERTED FIXED PROSTHESIS



SIMONE LUMETTI

(154) IMPLANT SUPPORTED RESTORATION FOLLOWING HORIZONTAL RIDGE RECONSTRUCTION BY MEANS OF AUTOGENOUS OR HOMOLOGOUS BONE BLOCK GRAFTS: 5 - YEARS CLINICAL RESULTS OF A RCT



MARIA MARTINEZ-IBAÑEZ

(146) EFFECTS OF FUNCTIONALIZED SILOXANE-GELATIN HYBRID COATINGS ON THE PROTEIN ADSORPTION AND OSTEOGENIC DIFFERENTIATION OF HMSC



LUIZ MEIRELLES

(100) BIOMECHANICAL ANALYSIS AND OSTEOGENIC GENE EXPRESSION ON POROUS TANTALUM IMPLANTS PLACED IN A GAP HEALING MODEL



ILJA MIHATOVIC

(113) BIODEGRADATION PATTERN AND TISSUE INTEGRATION OF TWO DIFFERENT NATIVE PERICARDIUM MEMBRANES. AN IN-VITRO AND IN-VIVO STUDY.



RABAH NEDIR

(138) 5-YEAR STUDY OF SHORT IMPLANTS PLACED IN THE ATROPHIC POSTERIOR MAXILLA: CROWN-TO-IMPLANT RATIO



VINCENT OFFERMANN'S

(109) COMPARING SLACTIVE™, OSSEOSPEED™ AND A NOVEL STRONTIUM RELEASING SURFACE (TI-SR-O) IN EARLY OSSEointegration STAGES IN A RABBIT FEMUR MODEL



OMAR OMAR

(110) REVISITING THE MECHANISMS OF GUIDED BONE REGENERATION (GBR): THE ROLE OF THE MEMBRANE COMPARTMENT IN VIVO



GERARDO PELLEGRINO

(124) UNRELIABLE SURVIVAL AND SUCCESS RATE OF IMPLANT PLACED IN FIBULA FREE-FLAP: A LONG-TERM RETROSPECTIVE STUDY


ROBERTO PESSOA

(151) COMPARATIVE EVALUATION OF RELEVANT ASPECTS OF IMPLANT DESIGN ON PERIIMPLANT BONE LOSS - PROSPECTIVE RANDOMIZED-CONTROLLED SPLIT-MOUTH CLINICAL TRIAL


SALOMAO ROCHA

(131) PLATFORM SWITCHING VERSUS PLATFORM MATCHING: THREE-YEAR RESULTS FROM A PROSPECTIVE RANDOMIZED-CONTROLLED MULTICENTER STUDY


VYGANDAS RUTKUNAS

(134) CLINICAL EVALUATION OF MULTI-UNIT IMPLANT RESTORATIONS ACCURACY FABRICATED FROM CONVENTIONAL AND DIGITAL IMPRESSIONS


JOSE CARLOS SANCHÍS

(153) THE INFLUENCE OF SOFT TISSUE THICKNESS ON CRESTAL BONE CHANGES AROUND IMPLANTS: A HISTOMORPHOMETRIC AND IMMUNOHISTOCHEMICAL PROSPECTIVE CONTROLLED CLINICAL TRIAL


NIKOLA SAULACIC

(101) PERIOSTEAL DISTRACTION: HISTOLOGICAL AND MICRO-CT ANALYSIS


DANILO RENATO SCHNEIDER

(132) THE INFLUENCE OF CORTICAL BONE PROPORTION ON MARGINAL BONE LOSS OF SINGLE SHORT IMPLANTS (6MM) PLACED IN THE POSTERIOR REGION: 3-YEAR RESULTS.


KIRSTEN SLAGTER

(120) IMMEDIATE SINGLE IMPLANT TREATMENT: 1 YEAR RESULTS OF A RANDOMIZED CONTROLLED TRIAL IN THE AESTHETIC ZONE


VANESSA SOUSA

(104) PERI-IMPLANTITIS MICROBIOME VARIABILITY ACROSS DIFFERENT DISINFECTION PROTOCOLS, IMPLANT SURFACES AND THEIR RELATIONSHIP WITH BIOCOMPATIBILITY DYNAMICS


BENEDIKT SPIES

(143) ALUMINA REINFORCED ZIRCONIA IMPLANTS USED FOR SINGLE CROWN AND BRIDGE RECONSTRUCTIONS: 3-YEAR RESULTS FROM A PROSPECTIVE COHORT INVESTIGATION


ANDREAS STAVROPOULOS

(150) EVALUATION OF HYALURONIC ACID INJECTION FOR MINIMALLY INVASIVE VOLUME AUGMENTATION OF INTERPROXIMAL PAPILLAE AT SINGLE IMPLANTS. PRELIMINARY RESULTS FROM A RCT.


ANDRES STRICKER

(127) RIDGE SPLITTING WITH OR WITHOUT REFLECTION OF THE PERIOSTEUM OR WITH SIMULTANEOUS GBR: AN EXPERIMENTAL STUDY IN MINIATURE PIGS.


CEYLIN SEDEF TASTEPE

(111) CLEANING EFFICIENCY OF OSTEOCONDUCTIVE POWDER ABRASIVE TREATMENT ON EXPLANTED HUMAN IMPLANTS AND IN VITRO BIOFILM COATED TITANIUM DISCS


GERDIEN TELLEMAN

(144) FIVE YEAR RESULTS OF A RCT COMPARING THE OUTCOME OF PLATFORM-SWITCHING TO NON-PLATFORM-SWITCHING OF 8.5 MM IMPLANTS IN THE POSTERIOR REGION.


ANDY TEMMERMAN

(121) A PROSPECTIVE, NON-RANDOMIZED, CONTROLLED, MULTICENTRE STUDY TO EVALUATE THE OUTCOME OF ORAL IMPLANTS IN WOMEN OVER 60 YEARS OF AGE WITH OSTEOPOROSIS: 1-YEAR RESULTS


PAUL VAN EEKEREN

(142) CRESTAL BONE CHANGES IN SIMILAR MACRO GEOMETRICAL IMPLANTS WITH THE IMPLANT-ABUTMENT CONNECTION AT THE CRESTAL BONE LEVEL OR 2,5 MM ABOVE

(135) THE EFFECT OF IMPLANT PLACEMENT IN PATIENTS WITH EITHER KENNEDY CLASS II AND III ON THE ORAL HEALTH RELATED QUALITY OF LIFE USING THE ORAL HEALTH IMPACT PROFILE 14 NL


STEFAN VANDEWEGHE

(133) DIGITAL IMPRESSIONS OF DENTAL IMPLANTS: ACCURACY OF 2 INTRA-ORAL SCANNERS


MELLE VROOM

(128) INDICATORS FOR LOSS OF ATTACHMENT AROUND IMPLANTS: A 12-YEAR LONGITUDINAL STUDY.


GRZEGORZ WASILUK

(140) THE INFLUENCE OF CAD/CAM ABUTMENT DESIGN ON THE PRESENCE OF UNDETECTED CEMENT REMNANTS: A PROSPECTIVE CLINICAL STUDY.



MARCO TALLARICO
 (106) DENTAL IMPLANTS AND ORAL
 BISPHOSPHONATES 3-YEAR RESULTS OF A
 MULTICENTER PROSPECTIVE OBSERVATIONAL
 STUDY



MARCO ZELTNER
 (122) RCT EVALUATING EFFECTIVENESS AND
 SAFETY OF A STABILIZED 3D COLLAGEN
 MATRIX COMPARED TO AUTOGENOUS
 CONNECTIVE TISSUE GRAFTS FOR SOFT
 TISSUE VOLUME AUGMENTATION AT IMPLANT
 SITES



ELISE ZUIDERVELD
 (118) EVALUATION OF THE AESTHETICS OF
 MAXILLARY SINGLE IMPLANTS PLACED
 WITH OR WITHOUT A SOFT TISSUE GRAFT:
 PRELIMINARY RESULTS

