Glasgow 2010

October 6-9, 2010
Chairman: Paul Stone, United Kingdom

19th Annual Scientific Meeting
Clinical Controversies in Implant Dentistry

In collaboration with
Dear Colleagues,

It is my great pleasure to welcome you to the 19th annual meeting of the EAO in Glasgow. The theme of ‘controversies’ is more relevant than ever in implant dentistry as we face conflicting ideas in our daily practice and there is a real need to be able to respond to this with knowledge, based on scientific evidence. The invited speaker faculty of over forty highly respected scientists and clinicians from around the world will attempt to clarify some of the most important issues and dilemmas facing us today.

With multiple parallel sessions, master classes, short oral communications, basic and clinical research and poster competitions, together with a series of pre-congress ‘step-by-step’ courses, there really is something for everyone. A large trade exhibition with all the world’s leading companies runs throughout the conference and there will be further ‘industry satellite symposia’ presented by the EAO main sponsors.

Glasgow is a vibrant, dynamic city with much to see and do amidst the impressive Victorian architecture. It is famous for music venues, theatres, museums and art galleries, not to mention whisky, restaurants and bars. And all this accompanied by world-renowned Scottish hospitality. What better place to meet up with colleagues and friends?

The 2010 EAO Scientific Committee consists of seven leading clinicians who have worked hard to bring the programme together and I am grateful to them all for their invaluable support and help.

On behalf of the EAO, I would like to extend a warm welcome to everyone who has joined us in Glasgow this year. Your experience and enthusiasm will help ensure that the EAO 2010 Congress is an unforgettable occasion.

Paul Stone
Scientific Chairman
**Pre-Congress Courses**

**LOMOND**

### STAGED LATERAL AUGMENTATION FOR IMPLANT SURGERY

Chairperson: Franck RENOUARD, France

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>15.00</td>
<td>STAGED LATERAL AUGMENTATION FOR IMPLANT SURGERY</td>
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<td>16.00</td>
<td>Coffee break</td>
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<tr>
<td>16.30</td>
<td>DISCUSSION</td>
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<td>Franck RENOUARD</td>
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</tbody>
</table>

Speakers cv p. 40

*The figures refer to the abstracts you will find in the October issue of COIR*

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**FORTH ROOM**

### SINUS GRAFTING FOR IMPLANT SURGERY

Chairperson: Robert HAAS, Austria

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<td>Robert HAAS</td>
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*The figures refer to the abstracts you will find in the October issue of COIR*
**Pre-Congress Courses**

**HALL 1**

**15.00 - 17.30**

**PROVISIONALISATION IN IMPLANT DENTISTRY**

Chairperson: Irena SAILER, Switzerland

*038*

Julia WITTNEBEN, Switzerland

16.00 - 16.30

Coffee break

**DISCUSSION**

Irena SAILER

Speakers cv p. 42

*The figures refer to the abstracts you will find in the October issue of COIR*

**HALL 2**

**15.00 - 17.30**

**COMPLEX CASE MANAGEMENT – TREATMENT STRATEGIES FOR LONG-TERM SUCCESS**

Chairperson: Stefano GRACIS, Italy

*039*

Nicola ZITZMANN, Switzerland

16.00 - 16.30

Coffee break

**DISCUSSION**

Stefano GRACIS

Speakers cv p. 43

*The figures refer to the abstracts you will find in the October issue of COIR*
Plenary Session 1

13.35 - 16.30

AESTHETICS: CLINICAL GUIDELINES
Chairpersons: Paul STONE, United Kingdom
              Daniel BUSER, Switzerland

13.35 001*  Hard tissue characteristics affecting aesthetic outcomes
          Daniele BOTTICELLI, Italy

14.05 002  Soft tissue characteristics affecting aesthetic outcomes
          Otto ZUHR, Germany

14.35 - 15.05  Coffee break

15.05 003  The optimal timing and positioning of implant placement for improved aesthetics
          Stephen CHEN, Australia

15.35 004  The influence of provisional restorations on final aesthetics
          Urs BELSER, Switzerland

16.05 - 16.30  DISCUSSION
                Paul STONE and Daniel BUSER

Speakers cv p. 44 & 45

*The figures refer to the abstracts you will find in the October issue of COIR
Parallel Session 1

13.35 - 16.30

OPTIONS FOR IMPLANT RESTORATIONS

Chairpersons: Jaime A. GIL, Spain
Rudolf FÜRHAUSER, Austria

13.35 020*
- Overdenture designs
  Frauke MÜLLER, Switzerland

14.05 021
- Fixed rehabilitation of the edentulous maxilla
  Joerg-Rudolf STRUB, Germany

14.35 - 15.05
Coffee break

15.05 022
- Fixed partial dental prostheses – cement vs screw retained
  Thomas TAYLOR, USA

15.35 023
- Metal-ceramic vs all ceramic restorations
  Stefano GRACIS, Italy

16.05 - 16.30

DISCUSSION
Jaime A. GIL and Rudolf FÜRHAUSER

Speakers cv p. 46 & 47

*The figures refer to the abstracts you will find in the October issue of COIR
> Plenary Session 2

**09.00 - 12.30**

**CAD-CAM IN IMPLANT DENTISTRY – CURRENT AND FUTURE APPLICATIONS**

Chairpersons: Christoph HÄMMERLE, Switzerland  
Andrew DAWOOD, United Kingdom

09.00 005*  
**Surgical guidance using CAD-CAM technology**  
Ronald JUNG, Switzerland

09.30 006  
**The role of the prosthodontist in optimising the aesthetic result of restorations designed with CAD-CAM techniques**  
Mauro FRADEANI, Italy

10.00 - 10.30  
**Congress ceremony**

10.30 - 11.00  
**Coffee break**

11.00 007  
**Fine tuning the precision of full arch immediate loaded dental implant treatment**  
Daniel WISMEIJER, Netherlands

11.30 008  
**The present and future for CAD-CAM technologies**  
Albert MEHL, Switzerland

12.00 - 12.30  
**DISCUSSION**  
Christoph HÄMMERLE and Andrew DAWOOD

*The figures refer to the abstracts you will find in the October issue of COIR

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**10.00 - 10.30**

> **Congress Ceremony**

Chaired by: Christoph HÄMMERLE, Switzerland
**Parallel Session 2**

### QUALITY OF LIFE FACTORS

**Chairpersons:** Mark THOMASON, United Kingdom  
Joerg-Rudolf STRUB, Germany

#### 09.00 - 12.30

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<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Presenter</th>
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<tbody>
<tr>
<td>09.00</td>
<td>Psychological and psychiatric factors influencing implant treatment</td>
<td>Tim NEWTON, United Kingdom</td>
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<tr>
<td>09.30</td>
<td>How to meet our patients’ expectations in aesthetic treatments. What are the psychological determinants?</td>
<td>Mariano SANZ, Spain</td>
</tr>
<tr>
<td>11.00</td>
<td>Speech implications of implant prosthodontics</td>
<td>Rudolf FÜRHAUSER, Austria</td>
</tr>
<tr>
<td>11.30</td>
<td>Masticatory efficiency after implant therapy</td>
<td>Merete BAKKE, Denmark</td>
</tr>
</tbody>
</table>