SYMPOSIA & HANDS-ON FACULTY



SATELLITE INDUSTRY SYMPOSIA FACULTY

- Ueli GRUNDER (Switzerland)
- Mauricio ARAÚJO (Brazil)
- Daniel BUSER (Switzerland)
- Marcus DAGNELID (Sweden)
- Peter MOY (USA)
- Elad GINAT (Israel)
- Eric VAN DOOREN (Belgium)
- Lyndon COOPER (USA)
- Marco DEGIDI (Italy)
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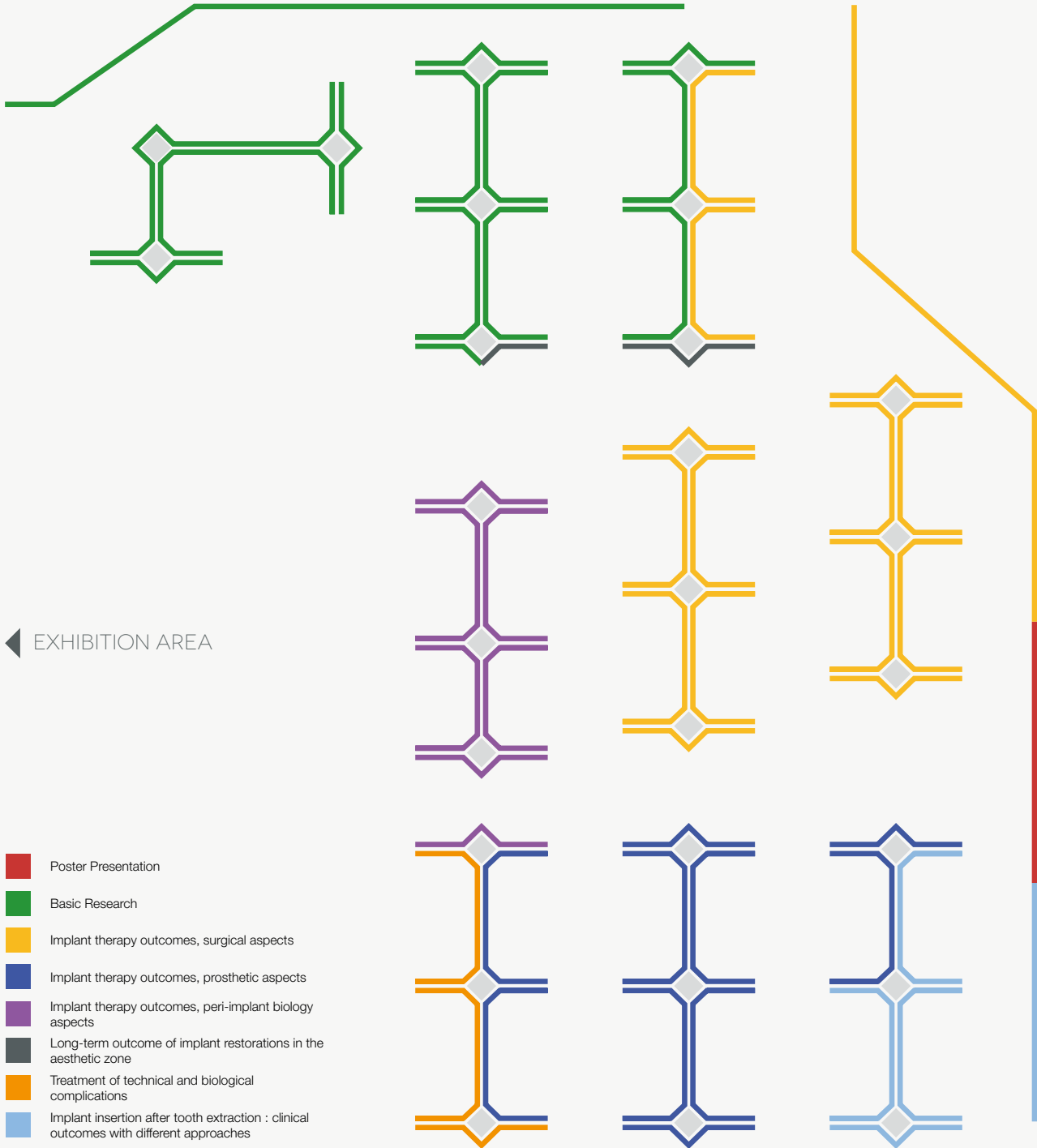
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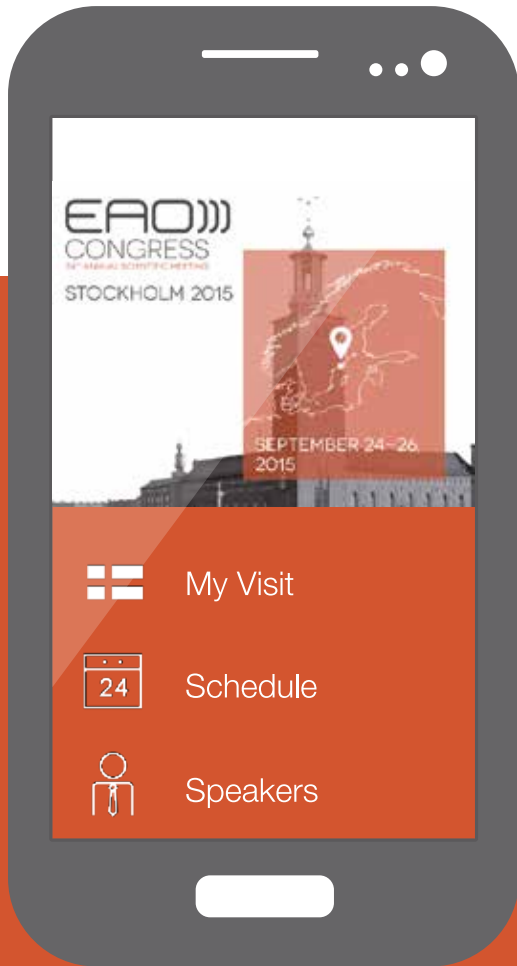
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September 24th 08.00 - 20.00

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Don't hesitate to visit our booth to get a free access to internet and to print a last-minute document! Booth located next to the information desk.

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Articles found should be taken to the registration desk.

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Registered participants who are unable to attend the congress cannot nominate a substitute participant. Name changes are not permitted.

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The official language of the EAO Congress is **English**. **Translation into Mandarin Chinese** will be available in the Victoria Hall during the whole congress.

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Invited country (China)	600 €
Non-members	800 €

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THE CONFERENCE REGISTRATION FEE INCLUDES:

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- Congress documents (final programme, abstract book, congress bag)
- Lunches and refreshments during coffee breaks
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To register as an EAO member, please log into the member area at www.eao.org and click on the 'Congress registration' button. If you have any questions, please contact us at info@eao.org. Please note that only members of EAO, having paid their 2015 membership fees, and members of local supporting societies, can benefit from the reduced member registration fee. If you are not listed on these associations' membership lists, the organisers reserve the right to register you as a non-member and charge the corresponding registration fee. Non-members who wish join the EAO may go to the EAO website to submit a membership application before registering.

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The journey to the city center takes 20 min, for those who wish to continue to the StockholmsMässan, the total journey time will be 45 min.

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Cost of a ticket to the city center: 280 SEK (as of August 2015).

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Take advantage of a City Pass for all public transportation within the city, from Downtown to StockholmsMässan, where the congress will be held.