#### 10.00 - 10.30

- Congress ceremony

#### 10.30 - 11.00

- Coffee break

#### 11.00 - 12.30

**DISCUSSION**  
Mark THOMASON and Joerg-Rudolf STRUB

*The figures refer to the abstracts you will find in the October issue of COIR*

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**10:00 - 10:30**

> **Congress Ceremony**

**Chaired by:** Christoph HÄMMERLE, Switzerland
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>08.45</td>
<td>How to read, prepare and write a scientific paper</td>
<td>Niklaus P. LANG (China)</td>
</tr>
<tr>
<td>09.15</td>
<td>Response of crestal bone to platform switched healing abutments</td>
<td>FREY R-M.**, GALLARDO-LOPEZ L., BLUMI I. (Germany)</td>
</tr>
<tr>
<td>09.30</td>
<td>Influence of subgingivally located margins on amount of undetected cement</td>
<td>LINKEVICIUS T. **, VINDASIUTE E., PUISYS A., RUTKUNAS V. (Lithuania)</td>
</tr>
<tr>
<td>09.45</td>
<td>The effects of enamel matrix derivative on the proliferation and differentiation of human mesenchymal stem cells</td>
<td>KWON Y-D.**, JUE S-S., LEE W. Y. (Republic of Korea)</td>
</tr>
<tr>
<td>10.00</td>
<td>Congress Ceremony</td>
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<tr>
<td>10.30</td>
<td>Coffee break</td>
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<tr>
<td>11.00</td>
<td>BONITmatrix® for sinus floor augmentation – a randomised controlled histologic investigation</td>
<td>KOHAL R. ** GUBIK S., BÄCHLE M. (Germany)</td>
</tr>
<tr>
<td>11.15</td>
<td>Sinus lift with BioOss® and autogenous bone or stem cells</td>
<td>RICKERT D.**, SAUERBIER, NAGURSKY H., MENNE D., VISSINK A., RAGHOEBAR G. (Netherlands)</td>
</tr>
<tr>
<td>12.00</td>
<td>Above 15-year follow-up of single machined Brånemark implants</td>
<td>DIÉRENS M.**, STEFAN V., JENŐ K., DE BRUYN H. (Belgium)</td>
</tr>
<tr>
<td>12.15</td>
<td>Bone healing after immediate implant placement in extraction sites: a randomised prospective clinical study</td>
<td>CARDAROPOLI G.**, CARDAROPOLI D., WENNSTRÖM J. (USA)</td>
</tr>
<tr>
<td>12.30</td>
<td>Comparison of two bone substitutes for treatment of bony dehiscences</td>
<td>VAN ASSCHE N.**, MICHELS S., COCUKE W., NAERT I., QUIRYNEN M. (Belgium)</td>
</tr>
</tbody>
</table>
**11.00 - 12.20**

**VISIONS OF THE JUNIORS – IMPLANT DENTISTRY IN 2030**

Session organised by the JUNIOR COMMITTEE

The Junior Committee was created by the EAO Board in order to develop new ideas and thinking. This summer the Junior Committee hosted its first “Summer Camp” during which 40 invited young clinicians and researchers explored how implant dentistry might develop over the next 20 years. This session is their opportunity to present their conclusions.

**12.30 - 13.30**

> EAO General Assembly
Plenary Session 3

13.45 - 16.30

POSSIBILITIES FOR CONVENTIONAL DENTAL TREATMENT: HOW FAR CAN WE GO?
Chairpersons: Thomas TAYLOR, USA
Frauke MÜLLER, Switzerland

13.45 009*  Conventional crown and bridge treatment
Callum YOUNGSON, United Kingdom

14.15 010  Periodontal therapy
Hannes WACHTEL, Germany

14.45 - 15.10 Coffee break

15.10 011  Endodontic therapy
Claes-Erik REIT, Sweden

15.40 012  Removable prosthodontics
Nick JEPSON, United Kingdom

16.10 - 16.30 DISCUSSION
Thomas TAYLOR and Frauke MÜLLER

*The figures refer to the abstracts you will find in the October issue of COIR
## Parallel Session 3

### 13.45 - 16.30

**CONE BEAM CT IMAGING IN IMPLANT DENTISTRY**
Chairpersons: Pascal VALENTINI, France  
Michael NORTON, United Kingdom

| Time  | Session | Title                                                                 | Speaker                  | Country          |
|-------|---------|                                                                      |                         |                  |
| 13.45 | 028*    | Indications for conventional radiography in implant dentistry       | Kerstin GRÖNDAHL        | Sweden           |
| 14.15 | 029     | Indications for cone beam CT imaging in implant dentistry           | Andrew DAWOOD           | United Kingdom   |
| 14.45 - 15.10 | Coffee break |                                                                      |                         |                  |
| 15.10 | 030     | Radiation dose implications for cone beam CT investigations         | Hans-Göran GRÖNDAHL     | Sweden           |
| 15.40 | 031     | Accuracy and artefacts of cone beam CT imaging                      | Reinhilde JACOBS        | Belgium          |
| 16.10 - 16.30 | Discussion | DISCUSSION                                                          | Pascal VALENTINI and Michael NORTON |                  |

*The figures refer to the abstracts you will find in the October issue of COIR*
### Short Oral Communication 2

**Chairpersons:** Bjarni Pjetursson, Iceland  
Friedrich W. Neukam, Germany

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<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Presenters</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.45</td>
<td>069</td>
<td>Immediate loading of interforaminal implants using a chairside fabricated bar</td>
<td>Enkling N.**, Albrecht D., Bayer S., Stark H., Mericske-stern R.  (Switzerland)</td>
</tr>
<tr>
<td>14.30</td>
<td>072</td>
<td>3-year follow-up of immediately placed implants in sockets exhibiting periapical pathology</td>
<td>Truninger T.C.**, Philipp A., SIEGENTHALER D.W., Hämmerle C.H.F., Jung R., Roos M.  (Switzerland)</td>
</tr>
<tr>
<td>15.00</td>
<td>- 15.30</td>
<td>Coffee break</td>
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<tr>
<td>15.45</td>
<td>075</td>
<td>The implant-supported maxillary overdenture; a prospective randomised controlled trial on 4 versus 6 implants</td>
<td>Slot W.**, Meijer H., RAGHOEBAR G.  (Netherlands)</td>
</tr>
</tbody>
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*The figures refer to the abstracts you will find in the October issue of COIR  ** Presenters
13.30 - 16.30