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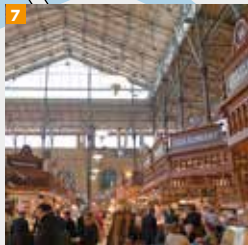
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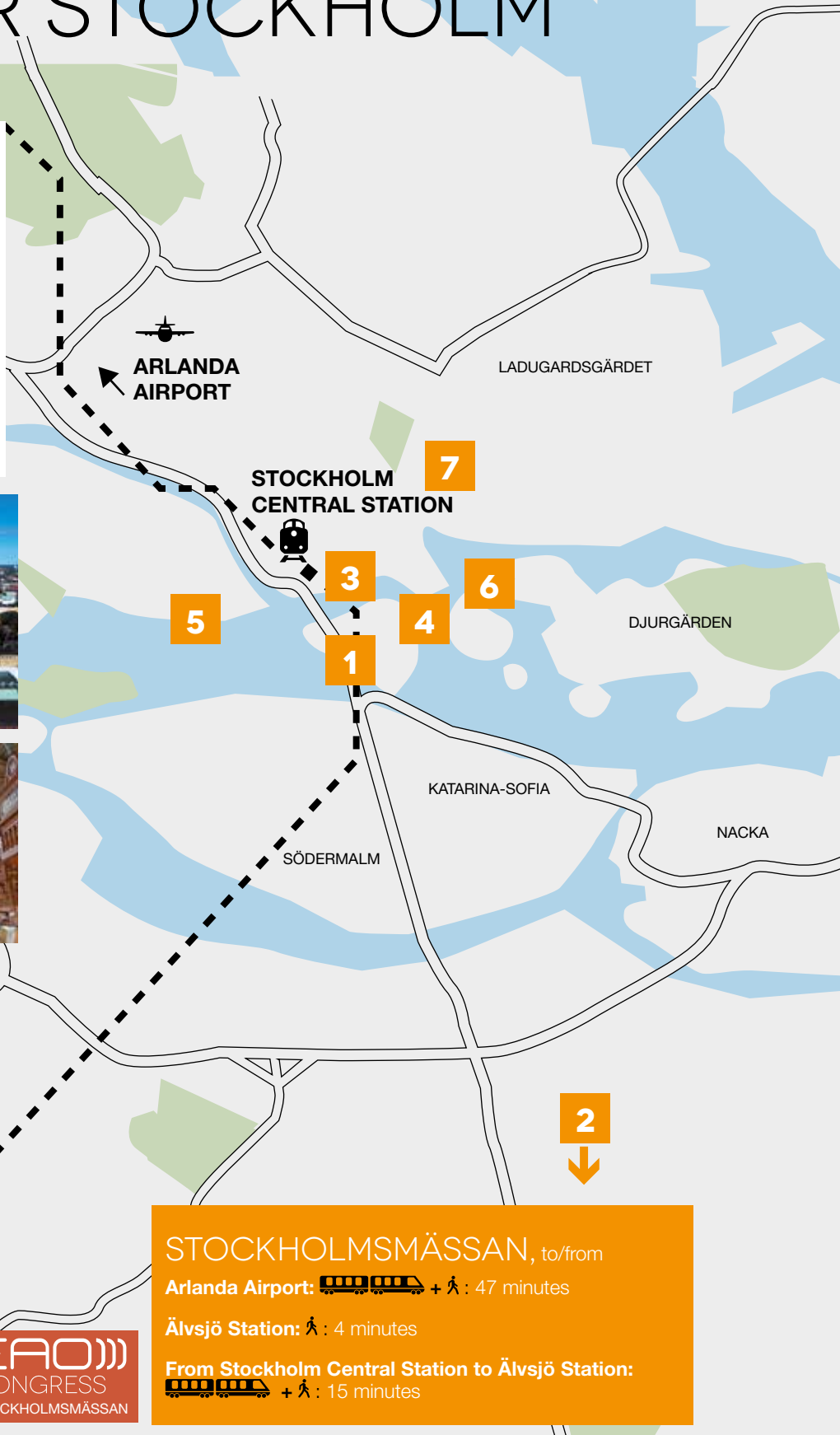


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- 2** The Magical Skogskyrkogården, Woodland Cemetery
- 3** Old Town
- 4** The National Museum
- 5** The City Hall
- 6** The Vasa Museum
- 7** Ostermalmshallen



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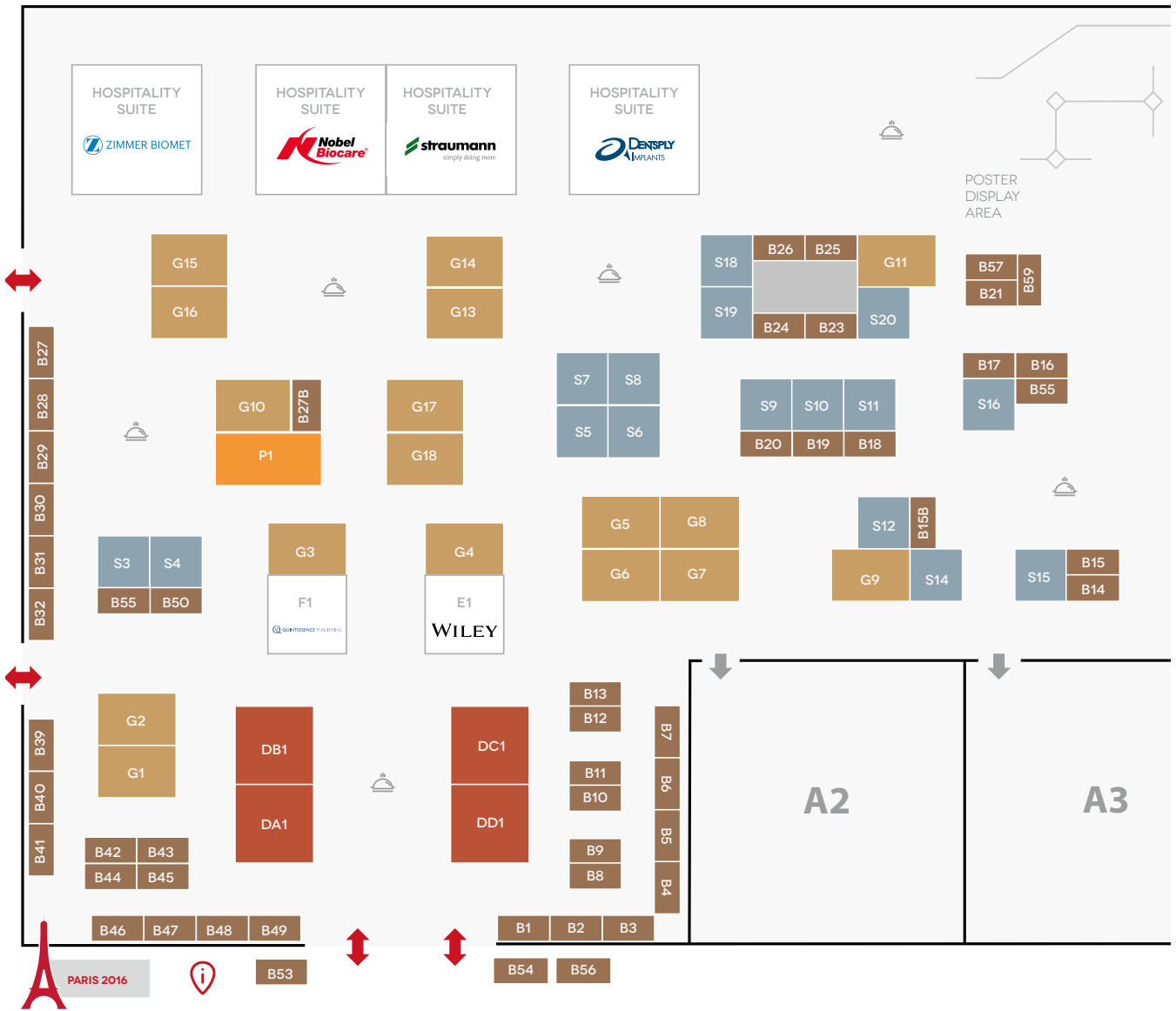
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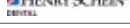





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NOBEL BIOCARE

Nobel Biocare is a world leader in the field of innovative implant-based dental restorations – from single tooth to fully edentulous indications. Nobel Biocare offers dental implant systems, high-precision individualized prosthetics and CAD/CAM systems, diagnostics, treatment planning, guided surgery solutions and biomaterials. Nobel Biocare is headquartered in Zurich, Switzerland. Nobel Biocare is committed to improving the quality of life of every patient by providing innovative solutions with a focus on customer and patient needs. The company's mission, "Designing for Life", reflects its resolution to provide superior products and solutions that result in fully functional, natural-looking restorations that aspire to last a lifetime.



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STRAUMANN

Straumann, established in Switzerland in 1954, is a pioneer and global leader in implant dentistry. In collaboration with leading clinics, research institutes and universities, Straumann researches, develops and manufactures dental implants, instruments, prosthetics and tissue regeneration products for use in tooth replacement and restoration solutions or to prevent tooth loss. In education and research, Straumann works closely with the International Team for Implantology (ITI).



(DB1)

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Zimmer Dental and BIOMET 3i are joining forces to establish Zimmer Biomet – a global leader in oral healthcare solutions. Zimmer Biomet is committed to helping clinicians achieve exceptional outcomes for their patients by continuing to provide state-of-the-art solutions, along with exceptional customer service and technical support. Zimmer Biomet offers a comprehensive product portfolio, world-class educational opportunities, and responsive, personalized service.



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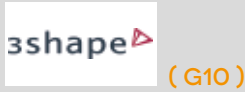
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Geistlich Biomaterials is specialised in regenerative biomaterials for more than 30 years. With its products Geistlich Bio-Oss® and Geistlich Bio-Gide®, the company pioneered regenerative dentistry and is today the market leader worldwide. The innovative new products Geistlich Mucograft® and Geistlich Mucograft® Seal have strengthened the company's reputation as a scientifically-oriented provider of solutions, addressing the needs of both patients and clinicians.