Chairpersons: Marc QUIRYINEN, Belgium
Klaus GOTFREDSEN, Denmark

13.30 050*  ■ Single implants in the aesthetic zone: a randomised clinical trial to different implant neck designs
DEN HARTOG L.**, RAGHOEBAR G., STELLINGSMA K., VISSINK A., MEIJER H. (Netherlands)

13.50 051  ■ Influence of progressive loading on implant ability to withstand overloading forces
PODAROPOULOS L.**, VEIS A., TRISI P., PAPADIMITRIOU S., ALEXANDRIDIS C., PARISSIS N., KALYVAS D. (Greece)

14.10 052  ■ Different implant surface decontaminating procedures in surgical treatment of peri-implantitis
DE WAAL Y.**, JAN VAN WINKELHOFF A., WINKEL E., MEIJER H., RAGHOEBAR G. (Netherlands)

14.30 053  ■ Submerged vs non-submerged healing of implants for single tooth replacement in the aesthetic zone: results from a multicentre RCT
CORDARO L.**, CHEN S., SANZ M., WILTFANG J., WEINGART D., MARTIN W., GANELES J., IVANOFF C-J., JACKOWSKI J., GAHLERT M., JUNG R. (Italy)

14.50 054  ■ Marginal bone remodelling in “one abutment/one-time” versus “conventional” implant treatment concept: a 3-year prospective study
YOUNES R.**, NABIH N., ABI-NASSIF R., JABBOUR G. (Lebanon)

15.10 - 15.30  ■ Coffee break

15.30 055  ■ A RCT to evaluate a synthetic gel-membrane for GBR around dental implants – 1- and 3-year results
RAMEL C.**, HALG G., THOMA D., WISMEIJER D., HAMMERLE C., JUNG R. (Switzerland)

15.50 056  ■ Effectiveness of prophylactic antibiotics at placement of dental implants

16.10 057  ■ Immediate vs delayed implant placement in anteriors: The TIMING randomised controlled clinical trial

*The figures refer to the abstracts you will find in the October issue of COIR  ** Presenters
Plenary Session 4

09.00 - 12.15

CONTROVERSIAL ISSUES
Chairpersons: Stephen CHEN, Australia
Isabella ROCCHIETTA, Italy

09.00 013* Implant placement adjacent to and within endodontically infected sites
Marc QUIRYNEN, Belgium

09.30 014 Diagnosis and management of nerve damage following implant surgery
Tara RENTON, United Kingdom

10.00 - 10.45 Coffee break

10.45 015 When and how to connect implants to teeth
Bjarni PJETURSSON, Iceland

11.15 016 Choice of abutments
Irena SAILER, Switzerland

11.45 - 12.15 DISCUSSION
Stephen CHEN and Isabella ROCCHIETTA

*The figures refer to the abstracts you will find in the October issue of COIR
Parallel Session 4

09.00 - 12.15

SINUS SURGERY
Chairpersons: Christiaan M. Ten BRUGGENKATE, Netherlands
              Daniele BOTTICELLI, Italy

09.00 032* • The diagnosis and management of sinus pathology prior to sinus augmentation
         Pascal VALENTINI, France

09.30 033 • Graft materials for predictable outcomes
         Simon Storgard JENSEN, Denmark

10.00 - 10.45 Coffee break

10.45 034 • Future developments for sinus grafting
         Georg WATZEK, Austria

11.15 035 • Avoiding sinus graft surgery
         Robert HAAS, Austria

11.45 - 12.15 DISCUSSION
         Christiaan M. Ten BRUGGENKATE and Daniele BOTTICELLI

*The figures refer to the abstracts you will find in the October issue of COIR
09.00 - 12.00

**Chairpersons:** Julia WITTNEBEN, Switzerland
Massimo SIMION, Italy

**09.00 077***
11-year follow-up of zirconia implant-abutments in anterior and premolar regions
ZEMBIC A.**, PHILIPP A., HÄMMERLE C.H.F., SAILER I. (Switzerland)

**09.15 078**
Zirconia implant osseointegration: a histomorphometrical study in mini pigs
GAHLERT M.**, ROEHLING S., PRECHER C., KNIHA H., MILZ S., BORMANN K.-H. (Germany)

**09.30 079**
A presentation of a national web-based quality assurance system for oral implants.
SLOTTE C.**, SONDELL K., NILSSON P. (Sweden)

**09.45 080**
Stability of the grafted area in sinus floor elevation procedures using the layer technique: a 6 years radiographic follow-up.
KELLER P.**, KHOURY F. (Germany)

**10.00 081**
A three-year life-table analysis of dental zirconia implants with prosthetic evaluation.
BURTSCHER D.**, GRUNERT I., KNIHA H. GAHLERT M. (Austria)

**10.15 082**
New bone formation following sinus membrane elevation without bone grafting: histological findings in humans

**10.30 - 11.00**
Coffee break

**11.00 083**
Interfacial gene expression and stability of oxidised and machined titanium implants
OMAR O.**, LENNERÅS M., SUSKA F., EMANUELSSON L., HALL J., PALMOQUIST A., THOMSEN P. (Sweden)

**11.15 084**
Synthetic resorbable barriers versus anorganic bovine bone for sinus lift
FELICE P.**, PELLEGRINO G., SCARANO A., PISTILLI R., PIATTELLI M., ESPOSITO M. (Italy)

**11.30 085**
One-year results of a multicentre study, comparing two implant alloys

**11.45 086**
PepGen P-15® putty for the augmentation of the maxillary sinus floor
BUTZ F.**, BÄCHLE M., MARQUARDT K., KOHAL R. (Germany)

*The figures refer to the abstracts you will find in the October issue of COIR   ** Presenters
08.30 - 12.20

Chairpersons: Björn KLININGE, Sweden
Nikolaos DONOS, United Kingdom

08.30 049*
- Relative contributions of the osteogenic surfaces involved in periosteal distraction: an experimental study in rats
  SAULACIC N.**, SCHALLER B., HAENIWA H., BOSSHARDT D., IIZUKA T.
  (Switzerland)

08.50 041
- Effect of rhPDGF-BB on localised bone regeneration
  THOMA S.D. **, JUNG R., WEBER F., COCHRAN D., HÄMMERLE C.
  (Switzerland)

09.10 042
- Intermittent PTH fails to stimulate osseointegration in diabetic rats
  KUCHLER U.**, SPILKA T., BARON K., TANGL S., WATZEK G.,
  GRUBER R. (Austria)

09.30 043
- Effects of STZ-induced diabetes and tetracycline impregnation on the degradation of collagen membranes in rats
  MOSES O.**, WEINREB M., NEMCOVSKY C., HAIM T., ROMANOS G.,
  KOLERMAN R., MIEZI ELIEZER (Israel)

09.50 044
- Rough titanium topography upregulates FoxO/beta-catenin signalling in mesenchymal cells and protects them from oxidative stress
  GALLI C.**, PASSERI G., PIEMONTESE M., LUMETTI S., MANFREDI E.,
  CARRA M.C., MACALUSO M. G. (Italy)

10.10 045
- Association of IL4 genetic polymorphisms with dental implant loss
  ALVIM-PEREIRA F.**, MONTES C. C., PIGOSI S., SCAREL-CAMINAGA R.,
  TREVILATTO P.C. (Brazil)

10.30 - 11.00
Coffee break

11.00 046
- Biomimetic, BMP-2-functionalisation of Bio-Oss® confers osteoinductivity and improves biocompatibility
  WU G.**, HUNZIKER E.B., ZHENG Y., LIU Y., WISMEIJER D. (Netherlands)

11.20 047
- Influence of space filling materials in sub-sinusal bone augmentation: clot vs autogenous bone chips vs bovine hydroxyapatite
  LAMBERT F.**, LÉONARD A., DRION P., LAYROLLE P., ROMPEN E.
  (Belgium)

11.40 048
- fMRI shows cortical activation following mechanical stimulation of oral implants
  HABRE-HALLAGE P. **, REYCHLER H., VAN STEENBERGHE D.,
  JACOBS R., GRANDIN C. (Lebanon)

12.00 040
- Spontaneous progression of experimental peri-implantitis at implants with different surface characteristics.
  ALBOUY J-P. **, ABRAHAMSSON I., BERGLUNDH T. (Sweden)

Speakers cv p. 68 & 69

*The figures refer to the abstracts you will find in the October issue of COIR
** Presenters

13.45 - 14.00

> Research Award Ceremony

CLYDE AUDITORIUM
### Plenary Session 5

**14.00 - 15.45**

**SOFT TISSUE SURGICAL PROCEDURES**

Chairpersons: Otto ZUHR, Germany  
Carlo MAIORANA, Italy

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<tr>
<td>14.00</td>
<td>Soft tissue engineering - how far have we come?</td>
<td>Stephen FEINBERG, USA</td>
</tr>
<tr>
<td>14.30</td>
<td>The application of periodontal soft tissue surgery techniques to peri-implant defects</td>
<td>Giovanni ZUCHELLE, Italy</td>
</tr>
<tr>
<td>15.00</td>
<td>Peri-implant recession defect management</td>
<td>Michael STILLER, Germany</td>
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**15.30 - 15.45**

**DISCUSSION**

Otto ZUHR and Carlo MAIORANA

*The figures refer to the abstracts you will find in the October issue of COIR

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### Closing Ceremony

**15.45 - 16.00**

**> Closing Ceremony**
Dentsply Friadent Morning talk

World-class specialists sharing their expertise on inflammation management, treatment time reduction and the future in digital dentistry as well as the limits of prosthetically driven implant placement. Our top notch experts, lecturers and guests such as Associate Professor Dr. Wael Att, Dr. Nigel Saynor and Associate Professor Dr. Michael Stiller, will discuss the lectures.

Inflammation management
“Simple” suture dehiscences as well as purulent inflammations require a case-oriented management. Can we avoid these issues? When can we solve the problem conservatively and how is the protocol, when this is not possible? How do we decide? Prof. Dr. Fouad Khoury, a renowned specialist in the field of autogenous bone and complex augmentations, will show and discuss different approaches.

Treatment time reduction
Immediate loading is omnipresent. Currently, the discussion on the impact of primary stability experiences a revival. Dr. Marco Degidi will show pearls and pitfalls of immediate loading and share his pioneering invention with you. He has published numerous articles on this topic and has developed a unique concept for splinting implants at the time of insertion.

The future of guided surgery
3D diagnosis and guided implant placement have become a self-evident treatment option. But are we already at the edge? What comes next? Dr. Ali Tahmaseb is working in this field since years and has already brought guided surgery to the next level. He will share his study results with you and discuss the future impact on your daily practice.

New perspectives through innovation
Having pioneered many influential technologies and techniques in its field, Straumann lives its tradition of doing more to advance dental regeneration, restoration and replacement, as well as patient care. Straumann invests considerable resources in the development of innovative products and solutions for the benefit of patients and customers. In this Satellite Symposium, renowned speakers present and discuss latest innovations which cover the complete dental treatment process, starting from the planning to the final restoration.

Moderator
Prof. Dr. David Cochran, United States of America

Predictable Implant Placement Using Pre-operative Planning and Guided Surgery
Dr. Stephen Barter, United Kingdom

Innovative CAD-CAM Solutions for State-of-the-Art Aesthetic Restorations
Dr. Michael Heffernan, United Kingdom

More Confidence Through Innovations in Implant Technologies
Prof. Dr. David Cochran, United States of America

GBR Procedures Using Next-Generation Materials
Asst. Prof. Dr. Ronald Jung, Switzerland
Dr. Beat Wallkamm, Switzerland

Please check our website for the speakers’ abstracts, CVs and program updates: www.straumann.com/eao2010

Challenging defects in the aesthetic region

Long-term Stability of Contour Augmentation with GBR in Aesthetic Implant Dentistry
Prof. Dr. Daniel Buser, Switzerland
Today, approximately 40% of implants are placed in sites with aesthetic priority. In these sites, the primary objective of implant therapy is a successful aesthetic outcome with high predictability and a low risk for complications. Contour augmentation utilizing the GBR technique with collagen membranes combined with autogenous bone grafts and a low-substitution bone filler such as DBBM is an important prerequisite for successful aesthetic outcomes. The lecture will present the biologic and clinical rationale for contour augmentation in post-extraction implant sites, the step-by-step surgical procedures as well as latest results of several clinical studies documenting the long-term stability of contour augmentation.

The dilemma of the compromised tooth in the aesthetic zone - to treat or replace with an implant
Dr. Michael K. McGuire, USA
The decision to treat or replace a compromised tooth with an implant in the aesthetic zone is a complex one and involves many factors. Implants have a high success rate, but functional success does not always equate to aesthetic success. Advances in regeneration and periodontal plastic surgery are creating more treatment options especially for teeth. Specific attention will be given to soft tissue regenerative techniques and technologies, including the recent development of a natural collagen matrix specifically designed for this purpose. Risk assessment tools that help determine when to extract and when to treat will be discussed as well as the importance of considering patient reported outcomes.
**Advances and innovations for optimising aesthetic outcome and long-term success**

**Chairman:**
Dr. Stephen Jacobs

**Speakers:**
1. Dr. Alan Meltzer
2. Dr. Xavier Vela

**Content:**
In recent years, as the discipline of implantology has made significant advancements, so too have the tools available. These new tools support clinician’s work and in turn move the patient’s desires to the centre of treatment planning and enhance their overall satisfaction.