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ADIN DENTAL IMPLANTS SYSTEM

ADIN Dental Implant Systems Ltd., designs, manufactures and markets state of the art, technologically advanced dental implants solutions. For over 20 years, ADIN has provided dentists and dental technicians with innovative solutions and advanced knowledge into the field of implants dentistry. ADIN highly values each hard working employee and attributes its growing success to their continuous dedication. ADIN prides itself on providing excellent customer service, constant customer communication and availability to provide continuous excellent implantology solutions, from the simplest restorative case to the most complex surgical case.



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ANTHOGYR

ANTHOGYR produced its first contra-angle in 1947. Since then, the French company based near Chamonix at the bottom of the Mont-Blanc, has been proving that an independent firm can compete with the biggest players on the market. As the first dental implant provider to develop a comprehensive solution, ANTHOGYR designs manufactures a complete range of implants, instruments and services distributed in more than 100 countries worldwide. Innovation, industrial expertise and individual commitment constitute the DNA of the company. By acquiring SIMEDA in 2012, ANTHOGYR is already involved in the third industrial revolution: the customized and digital prosthesis.



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BEGO

BEGO Implant Systems, established in 1990 under the name BEGO Semados®, specialises in the development and marketing of Semados® implant systems, the accompanying implant prosthetics and BEGO Biomaterial System. The company's key objective is to apply the BEGO system concept to cutting-edge implant technology, and thus supply the market with highly efficient systems that can be conveniently used for all indications. Today, dental implants "Made by BEGO" epitomise top German technology at a fair price, delivering a perfect combination of safety, durability, aesthetics and reliability.



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BICON

THE BICON DESIGN is driven by simplicity. One of the cornerstones of that simplicity is the innovation of SHORT® Implants. When the Bicon system was first introduced in 1985, its 8.0mm length implants were considered quite short—most other implants were at least 12-14mm and sometimes 18-20mm long! Since then, the natural progression of Bicon's design philosophy has resulted in 5.0mm and 6.0mm SHORT® Implants, all with proven clinical success. Visit www.bicon.com for more information.



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www.bti-biotechnologyinstitute.com

BTI

BTI Biotechnology Institute is one of the leading companies in oral implantology and rehabilitation with presence in over 25 countries. A key part of its activity is the design, manufacture and distribution of dental implants, prosthetic components and surgical material with an intense R&D+I activity that makes BTI the supplier of the most versatile dental implant system worldwide offering the widest range of solutions tailored to each need. Besides, it is a pioneer in the application of regenerative medicine in this field, using plasma rich in growth factors (Endoret®- PRGF®), to stimulate and accelerate healing and tissue regeneration



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CAMLOG

CAMLOG is a leading supplier of integrated systems and products for implant dentistry and restorative dentistry. With our products leading the way in terms of ease of use, application and quality, our services are fully customized to meet the needs of our clients and business partners. Many years' experience in research and development, highest quality standards, a fair price-performance ratio and the know-how of globally recognized experts in implant dentistry set CAMLOG apart.



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<http://www.cortex-dental.com>

CORTEX

CORTEX Dental Implants Industries Ltd. is a developer and provider of affordable dental implants, prosthetic products and surgical kits. The company was founded in 2008 by a group of elite professional maxillofacial surgeons in the implantology discipline and leading businessmen with a clear goal of designing and producing top-notch implants, that meet the highest standards of quality and innovation.



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DENTIUM

Since its establishment in Korea in June 2000, Dentium has been manufacturing high quality dental implant products, Innovative bone graft materials and wide range of products of digital dentistry. In collaboration with leading clinicians, research institutes and universities Dentium R&D center has developed a series of state-of-the-art dental and bone graft materials focused on efficiency. Dentium's goal is to support dentist with a high standard of quality and service for the future benefit of dentist and patient.

HENRY SCHEIN

Henry Schein, Inc. (NASDAQ: HSC) is the world's largest provider of health care products and services to office-based dental, medical and animal health practitioners. The Company also serves dental laboratories, government and institutional health care clinics, and other alternate care sites. Henry Schein employs over 15,000 Team Schein Members and serves approximately 775,000 customers. Headquartered in Melville, N.Y., the Company has operations or affiliates in 26 countries. In Europe, Henry Schein employs more than 4,000 Team Schein Members and has affiliates e.g. in Austria, Belgium, Czech Republic, France, Germany, Ireland, Luxembourg, Portugal, Italy, Spain, The Netherlands, and the United Kingdom.

IMPLANT DIRECT

Implant Direct Europe AG (ID) has become the "simply smarter" choice by innovating high-quality implant solutions. This combination has resulted in a remarkably broad product line that includes implant systems, prosthetic components and tissue regeneration materials. ID offers implant systems compatible to Nobel Biocare™, Straumann® and Zimmer®Dental. ID sets new standards for high-quality implants and value added All-in-One™ Packaging, including the corresponding prosthetic components. Implant Direct's versatile 2-stage, 1-stage and 1-piece implants provide maximum ease and value. Decide today to choose the path of simply smarter solutions.

MIS IMPLANT

Established in 1995, MIS Implants Technologies Ltd. is a global leader in the development and production of advanced products and innovative solutions aimed to simplify implant dentistry. Through our state-of-the-art production facilities, MIS offers a comprehensive range of high quality dental implants, superstructures, tools and kits, plus innovative solutions for oral restoration and health. Distributed in over 65 countries worldwide, MIS provides unparalleled service to our customers. Standing behind MIS Implants are world-class scientists and engineers, devoted to the continued research and development of new progressive products and technologies perfectly matched to the needs of dental implant professionals worldwide.

NOEDENT

#4 company worldwide for dental implants and prosthetic abutments, Neodent is known for its continuous investments leading technological advances, scientific excellence and innovation in implantology, offering excellence and distinguished quality out of a large range of products.

OSSTEM

As one of the leading implant company worldwide, OSSTEM is spearheading the trend of growth and evolution, providing clinical operation methods and clinical technical intelligence through AIC workshops, regional research societies, as well as various conferences, to meet customers' high standard and dentists' academic fervor. Based on the decades of cases with new concepts of operative methods applied, in addition to the release of such new technology and products (TS system, CAS-Kit, LAS-Kit, ESSET Kit, SmartBuilder titanium mesh membrane, AutoBone Collector and etc), OSSTEM is committed to supporting our customers' success.

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For over 60 years the International Quintessence Publishing Group has served the developmental and educational needs of dental professionals, dedicated to making available to the entire dental team a global resource of cutting-edge research, experience, expertise and knowledge. Quintessence is renowned for its high quality publications and takes pride in maintaining its high standards to impart specialist knowledge in the dental field. We produce dental books, multimedia and journals. These can be ordered via our website, email or telephone.

SOUTHERN IMPLANTS

At Southern Implants, expertise in research, development and manufacturing of dental implants allow us to provide innovative solutions for everyday implant challenges. We offer a broad range of implants and restorative components that work seamlessly with existing systems while offering unique, innovative features that simplify the most complex challenges.



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THOMMEN

Thommen Medical develops, manufactures and sells high-quality products for dental implantology, mainly the Thommen Implant System and biomaterials. Swiss precision, innovation, and functional design form the basis for all of the company's products. Thommen Medical's headquarters and private manufacturing facility is located in Grenchen, Switzerland. Thommen Medical has subsidiaries in Switzerland, Germany, Austria, United States and Canada, and is represented by distribution partners in most other major markets of Europe, Asia and the Middle East. It is currently a privately held company, with two private investor groups and Novartis being the majority stockholders

TRINON TITANIUM

Trinon Titanium is a manufacturer of high quality implants for dental implantology, maxillo-facial surgery, traumatology and orthopedics. In the product range there are also modular distractor for alveolar ridge Q-MultiTractor, titanium meshes, Bone Pins System, micro- and mini plaques for osteosynthesis. Dental implant systems Q-Implant and GIP-Implant offer a big variety of platforms and diameters, as well as excellent primary stability. In cooperation with Trinon Collegium Practicum Trinon Titanium organizes since 2003 practical implantology courses for novices and advanced surgeons, who wish to improve their skills.

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BRANEMARK INTEGRATION AB

Brånemark Integration AB was founded in 2001 by Professor Per-Ingvar Brånemark and Dr Rickard Brånemark on the principle that the original concept of osseointegration provides the greatest long-term benefit for the implant patient.