Moving beyond a “dental implant” company to become an integral Digital Dentistry Provider, BIOMET 3i has recently formed a relationship with Renishaw, the world’s leading manufacturer of in-lab dental scanning systems. This new partnership will allow BIOMET 3i to build on its developing portfolio of Patient Specific CAD-CAM restorative products and therefore offering new solutions to you and your patients.

Along with these new solutions, Peri-implantitis is again a hot topic for dentists and patients due to new evidence and data from rough surfaced implants that were first launched during the late 90’s. Whereas predictability of osseointegration continues to be one of the main focuses of research and investigation, other parameters are also known for being crucial in order to accomplish satisfying implant retained oral rehabilitation such as crestal bone preservation and primary stability.

During the presentations, Dr. Meltzer and Dr. Vela will portray clinical cases highlighting these new exciting solutions as well as sharing their latest insights surrounding Peri-Implantitis and other critical factors.

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**A Good Evening with Astra Tech**

**25 years of continuous evolution**

**Moderator and Speaker**
Dr. Michael R. Norton, United Kingdom

**Speakers:**
1. Prof. Richard Palmer, United Kingdom
2. Dr. Reva Barewal, USA
3. Prof. Mariano Sanz, Spain

**What constitutes implant treatment success factors to consider**

**The timing of implant loading a systematic approach for the single implant**

**Evolution of the Astra Tech BioManagement Complex™ a proven biomechanical concept with biological consequence**

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www.astratechdental.com

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**Soft and hard tissue regeneration: past, present and future**

**Speakers:**
Dr. Henry Salama, USA

Clinicians today have access to an astounding array of new technologies, tools and materials to utilise in their progressive and aesthetically oriented practices. However, none of them can ensure success if the treatment design is inadequate. This presentation will highlight current clinical perspectives as they relate to the state of the art in soft and hard tissue regeneration. Specific guidelines for the utilisation regenerative products will be outlined as well as new applications for future enhancement.

**Dr. Thomas Gottwald, Germany**
TUTOGEN MEDICAL GmbH

Effective regeneration of bony defects can be achieved with appropriate grafting methods. The treatment success depends significantly on the careful choice of graft materials. Both the chemical composition and the origin of bone graft materials can affect behaviour after implantation. Especially biologically derived materials require thorough manufacturing processing methods. This presentation gives a short overview about different bone graft materials, evaluates the respective biological behaviours after implantation and looks at future trends.
Preferred treatment concepts for today’s patient needs.

This is a great opportunity to gain insights from world-renowned clinicians, researchers and presenters.

Dr. Andrew Dawood, Dr. Roland Glauser, Dr. Stefan Holst, Dr. Paulo Malo, Dr. Isabella Rocchieta, Dr. Eirik Salvesen and Dr. Tristan Staas will, together with the moderator Dr. Tidu Mankoo, lead the session on the following themes:

• Immediate function
• Minimally invasive treatment procedures
• Soft Tissue Management
• Procedures for the fully edentulous jaw leading to long lasting prosthetics & function

Questions to be addressed by the Experts:

• When is the best timing and what are the best methods for achieving long lasting esthetic results?
• How can we utilize new technologies like CAD/CAM in combining surgical and prosthetic planning for optimal esthetic outcomes?
• Immediate Function: What are the advantages and in which indications can it be applied?
• What are the treatment modalities available today to avoid bonegrafting procedures for edentulous patients?
• How can we manage complex restorative solutions involving softtissue handling when different indications are to be treated?
• When are there advantages using mini-fl aps and what techniques are available?
• How do different implant designs affect our decision-making?
• What can we learn from scientific evidence supporting these clinical treatment procedures?

For more information, please go to our website www.nobelbiocare.com/events.

ISQ – The universal scale for measuring implant stability and making optimal loading decisions in daily practice

Implant treatment is evolving. Today, more patients ask for early function, and more patients with less favorable conditions are being treated. Implant stability is one of the most important parameters in both cases.

This creates a need for more capable diagnostic tools for measuring stability accurately and objectively. The ISQ scale (Implant Stability Quotient) meets this demand, as demonstrated in more than 230 published papers and 10 years of clinical use.

Four renowned clinicians, with extensive experience in implant treatment will present how they use the ISQ scale in their daily practice. Scientific data and clinical cases will be presented.

Moderator:
Prof. Lars Sennerby, Sweden

Speakers:
Prof. Daniel Buser, Switzerland
Dr. Jay Malmquist, USA
Dr. Paul Rosen, USA
Dr. Per-Olov Östman, Sweden

Read more about implant stability and ISQ on www.isqforum.com
Computer guided surgery. For every case. For every surgical preference.

A personalised SurgiGuide® drill guide ensures accurate and predictable computer guided surgery and provides the seamless link between a 3D treatment plan and actual treatment. Reduced surgery time, increased case success rates and aesthetic perfection thanks to prosthetic driven planning and surgery are just a few benefits of guided implant placement.

Internationally renowned speaker Michael Norton, BDS, FDS, RCS(Ed) will demonstrate how a SurgiGuide® can prove valuable in every implant case – from pretty straightforward cases to the more complex ones. SurgiGuide® showcases your high standards for safety, efficiency and functional aesthetics...and your determination to go even beyond these.

Come and join us to suck in the air of fresh insights. And we also want to give you a special treat: take home a surprise which will tingle all your senses...Experience an unforgettable morning with us at the EAO!

New developments of bioactive membranes for guided bone regeneration in implant dentistry
Prof. Christer Dahlin, Sweden

This presentation will address new findings and developments in membrane technology with focus on the use of bioactive barrier membranes in Guided Bone Regeneration.

Biomimetic Implant System: predictable placement and loading in extraction sites
Dr. Corinaldesi, Italy

This presentation, based on two recently published studies, will focus on the predictable success with the first biomimetic implant in placement and loading in post-extraction sockets.
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Poster authors will be presenting their work on Friday, 08th from 12:30 to 13:30 and on Saturday, 09th from 12:15 to 13:45. Each poster refers to a specific topic. Each topic has been assigned a different colour. Please refer to page 24 to find the location of the posters you would like to read.

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- Implant therapy outcomes, prosthetic aspects
- Tissue augmentation and engineering
- Technical and biological complications
- Basic research
- Material research

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## RESEARCH COMPETITION AND SHORT ORAL COMMUNICATION PRESENTERS

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Pre-Congress Course 1

STAGED LATERAL AUGMENTATION FOR IMPLANT SURGERY

> Frank RENOUARD

Franck Renouard graduated from the Dental University of Paris V in 1982. He was Jean François Tulasne's assistant in the Cranio-Maxillofacial Team of Paul Tessier from 1983 to 1988 in Paris. He has published several national and international articles and is author of two text books with Bo Rangert. The first one «Risk Factors in Implant Dentistry: Simplified Clinical Analysis for Predictable Treatment» was published in 10 languages. He lectures intensively on implants, immediate loading, biomechanics and bone grafting procedure.

Dr. Renouard was elected to the European Association for Osseointegration executive board in Amsterdam in 2000, and is the past President for the organisation. He is in private practice in Paris specialising in oral and implant surgery.

> Massimo SIMION

Degree of Medicine and Surgery at the University of Milan in 1979.
Specialisation in Odontostomatology and Dental Prosthodontics at the University of Milan in 1982.
Professor and Chairman of the Department of Periodontology and Implant Restoration at the Dental School of the University of Milan.
Member of the Board of the European Association for Osseointegration (EAO) 1998 - 2005.
President of EAO for the years 2001-2003 and Immediate Past-President for years 2004/2005.
Member of the Council of EAO since the year 2005.
Founder of the Italian Society of Osseointegration.
Active Member and Vice-President of the Italian Society of Periodontology (SidP) for the years 2003-2005.
He has published several scientific papers and is an international lecturer on the topics of Periodontology, Osseointegration and Bone Regeneration.

Staged Lateral Augmentation for Implant Surgery

The prime dictate prerequisite to predict long-term success for osseointegrated implants is a sufficient volume of healthy bone at recipient sites. However, a sufficient amount of bone volume is frequently lacking as a result of trauma or infectious diseases such as advanced periodontitis. A number of different techniques, like Guided Bone Regeneration and Autogenous Bone Grafts, have been developed to reconstruct deficient alveolar ridges to allow dental implant placement in either a simultaneous or staged approach.

Advances in tissue engineering may offer solutions that resolve bone volume deficits while at the same time eliminating some of the concerns posed by current techniques. The recombinant platelet derived growth factor (rh-PDGF-BB) has been extensively used as a potent regenerating factor in orthopaedics and periodontics with success. The principal aim would be to eliminate the need for autogenous bone harvesting and possibly eliminate the use of a barrier membrane. The presentation will present the available techniques and future trends for lateral staged ridge augmentation to allow implant placement.
Pre-Congress Course 2
SINUS GRAFTING FOR IMPLANT SURGERY

> Robert Haas
1983  Graduation MD.
1992  Graduation DDS with distinction.
1992  Fellowship at the Department of Oral Surgery Dental School University of Vienna (Head
Univ. Prof. Dr. Georg Watzek).
1998  PhD, in Dentistry at the University Clinic, Vienna.
2000  Associated Professor at the Department of Oral Surgery Dental School University of Vienna.
2004  Opening of the Implantacademy, Vienna.
2005  President of the Austrian Society for Oral Surgery and Implantology.

Presentations at several national and international Congresses.
Secretary at national and international Congresses.
Several awards for scientific research.
Participant on several training courses.
More than 60 scientific papers, contributions to medical books and publications

> Christiaan M. Ten BRUGGENKATE
Dr. C. (Chris) M. Ten Bruggenkate is Professor in Oral and Maxillofacial Surgery at the Free Univer-
sity / ACTA Amsterdam, Holland. He studied Dentis-
try at the State University, Utrecht and Medicine at
the Free University, Amsterdam, where he also did
his specialisation in OMF Surgery.
He has written over 80 articles and participated in writing text
books. Research on bone and bone substitutes form an important
part of his professional activities. He has significant experience in
lecturing nationally and internationally. His special field of interest
is pre-prosthetic surgery, pre-implant surgery, reconstructive sur-
gery, implant surgery and bone research.
Prof. Ten Bruggenkate played an important role in the develop-
ment and activities of the ITI.

> Stephen WALLACE
Dr. Stephen Wallace is a 1971 graduate of Boston
University School of Graduate Dentistry with a Cer-
tificate in Periodontics. He has been on the faculty
of the New York University Department of Implant
Dentistry for 16 years attaining the academic rank of
Associate Professor. He is a Diplomate of the Interna-
tional Congress of Oral Implantology and a Fellow of
the Academy of Osseointegration, currently serving
as co-chairman of the Academy of Osseointegration committee for
hands-on educational courses.
Dr. Wallace’s time at New York University is divided between clinical
teaching and human clinical and histologic research. He has helped
develop the world’s largest data base on sinus augmentation surge-
ry. He has performed research studies on products from the world’s
leading manufacturers of implants and bone regenerative materials
and is presently involved in research utilizing PDGF-BB and BMP-2 in
sinus augmentation surgery.
Dr. Wallace lectures at home and abroad on issues relating to dental
implantology and periodontics. He is the author of an evidence-
based review of the sinus augmentation procedure published in the
Annals of Periodontology and more than 30 journal articles and
textbook chapters. He is co-editor, along with Dr. Tolano Testori, of
a textbook on sinus elevation surgery recently published by Quin-
tessence that is now being published in 8 languages. In addition to
his faculty appointment, Dr. Wallace maintains a practice for Perio-
dontics, bone regeneration and implant dentistry in Waterbury, CT.
Dr. Wallace lives in Cheshire, CT with his wife, Bonnie and his cat,
Alley. His son, Eric, is an oral surgeon in Santa Barbara, CA and his
daughter is an attorney living in Martha’s Vineyard.

Sinus Grafting for Implant Surgery
This presentation will present the standard techniques for maxillary sinus elevation for the year 2010. These surgical
techniques and grafting decisions have been determined by the evolved evidence-base of the past 30 years. Both, auto-
genous bone as well as bone substitutes, as grafting procedures will be presented. Special attention will be paid to the
anatomy of the lateral maxilla and the maxillary sinus.
Possible complications of sinus augmentation surgery will be discussed.
Using this information as a platform, newer techniques and technologies will be presented that are presently available
or currently being evaluated in controlled studies.
Objectives:
Upon completion of this presentation, participants should be able to:
1) identify the most predictable sinus elevation techniques;
2) understand the rationale for decision making;
3) discuss current innovative technologies;
4) identify common causes of surgical complications;
5) understand the management of complications.
> Irena SAILER

Irena Sailer is an Assistant Professor at the Department of Fixed and Removable Prosthodontics and Dental Material at the University of Zurich, Switzerland. She is a Faculty member of the clinic. Additionally, since 2009 she has held an Adjunct Associate Professorship at the Department of Preventive and Restorative Sciences, Robert Schattner Centre, School of Dental Medicine, University of Pennsylvania, Philadelphia, USA.