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CLARONAV

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FOTONA

Fotona is one of the most experienced developers of high-technology laser systems, recognized for the design, manufacture, and support of advanced solid-state laser systems for medicine (aesthetics, surgery, gynecology) and dentistry. Fotona is fully committed to stringent testing of all components and in-house production of its medical and dental laser systems. This long-term dedication to perfection ensures that the company's laser systems are of the highest quality, reliability and durability. When you choose Fotona, you choose a company committed to designing, manufacturing and delivering: The highest performance, best made laser systems in the world!



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IBS IMPLANT

IBS implant and its Dual Surgical System provides the dental practitioner with refined instrumentation and a surgical protocol that enhances virtually every aspect of the implant procedure. It is the first and only system that is designed to preserve bone as its first priority. It allows to address each bone quality type in a particular way. MagicKit, a set of innovative surgical equipment, was introduced for dentists to easily apply this new-concept implant surgery system to actual clinical settings. IBS provides the world's most innovative and simplest bone expansion, sinus lifting and Onetime drilling technique.

KEYSTONE DENTAL

Keystone Dental develops, acquires and commercializes oral healthcare technologies that ultimately improve a patient's treatment and quality of life. Keystone Dental's product portfolio includes implant systems, biomaterials for tissue and bone regeneration and an implant planning software and guided surgery.

For more information about the company's broad portfolio of products, solutions and services, please contact Keystone Dental or visit: www.keystonedental.com

MECTRON

Mectron has been active and successful in the dental field since 1979, developing and producing top-quality devices. The company has always stood out on the market for its continuous process of development and innovation and the excellent design of its products. The mectron range now consists of the following: PIEZOSURGERY®. The original dedicated piezoelectric surgical devices for many oral surgery indications; Piezoelectric scalars. ; LED curing lamps.

OSTEOBIOL

Tecnoss Dental s.r.l. is a marketing and export company, managing the international sales and marketing activities for the OsteoBiol® product line in the dental market worldwide. The first goals of Tecnos® Dental is to develop and improve the clinical evidence of OsteoBiol® biomaterials by cooperating with several public and private research centers in various countries and to stimulate and sponsor educational activities in the field of bone and tissue regeneration.

Tecnoss® Dental cooperates with specialized distributors based in over 60 nations to provide the best service to professionals who appreciate OsteoBiol® biomaterials as the most reliable choice for clinical success.

SHINHUNG

Shinhung has been the most respected and the largest dental company in Korea for the past 60 years. Shinhung started to manufacture its own implant system, SIS, 8 years ago, with a vision to make an implant system that is the most predictable, affordable, and at the same time, safe and easy to use.

SIC IMPLANT

SIC invent & Schilli Implantology Circle The concept for the success of the SIC invent group is based on our company slogan "Implants from Implantologists". More than ten years ago at the same time the SIC invent group and the SIC - Schilli Implantology Circle - have been founded. The SIC under the scientific direction of Prof Dr W. Schilli is an internationally organised network of opinion leaders and users of the systems, jointly responsible for a high-performance SIC invent product portfolio and its reliable application on patients. Visit us to learn more about SICvantage® max, "The Conical Connection".

SUNSTAR

SUNSTAR GUIDOR Sunstar is a pioneer in championing the idea that the state of one's oral health has a deep connection to the health of the whole body. Sunstar is investing in its philosophy to help people everywhere achieve better oral health and quality of life through its GUM, BUTLER and GUIDOR brands. GUIDOR products are used by oral care professionals to TEST, TREAT and CORRECT diseased, aesthetically compromised, or surgically challenged oral tissues. The GUIDOR portfolio* includes innovative materials for hard and soft tissue regeneration, locally applied antibiotics and microbiological test kits. * Region dependent

SWEDEN & MARTINA

Undisputed leader in Italy, Sweden & Martina is committed to very strong international growth, comprises three subsidiaries (in Spain, Germany and the USA) and is very well positioned in over 30 countries in the implantology sector. Thanks to scientific research, flexibility and speedy intervention, Sweden & Martina evaluates and promotes innovative clinical concepts and technological solutions able to upgrade and simplify the daily lives of dentists. An all-round view that includes in vitro, in vivo and clinical research is the secret behind a sound and secure base.



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TEPE

TePe – 50 years of interdental cleaning TePe is a privately owned Swedish company manufacturing and marketing high quality oral hygiene products since 1965. Continuous collaboration with dental experts has made TePe a leading brand in preventive dental care. All design, development and production takes place at the headquarters in Malmö, Sweden. TePe has 250 employees, turnover of MSEK 500 and subsidiaries in Germany, Italy, the Netherlands and the United Kingdom. The wide TePe range of interdental brushes, toothbrushes and dental sticks is recommended by dental professionals and used by consumers in 60 countries worldwide.

TRI DENTAL IMPLANTS

TRI Dental Implants is a SWISS-based manufacturer of innovative esthetic solutions in the field of implant dentistry. With its unique TRI Performance Concept, TRI provides esthetic solutions for implant treatments, combining the latest knowledge in hard and soft tissue management. TRI's products are 100% MADE IN SWITZERLAND, structured in a very LEAN INTELLIGENT portfolio and are yet provided COST-EFFECTIVE for broad patient applications. Check out our latest innovation and visit us at our booth: THINK PINK!

USHIO

USHIO is the manufacturer providing the UV dental implant conditioning device. Our product, TheraBeam SuperOsseo has incorporated the new procedure «Photofunctionalization» to resolve the Titanium and Titanium Alloy Aging issue to enhance the implant performance. Celebrating 50 years of business, with 5,700 employees, annual revenue of 1.5 billion and more than 50 group companies all over the world, USHIO Group is one of the world's leading providers of lighting-edge technologies.

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American Dental Systems GmbH - ADSystems -based in the German town of Vaterstetten (near Munich) has since 1997 been a successful provider of innovative and high quality dental products to dentists, dental clinics and laboratories. During this short period the company has become one of the leading speciality depots in the German-speaking area.

ASEPTICO

Aseptico is the only US brand of motors designed for implant, oral surgery, restorative, and rotary endo applications in a single platform. Unique features include upgradable software and handpiece calibration for superior torque accuracy and return on investment. There are several models to choose from with maximum adjustable torque of 50 or 80 Ncm for implant placement. The company also manufactures a full range of portable field dental equipment for humanitarian, nursing home, and public health projects. Dealer/OEM inquiries welcome. Aseptico products are CE and ISO-compliant. For more information, visit www.Aseptico.com or stop by our booth at the EAO Congress.



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A world leader at your service for over 50 years. Producing the best dental instruments to simplify the work of practitioners and constantly improve patient comfort. This has been Bien-Air's mission since its creation in 1959. Ergonomics, precision and reliability are at the core of the development of every new product. Paying careful attention to professionals every day, Bien-Air has made numerous innovations, always setting the bar higher. A true culture of excellence sitting perfectly with the tradition of Swiss Made products from the renowned Watch Valley.

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Bioland provides Membranes used in medicine and dentistry, as well as other Medical/Dental products for 20 years. Bioland has placed emphasis on the development of product technology and the application of their own medical collagen in the dental and medical industry. By doing so, they are pursuing to provide a better life for mankind. It has about 30% of the Korean market share in this industry. We are certain that if you are looking for high quality Membranes, this is the one to choose and it will not be a waste of your time to visit our booth.

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Biomatlante specializes in synthetic biomaterials for bone regeneration and is a world leader in bone graft technologies, selling its products in over 50 countries. Biomatlante's products are routinely used in orthopedics and trauma surgery, in spine and dental surgery. All of the product line is made of MBCP™ Technology, a unique HA/TCP 3D interconnected scaffold, with over 30 years of background and more than 650 scientific and clinical literatures. MBCP+™: Osteogenic Micro/Macroporous Synthetic Bone Graft – HA/TCP In'Oss™: Moldable Biphasic Putty EZ Cure™ Membrane: Flexible Resorbable Collagen Membrane - Guided Bone Regeneration EZ Cure™ Plug: Mineralized Collagen Matrix

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For more than a decade, Biotec-BTK has been providing professionals in Implantology certified and high-quality medical devices. Superior reliability, customized services and enviable quality/price ratio guarantee our partners' needs absolute satisfaction. Our extremely wide range of medical devices, certified through EC-mark according to Directive 93/42/EEC - Annex II (our directive 2007/47/ EC) is created through daily collaboration with professionals who work in implantology.

BOTISS DENTAL GMBH

Botiss biomaterials is an innovative, clinically oriented Biotech company with headquarter in Berlin and developing and production sites in Germany, Austria and Great Britain. We are 100% focused on dental regeneration. We offer you a unique systematic BTR approach, the complete regenerative biomaterial portfolio for Implantology, Oral Surgery, CMF and Periodontology out of one hand. The botiss regeneration system includes all long-term proven biologic materials (bovine, synthetic, allografts, collagen, granules, blocks, membranes, soft tissue matrix), matched to each other for specific indications.

BRES MEDICAL

BresMedical is an Australian medical company partnering with European oral and maxillofacial surgeons. Its ability to provide medical software and hardware solutions has been the key to its development and launch of an innovative system in oral implantology and image-guided surgery. BresMedical's research team designed the IMPLANAV from its conception to full development aiming at creating an alternative system to dental drill guides for Computer Assisted Surgery. The company is also providing patient-specific surgical solutions for knee and ankle arthroplasty including virtual surgery planning software and biocompatible saw and cutting guides which are manufactured in-house via EOS laser sintering technology.

CENDRE & METAUX

Discover CM LOC®, the new anchor system and Pekkton® ivory, the high performance polymer on implants. Cendres+Métaux: high quality materials and precision are the basis of our products and the reason why our customer satisfaction is consistently high. That's what we stand for.



(B17)

www.collagenmatrix.com

COLLAGEN MATRIX, INC.

Its is a leader in the design and engineering of collagen- and mineral-based extracellular matrices for tissue and organ repair and regeneration.

The Company was founded in 1997 by Shu-Tung Li, Ph.D., who has nearly 40 years of experience in connective tissue research and collagen-based implant development. Dr. Li is the President and CEO of the company and in 2012 was inducted into the New Jersey Inventors Hall of Fame. This award is co-sponsored by the Stevens Institute of Technology and Greenberg Traurig, LLP. The recognition is for Dr. Li's "Patented technology related to collagen based medical implants for the repair and regeneration of soft tissue and bones."

Since its inception in 1997, the Company has received many government grants for the development of collagen-based matrix products in the areas of neurological, vascular, urological, and orthopedic tissue regeneration applications.

The Company currently manufactures collagen- and mineral-based finished medical devices in the areas of neurosurgery, oral surgery, orthopedic-spine surgery and wound care



(B20)

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DENTAL RATIO

DENTAL RATIO is specialized in dental implantology and supplies patent-free products at economical prices for maxillofacial surgeons, oral surgeons, dental practitioners and dental technicians - including a broad range of prosthetic solutions.



(B42)

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DENTIS IMPLANT

DENTIS Implant became a pioneer in the field of dentistry. We have developed 'ONEQ-SL' includes wide range of implant with SLA surface and 'LUVIS' as professional LED Lighting for Dental and Medical Surgery.

Finally, released 'ZENITH' which 3D printer lately. It is the first dental provider of a self-developed 3D printer with SLA technology for especially dental works. The 'ZENITH' from DENTIS puts the high precision and exceptionally fine feature detail of a professional 3D printer right on your desktop. 'ZENITH' can provides the ideal solution for dentists by making it possible manufacture Guide stent, wax-up Model, Stone Model and Clear aligner.

DENTIS Implant does best to meet all needs of the dental professional and bringing back the brilliant smiles of patients.



(B16)

www.elosmedtech.com

ELOS MEDTECH



(B12)

www.euroteknika.com

EURO TEKNIKA

Created in 1992, EuroTeknika is now the number one of the French manufacturers of dental implants with a fully integrated production. The brand is present in more than 30 countries worldwide. EuroTeknika offers practitioners a global solution for each stage of the implant treatment:

- EuroTeknika, IMPLANT SOLUTIONS => Eight implant systems for all clinical cases
- Teknika3D, DIGITAL & GUIDED SURGERY SOLUTIONS => Planning software, creation of guides, specific implants and instrumentation
- TeknikaLab, CAD/CAM SOLUTIONS => Computer-aided design and manufacturing of prosthetic components at our French production center.
- TeknikaTraining, TRAINING SOLUTIONS => Collaboration with universities allowing for the integration of implantology in dental training

The production site is located in France and handles all stages of the company's production, from design to final control and packaging of finished parts, as well as its research and development.



(B8)

02131-2012 135

www.meisinger.de

HAGER & MEISINGER

Hager & Meisinger is one of the world's leading developers and manufacturers of rotating high-tech instruments in the field of dental and medical technology. The range of drills; milling, finishing, grinding, and polishing tools; instruments; and special instrument systems (for endodontia, orthodontia, ENT and mouth, jaw and facial surgery, and oral implantology) comprises around 12,000 products. At company headquarters in Neuss (Germany), 45 million individual instruments are manufactured and sold every year under Meisinger brand through 600 trade partners in more than 100 countries.



(B2)

004962249065160

www.hu-friedy.eu

HU-FRIEDY

A Worldwide Focus on Quality Founded in Chicago, Illinois in 1908, Hu-Friedy creates innovative dental products that improve the work of clinicians and the quality of life for patients. We are committed to helping the best perform, through craftsmanship, dedication to customer care, and a passion for supporting the global dental community. More than 10,000 products covering all dental specialties, including microsurgery and periodontology, have established Hu-Friedy as the instrument of choice for countless leading Implantologists and Periodontists - we lead the industry in innovation and technology development. Visit us at our booth B2 or at hu-friedy.eu to learn more!



(B50)

+358 10 270 2000

www.instrumentariumdental.com

INSTRUMENTARIUM DENTAL

Instrumentarium Dental – A full-solution dental imaging company

Instrumentarium Dental develops, manufactures and markets high-tech systems and solutions for dental and maxillofacial imaging. We work in close co-operation with dental professionals, universities and other research centers in our quest to develop solutions that will meet and exceed the expectations of our customers. As the establisher of panoramic X-ray imaging, we are committed to providing high clinical performance while still maintaining simplicity, ease of use and workflow efficiency. The Instrumentarium Dental product portfolio consists of a full range of premium quality imaging solutions for intraoral, extraoral and 3D imaging.



(B54)

+46709741269

INTEGRATION DIAGNOSTICS AB

Integration Diagnostics Sweden AB (IDSAB) is a science-based Medtech company specialising in instruments for dental implant diagnostics. Our current focus is on the Penguin ISQ, an innovative new product for the measurement of implant stability in ISQ units. The ISQ unit reveals information relating to the quality of the implant-bone interface at any stage during implant treatment and follow-up. The technology serves as a valuable support to the clinician when determining healing periods, when to load and for the evaluation of problematic implants.



(B24)

+1 877 330 0338

www.intra-lock.com

INTRA-LOCK INTERNATIONAL

Intra-Lock's intelligently engineered dental implant systems incorporate a full spectrum of designs including BLOSSOM™ (3.4 to 6.5mm diameters), MILO® 3.0mm and MDL® small diameter implants. Both MILO® and MDL® Systems feature Cement-Over™ Abutments that provide the clinician with an unsurpassed range of prosthetic options. All Intra-Lock® Dental Implants are enhanced by Drive-Lock™ delivery technology for efficient placement and the bioactive surface OSSEAN® which promotes rapid early healing and increased biomechanical fixation. Intra-Lock also provides the implant clinician with a system to easily fabricate L-PRF chairside using the FDA cleared Intra-Spin™ System and a simple protocol. Every component of the Intra-Spin™ System, including the Xpressions™ Fabrication Kit, has been optimized to ensure proper biocompatibility and clinical performance for graft delivery.



(B10)

+41 61 270 83 83

www.iti.org

ITI (INTERNATIONAL TEAM FOR IMPLANTOLOGY)

ITI Foundation for the Promotion of Oral Implantology The International Team for Implantology (ITI), a leading academic organization dedicated to the promotion of evidence-based education and research in the field of implant dentistry, actively promotes networking and exchange among its currently more than 15'000 Members and Fellows worldwide. The ITI focuses on the development of well-documented treatment guidelines backed by extensive clinical testing and long-term results. The organization also funds research as well as Scholarships, Study Clubs and continuing education events, publishes reference books (ITI Treatment Guide series) and operates the ITI Online Academy e-learning platform.