In her clinical work she focusses on the comprehensive treatment of complex, partially edentulous patients applying all available options of reconstructive dentistry including dental implants. Scientifically Dr. Sailer’s activities concentrate on different prosthetic aspects of fixed reconstructions on teeth and implants. More specifically the application of all-ceramic materials and new fabrication technologies like the computer-aided manufacturing procedures (CAD-CAM) for fixed prosthodontics are being tested. Under her guidance numerous clinical trials of all-ceramic tooth- and implant-borne reconstructions have been performed or are ongoing. She collaborates intensely with the material sciences unit of the clinic. As part of this collaboration new materials and fabrication procedures are being tested in-vitro prior to the clinical application. Following the pre-clinical and clinical tests, Dr. Sailer’s group is aiming for a constant development and improvement of the clinic’s prosthodontic concepts.

Dr. Sailer is a member of various scientific organisations. Presently, she is Fellow of the International Team for Implantology (ITI). She has published numerous scientific and clinical articles and serves on the review boards of several scientific journals in the field.

> Julia WITTNEBEN

Dr. Julia-Gabriela Wittneben received her dental degree at the University of Witten/Herdecke in Germany. She obtained her Doctorate in Dental Medicine at the same institution. Dr. Wittneben completed a three-year postgraduate specialty training in prosthodontics at Harvard School of Dental Medicine and holds a Master of Medical Science (MMSc) degree from Harvard University. She was awarded with the «Joseph L. Henry Award» from Harvard University for overall achievement in clinical and research training and contribution to the University.

Since 2008, she has been Assistant Professor at the Division of Fixed Prosthodontics at the University of Bern, Switzerland. Dr. Wittneben actively participates in clinical research related to prosthodontics, esthetics and implant therapy. Her work has been published in International peer reviewed journals. She is ad hoc reviewer for the journal “Clinical Oral Implants Research”.

Dr. Wittneben is a fellow of the International Team for Implantology (ITI), member of the European Association for Osseointegration (EAO), American College of Prosthodontists (ACP), International Association for Dental Research (IADR) and the Swiss Dental Association (SSO).
Pre-Congress Course 4
COMPLEX CASE MANAGEMENT – TREATMENT STRATEGIES FOR LONG-TERM SUCCESS

> Stefano GRACIS

Dr. Gracis received his D.M.D. degree in 1986 from the University of Pennsylvania, (Philadelphia, Pennsylvania, USA) and, in 1987, from the University of Pavia (Pavia, Italy). In 1990, he obtained the certificate in Prosthodontics with an M.S.D. degree at the University of Washington in Seattle under the guidance of Dr. Ralph Yuodelis. He then returned to Milan, Italy, where he has been working ever since in private practice limiting his activity to prosthodontics and restorative dentistry. From 1998 to 2004, he was a guest lecturer at the University of Parma (Parma, Italy). He is an active member and past Secretary General of the European Academy of Aesthetic Dentistry (EAED) and the immediate past president of the Italian Academy of Prosthetic Dentistry (AIOP). He is on the Editorial Board of the International Journal of Prosthodontics, European Journal of Aesthetic Dentistry and European Journal of Oral Implantology. He has contributed several articles in the field of restorative dentistry and he lectures and gives courses regularly, both nationally and internationally, on topics related to fixed prosthodontics and implant prosthodontics.

> Nicola ZITZMANN

Nicola Ursula Zitzmann received her Board-Examination and Dental Degree at the University of Aachen, Germany in 1991, finished her doctoral dissertation in 1992 and worked as an assistant in private practice for 2.5 years. From 1994 to 1997, she completed the postgraduate program at the Department of Fixed and Removable Prosthodontics and Dental Material Sciences in Zurich, Switzerland. From 1997, N. Zitzmann worked as Assistant Professor at the Department of Fixed and Removable Prosthodontics and TMJ Disorders at the University of Basel (Switzerland) and completed the specialist training in Reconstructive Dentistry in 2001. She finished her habilitation thesis (equivalent to Ph.D.) entitled “Prosthodontic treatment of the edentulous patient with particular consideration given to implant-supported restorations” in 2004. N. Zitzmann has been a Visiting Assistant at the Department of Periodontology at the University of Göteborg, Sweden, and achieved her Ph.D. degree in the field of Periodontology in 2006. Currently, she is Professor in the Clinic for Periodontology, Endodontology and Cariology at the University of Basel. She is a member of the International College of Prosthodontics, the Swiss Society of Periodontology (SSP) and the Swiss Society of Reconstructive Dentistry (SSRD).

Complex case management – treatment strategies for long-term success.
Clinicians face the difficult task of judging the influence and significance of multiple risk factors of periodontal, endodontic or prosthetic origin, which can affect the prognosis of an abutment tooth. The purpose of this overview is to summarise the crucial factors involved in deciding whether a questionable tooth is treated and maintained, or extracted and possibly replaced by dental implants. A consensus view of specialists in periodontology, endodontics and reconstructive dentistry (prosthodontics) is presented based on their clinical expertise and the best external evidence available. Tooth maintenance and the acceptance of risks is suitable when the tooth is not extensively diseased, the tooth has a high strategic value particularly in patients with implant contraindications, the tooth is located in an intact arch, and the preservation of gingival structures is paramount. When complete-mouth restorations are planned, the strategic use of dental implants and smaller units (short-span FDPs) either tooth- or implant-supported, as well as natural tooth abutments with good prognoses for long-span FDPs is recommended to minimise the risk of failure of the entire reconstruction.
Plenary Session 1
AESTHETICS: CLINICAL GUIDELINES

> Paul STONE

Paul is General Secretary of the EAO Board, Chairman of the Specialty Advisory Board in Implant Dentistry of the Royal College of Surgeons of Edinburgh, a Past President of the UK Association of Dental Implantology (ADI) and Member of the General Dental Council Implant Training and Education Group. He is a Fellow of the International Team for Implantology (ITI) and also works as a member of teaching and lecturing staff at both Dundee University Dental Hospital and School and Edinburgh Postgraduate Dental Institute (consultant).

His main interests are in the surgical aspects of implant and reconstructive surgery.

> Daniele BOTTICELLI

MD, DDS at the University of Bologna (Italy) in 1980, specialist license in General Surgery at the University of Modena (Italy) in 1986, Odont. Dr. (PhD) at Göteborg University (Sweden) in 2006. Director of “Ariminum Research & Dental Education Centre (ARDEC)” in Rimini, (Italy) since 2000. Head of the division of Oral Surgery in Ariminum Odontoiatrica, Rimini (Italy) since 2001. Professor in the postgraduate course, University of the State of São Paulo (UNESP), Faculty of Araçatuba (Brazil). Visiting professor at the University of Padova, (Italy). Member of the Editorial Board of the Journal of Clinical Periodontology.