(B27)

+423-235-3535

www.ivoclarvivadent.com

IVOCLAR VIVADENT

What began in Zurich in 1923 with the production of artificial teeth has evolved into a leading international dental company with a comprehensive product and system range for dentists and dental technicians. Headquartered in Schaan, Principality of Liechtenstein, Ivoclar Vivadent AG has been a privately owned company since its inception. Products are shipped from here to 120 countries worldwide. As a global player, Ivoclar Vivadent has its own subsidiaries and marketing offices in 24 countries and with more than 3200 employees throughout the world.



(B9)

www.jdentalcare.com

JDENTALCARE

JDentalCare is an Italian company leader in advanced implant dentistry. The JD implants are active implants that have a great primary stability and that can be used in every bone situation especially in soft bone and post extractive sockets. Moreover they have only one prosthetic platform allowing the clinic to have few stock in the clinic. We have all the prosthetic options both for cemented prostheses than for screw retained ones. To sum up we can offer great quality, outstanding performances at very attractive prices. Come and visit our booth to see our products and receive our amazing offers.



(B55)

www.klocknerimplantsystem.com


(B15)

+49 2643 902000-0

www.medentis.de


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www.metahosp.com


(B21)

www.micronx.co.kr


(B56)

+49 (0) 6963014457

r.klein@med.uni-frankfurt.de


(B05)

www.nbmolecules.com


(B47)

www.neoss.com

KLOCKNER IMPLANT SYSTEM

With more than 28 years of experience, KLOCKNER IMPLANT SYSTEM is a global leader and pioneer in the field of implantology. Since its establishment in the year 1987, the company has always been driven by research and innovation. KLOCKNER IMPLANT SYSTEM is present in many countries around the world thanks to an ambitious internationalization project, offering our unique portfolio of high quality products and scientific rigour.

MEDENTIS MEDICAL

Medentis medical is an internationally acting company with its main focus on dental implantology, computer-aided planning and guided surgery, aesthetic dentistry and CAD / CAM based prosthetics domiciled in Dernau, Germany. With the ICX-templant implant system, the ICX-Magellan planning software and the Denta5 CAD/ CAM system medentis is successfully operating in more than 40 countries. ICX- templant incorporates the findings of advanced implantology of the last 20 years. It combines the most important factors for a successful realization in practice. Besides its sophisticated implant design this is the awareness that implants become also increasingly interesting for patients who cannot afford any price for a reliable implant based solution.

META

Effectiveness, simplicity, hi-tech : these are META's key guidelines. From the very first outline of the project, to the definition of the complete manufacturing and commercial plan, META sees everyone in its departments fully committed in creating something that follows two fundamental criteria: the simplification and the improvement of the current clinical and surgical procedures. META's activity pursues the maximization of safety in the medical field, keeping at the centre of its activity the global needs of the Customer. The ultimate expression of META's commitment takes the shape of a series of innovative devices that actively contribute to the technologic and scientific improvement of the whole medical field.

MICRO-NX CO, LTD

MOI (MASTER OF ORAL IMPLANTOLOGY)

NBM (NANO BRIDGING MOLECULES)

NBMolecules®, a Swiss university spin-off and Frost&Sullivan award winner, has developed SurfLink®, a novel CE-marked product for enhanced implant osseointegration. SurfLink® produces a monolayer of permanently bound phosphorous rich molecules on the implant surface. SurfLink® biomimicking characteristics allow for true osseointegration, creating a clinical advantage for dental and orthopaedic implants using SurfLink®. Pre-clinical testing showed superior bone healing and greater implant integration implying enhanced clinical performance with the possibility for earlier loading, greater preservation of marginal bone levels and longer implant survival. NBMolecules® has entered into a Licence and Supply Agreement with one of the world's leading dental implant manufacturers.

NEOSS

Neoss is an innovative developer of dental implant solutions founded in 2000 by Prof. Meredith and Fredrik Engman. By forging strong relationships with a wide range of clinicians, academics and engineers from around the world, Neoss has created an implant system that redefines the word simplicity. It is built around a single platform concept which allows to work with five different implant diameters with only one set of instruments and fewer prosthetic components. Neoss head office is located in the UK and we operate in Australia, Austria, Germany, Italy, Sweden, New Zealand, Norway, United States and represented by partners in Denmark, Netherlands, Poland, Croatia, Ireland, Thailand, Turkey and Switzerland.



(B6)

+82-43-532-7458

www.nibec.co.kr

NIBEC

NIBEC has own strength in the research and development (R&D) in the field of peptide engineering, biomaterials, tissue engineering, medicine. The products categorized as (1) tissue regenerative product for dental field including implant surgery, collagen based guided tissue regenerative products(GTR membrane, etc) (2) Oral care product for teeth whitening, teeth desensitizing agent and implant cleaning agent based on polymer coating technology and (3) Anti-bacterial products against periodontitis and peri-implantitis, to eliminate the bacteria in periodontal pocket by controlled drug releasing technology. (4) NIBEC has been successful to develop and commercialize novel peptide based tissue engineering product.



(B46)

+1 386-462-7660

www.novabone.com

NOVABONE PRODUCTS

NovaBone focus on developing bone graft substitutes based on advancements in biomedical engineering that would meet the specialized needs of orthopedic and dental surgeons.

Since its inception, NovaBone has developed numerous formulations and delivery systems of its patented, bioactive technology platform that results in accelerated bone growth.

NovaBone® Dental Putty was the first bioactive synthetic bone graft offered to the dental community; and it represents the next generation Calcium-Phosphosilicate bone graft substitute engineered for enhanced handling and improved performance.

Our products are available through a network of distributors around the world. To find a distributor in your region contact us at: information@novabone.com.



(B7)

www.omniaspa.eu

OMNIA

For 25 years Omnia has been developing and producing sterile and non-sterile disposables thanks to our experience in the dental field and to the co-operation with leading surgeons. Our products are aimed at everyday use and realised to avoid infections and cross contamination. Surgical Line: a complete range of sterile surgical accessories meant for simple routine implant surgeries and more complex maxillofacial surgeries. Safety Line: a selection of non-sterile barriers and hygiene products for everyday use in dental practices. Maxil@: a new innovative and complete offer of surgical instruments specifically developed for implantology and maxillofacial surgeries



(B40)

+46 709 192 259

www.osstell.com

OSSTELL

Founded in 1999, Osstell manufactures and markets instruments that assess the stability of dental implants. Osstell IDx, the new platform from Osstell, measures implants objectively and non-invasively using the widely established ISQ standard that Osstell developed 15 years ago, now with more than 700 clinical studies validating the method. Dentists are able to more predictably manage risk patients and to meet the need for reduced implant treatment times, while still avoiding premature loading. The company is currently represented in around 60 markets.



(B48)

1-888-796-1923

www.osteogenics.com

OSTEOGENICS BIOMEDICAL

Osteogenics Biomedical is a leader in the development of innovative Guided Tissue Regeneration (GTR) products. Osteogenics Biomedical's total focus is on dental bone grafting, bone regeneration, and implant site development. Osteogenics develops, manufactures and markets the complete line of resorbable and non-resorbable Cytoplast™ Barrier Membranes, Cytoplast™ PTFE Suture, and the Pro-Fix™ Precision Fixation System.



(B27B)

www.osteology.org

OSTEOLOGY FOUNDATION

The Osteology Foundation's motto is „Linking Science with Practice in Regeneration“. The foundation was established in 2003 and its core activities include funding of research projects and organisation of national and international symposia throughout the world. In recent years, the Foundation has expanded its focus. Today, it also offers courses and a textbook specifically for researchers in the field of oral tissue regeneration.



(B28)

www.planmecca.com

PLANMECA

Planmecca Oy, the Finnish parent company of the Planmecca Group, is one of the world's largest dental equipment manufacturers distributing products in over 120 countries. A global leader in many fields of dental technology, with a product range covering digital dental units, 2D and 3D imaging devices and comprehensive CAD/CAM and software solutions. Planmecca Oy is also the largest privately held company in the field. Planmecca Group's estimated turnover for 2014 is approximately EUR 800 million with over 2,650 employees.



(B32)

+41 (0)44 700 37 77

www.regedent.com

REGEDENT

REGEDENT AG develops, markets and sells clinically proven, value added and innovative regenerative solutions to dental professionals. Thanks to the experience of many years of the members of REGEDENT AG in the regenerative field, we are able to offer customer-tailored high quality and valuable solutions to assure the best and safe usage of the products for the dental business, their patients' health and quality of life. Together with our experienced partners we are committed to develop new innovative regenerative solutions. REGEDENT AG has been founded in 2013 and the head office is located in Switzerland. REGEDENT AG operates in Austria, Germany, Netherlands and Switzerland, and is represented by partners in Italy, Norway and Spain.