He has published a series of experimental and clinical articles, mainly regarding the healing of marginal defects around implants and immediate implants. He is performing a series of experimental and clinical studies in implantology at the Faculty of Dentistry of Araçatuba, UNESP São Paulo (Brazil) and at the Faculty of Dentistry of Habana (Cuba).

Hard tissue characteristics affecting aesthetic outcomes
Alveolar bone crest characteristics will affect soft tissue adaptation around implants. The lecture will focus on some of these characteristics and their impact on marginal soft tissue, both at implants installed in healed alveolar bone crest as well as at implants installed into alveolar sockets immediately after tooth extraction. Implant positioning, bone crest width, platform configuration as well as their effect on the surrounding marginal soft tissue will be discussed.

> Otto ZUHR

Dr. Otto Zuhr studied dentistry at the University of Aachen from 1986 until 1992. In 1992 he received his DMD from the Department of Oral and Maxillofacial Surgery in Aachen and started to work as a dentist in Munich. Several educational programs led him to Switzerland, Scandinavia and the USA during the following years. From 1999 – 2008 he worked together with Drs. Bolz, Wachtel, and Hürzeler and became an associate member in the Institute of Periodontology and Implantology (IP) in Munich. In 2009 he founded a new clinic together with Marc Hürzeler.

Otto Zuhr has written several articles in the field of periodontology and aesthetic dentistry and lectures nationally and internationally. In 2001 he received his Specialist in Periodontology of the German Society of Periodontology (DGP). Since 2007 he has been board a member of the German Society of Periodontology (DGP).

Soft tissue characteristics affecting aesthetic outcomes
The achievement of long-term aesthetic and stable peri-implant soft tissues is a difficult and demanding task. With regard to the definition of soft tissue characteristics that affect aesthetic outcomes it is necessary to distinguish between "quantity" and "quality-aspects": while it’s desirable to completely reconstruct existing tissue defects or prevent defect formation after extraction (soft tissue quantity) it’s in addition necessary to achieve all attributes of a natural and healthy gingiva – colour, keratinisation and surface-characteristics of the peri-implant mucosa need to match with the neighbouring natural dentition, scar formation and excessive tissue must be avoided (soft tissue quality). Beside the description of relevant aesthetic parameters this presentation will focus on scientific methods to analyse and measure these parameters. The potential of existing clinical concepts with a view to optimum peri-implant soft tissue aesthetics will be outlined.
> Daniel BUSER

Dr. Daniel Buser is Professor and Chairman at the Department of Oral Surgery and Stomatology, and Executive Chairman of the School of Dental Medicine at University of Bern in Switzerland. He stayed twice in the USA at Harvard School of Dental Medicine, Boston (1989-91) and Baylor College of Dentistry in Dallas (1995). In 2007/08, he spent a Sabbatical at the University of Melbourne.

He served as President of various academic associations, the European Association for Osseointegration (EAO) in 1996/97, the Swiss Society of Oral Implantology (1999-2002), the Swiss Society of Oral Surgery and Stomatology (2002-07). He is also a member of the Board of Directors of the Osteology Foundation (2004-), and President of the Swiss Implant Foundation (2007-). Since August 2009, he has served as ITI President (International Team for Implantology).

He has received several scientific awards from professional organisations such as the André Schroeder Price (1995) by the ITI, the Osseointegration Foundation Research Award (1966 and 2007) by the Academy of Osseointegration, the Honorary Membership Award (1997) by the American Academy of Osseointontology, and the Daniel M. Laskin Award (1997) by the American Association of Oral and Maxillofacial Surgeons.

His main research areas are in bone regeneration around endosseous implants, surface technology and Guided Bone Regeneration. He has authored and co-authored roughly 250 publications, and several text books including a GBR book and two ITI Treatment Guides.

> Urs BELSER

Graduated at the Dental Institute, University of Zurich, Switzerland. Postgraduate training in Fixed Prosthodontics and Occlusion. Assistant Professor and then, Senior Lecturer at the Department of Fixed Prosthodontics and Dental Materials of the University of Zurich; Switzerland. Postgraduate training in Fixed Prosthodontics and Occlusion of the University of Geneva School of Dental Medicine. President of the Swiss Association of Prosthetic Dentistry from 1984 to 1988. Recipient of the Scientific Research Award of the Greater New York Academy of Prosthodontics in 2002. President of the European Association of Prosthodontics (EPA) from 2002 to 2003. 2006 Visiting Professor, Harvard University (Boston, USA), Department of Restorative Dentistry and Biomaterials Sciences (Prof. Dr. H. P. Weber). Research activities in the fields of implant dentistry and dental ceramics.

The influence of provisional restorations on final aesthetics

Various clinical approaches for the replacement of extracted teeth with implant-supported restorations have emerged in recent years. This presentation will focus on treatment protocols currently used to predictably restore aesthetics and function in the partially edentulous anterior maxilla. In this context, provisional restorations play a major role for both soft tissue conditioning and diagnostics. The fundamental difference between single tooth sites, two adjacent missing anterior maxillary teeth, and more extended edentulous segments, often accompanied by significant horizontal and vertical tissue deficiencies, will be addressed, including the related clinical/laboratory step-by-step procedures.

> Stephen CHEN

Dr Chen is a specialist periodontist in private practice in Melbourne, Australia. He graduated BDS (Malaya) in 1983, MDS (Melbourne) in 1987, FRACDS in 1988 and PhD in 2008.

Dr Chen is past-president of the Australian and New Zealand Academy of Periodontists and Australian Osseointegration Society. He is a Senior Fellow at the School of Dentistry, University of Melbourne. Dr Chen is a Fellow of the International Team for Implantology (ITI) and is Chairman of the Australasian ITI Section. He also serves as Chairman of the ITI Education Core Committee. He has lectured widely in Australasia, South East Asia, Europe and the US.

The optimal timing and positioning of implant placement for improved aesthetics

The clinician has the option of placing implants at the time of tooth extraction (immediate or Type 1 placement), soon after tooth extraction (early implant placement, or Type 2 and 3 placement) or after the site has fully healed (late or Type 4 placement).

Each of these approaches of the timing of implant placement has its advantages and disadvantages. In aesthetic sites, biological and post-surgical events have a significant effect on the stability of the mucosa, and the resultant soft tissue aesthetic results. Based on recent clinical and experimental evidence, this lecture will discuss the advantages and disadvantages of each approach, and provide recommendations for the optimal timing of implant placement of improved aesthetic outcomes.
### Parallel Session 1

#### OPTIONS FOR IMPLANT RESTORATIONS

**CHAIRPERSON**

**Jaime A. Gil**

Professor and Chairman of Prosthodontics. University of the Basque Country (Bilbao – Spain).

Past-President of the European Academy of Aesthetic Dentistry.

Past-President of the Spanish Society of Prosthodontics.

Past-President of International College of