(B53)

www.saeshin.com

SAESHIN

Saeshin Precision Co., Ltd. Is an expert manufacturer of a dental handpiece with the history over 37 years.

With its good reputation in the product safety and excellent quality, Saeshin Precision Co., Ltd. has the biggest domestic market share in Korea. Also Saeshin Precision has been exporting its own brand name STRONG and FORTE to about 120 countries based on its own technology in producing the micro motor with high performance.

Saeshin Precision developed the dental micro motor handpiece and Traus, X-Cube for the first in Korea and has been spreading its market worldwide by competing with those of Germany and Japan. As a leading manufacturer of the IT convergent and high precision medical devices in the dental field.



(B31)

www.saeyang.com

SAEYANG

SAEYANG MICROTECH Co., highly specializes in the research & development of micro motor handpiece with its state-of-art technologies that have been accumulated for over 40 years since its foundation in 1976.



(B25)

0149767185

www.septodont.fr

SEPTODONT

For over 80 years Septodont has been a recognized leader in the manufacturing of quality dental products. Dentists around the world have confidence that they can count on the consistent quality of our products. With a long tradition of innovation, Septodont continues to hold a leading position in the market in dental anesthetics with 500 million dental injections made with Septodont cartridges each year as well as in Restoratives, Endodontics, Infection Control and Dental Surgery.



(B22)

www.silfradent.com

SILFRADENT

Since 1975 Silfradent company specializes in the production of instruments for dental laboratories and since 2003 also produces medical instruments.

The constant support of customers, a motivated staff and an organized distribution network of dental depots helped Silfradent to become the leading company in Italy and all over the world.

On Laboratory Line, in 2014 Silfradent took over Plyno brand, an historical and international manufacturer of steam generators.

On Medical field, in 2008/2009 Silfradent carried out an important research on the activation of growth factors and on the separation of blood components (C.G.F. Concentrated Growth Factors) and new protocols on Piezo Electrical Surgery—Oral Bio Surgery.

In 2015 Silfradent started a new research project on periodontology with important European Universities.



(B26)

www.sirona.com

SIRONA

Sirona, the dental technology and innovation leader, has served dealers and dentists worldwide for more than 130 years. Sirona develops, manufactures, and markets a complete line of dental products, including CAD/CAM restoration systems (CEREC), digital intra-oral, panoramic and 3D imaging systems, dental treatment centers and handpieces. Sirona is the leader when it comes to integrated dental workflows: with merging 3D intraoral scan data with the 3D X-Ray images (CEREC meets Galileos). Visit integrated-implantology.com to learn more or go to www.sirona.com for more information about Sirona and its products.



(B11)

+358 10 270 2000

www.soredex.com

SOREDEX

Soredex designs, manufactures and markets easy to use and innovative imaging solutions for dental and maxillofacial professionals. SOREDEX™ portfolio covers wide range of applications from intraoral, panoramic, cephalometric extending to large field-of-view cone beam CT for demanding ENT and CMF diagnostics. Our products are known for reliability, simplified workflow and excellent image quality. We are committed to fulfill these promises today and in the future. Soredex is the proud developer and manufacturer of these famous brands: CRANEX™, DIGORA™, SCANORA™ and MINRAY™. Our global distributor network is thoroughly trained and ready to give the best support and service for our systems.



(B39)

www.ti-oss.com

TI-OSS

Ti-oss is the outcome of four critical manufacturing techniques.

1. Pulverization technique with multiporosity
2. Low heat deproteinizing technology
3. Surface PH adjustment technology
4. Manufacturing technology of enhancing material for faster new bone formation

(Octacalcium phosphate crystal and application technique)

100% cancellous bone graft from bovine with clinical reliability and consistency is based on the advanced manufacturing technology. Ti-oss has animal study (rat, rabbit), human study (sinus), hundreds of clinical case follow up. Rat calvarial comparison study in 8 weeks showed almost complete bone fill into the round trephined defect.



(B44)

0049/7461/965850

www.ustomed.de

USTOMED

USTOMED is a German Dental manufacturer with an international experience in the field of dental and oral and maxillofacial surgery with long family tradition.



(B49)

www.wh.com

W&H

W&H Dentalwerk – People have Priority

The family company W&H Dentalwerk, based in Bürmoos near Salzburg, Austria, the only Austrian manufacturer of dental precision instruments and devices, is one of the leading providers of dental devices in the world. Innovative product and service solutions, a modern corporate structure and a strong focus on research and development – this is what makes W&H Dentalwerk a successful local and global player. With around 1,000 employees worldwide (600 of whom work in the Austrian headquarters in Bürmoos), W&H exports its products to more than 110 countries. The company operates two production sites in Bürmoos (Austria), one in Brusaporto (Italy) and 19 subsidiaries in Europe, Asia and North America.



(B19)

www.zestanchors.com

ZEST ANCHORS

ZEST Anchors is a global leader in the manufacturing and distribution of dental solutions for the treatment of edentulous patients. ZEST received worldwide acclaim for its flagship product, LOCATOR® - a reliable restorative solution that the industry, clinician community, and patients have come to trust. ZEST continues to introduce new products and services, such as exceptionally designed narrow diameter implant systems, dental tools and materials for overdenture modification and processing, a 10 year implant warranty and unmatched technical support. ZEST is located in Escondido, California with global distribution through OEM implant companies, distributor networks, and a domestic retail sales operation.

NOTES



Book now.
Maximum 60 participants.

Master Clinician Course

Advanced course in prosthetic implant dentistry



Prof. Dr. med. dent.
Christoph Hämmerle

11-12 December 2015
University of Zurich

- featuring a variety of hands-on workshops
- focusing on modern, clinically relevant concepts

Course fees

EAO members:

990€ before 28 September
1190€ after 28 September

Non-members:

1290€ before 28 September
1490€ after 28 September

Registrations close 30 November



Come and visit the EAO stand for further information.

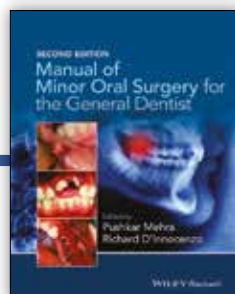
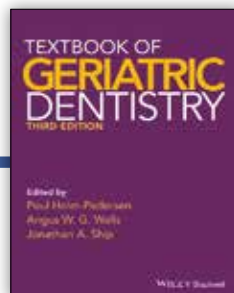
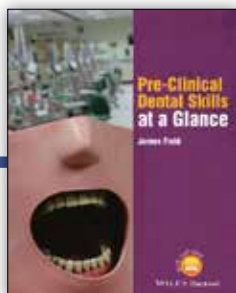
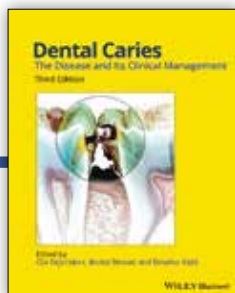
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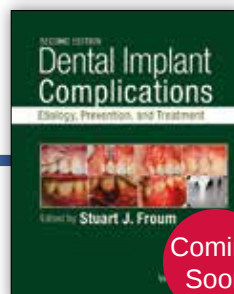
Clinical Oral Implants Research is the Official Publication of the European Association for Osseointegration



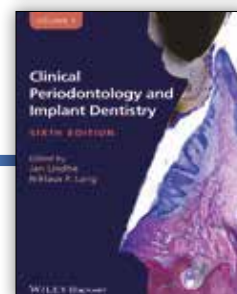
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Coming Soon



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WILEY

Book now.
Places strictly limited.

Master Clinician Course

New trends to simplify and optimise implant dentistry in complex cases with soft and hard tissue defects: **a hands-on course with cadaver dissections**



Professor Matteo Chiapasco and Professor Pascal Valentini

11-12 March, 2016

Descartes University, **Paris**



Theoretical session:

- bone harvesting techniques
- guided bone regeneration (GBR) and reconstruction with bone blocks
- management of soft tissues to obtain tension-free flap closure

Practical session – hands-on course using fresh human cadavers:

- bone harvesting techniques with scrapers
- GBR procedures with biomaterials, bone chips, and membranes
- bone block modelling and fixation techniques



The practical session is strictly limited to 20 participants. Book early to avoid disappointment.

Visit the EAO stand or go to www.eao.org for further information

EAO))) CONGRESS



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EUROPEAN
ASSOCIATION
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JAPAN

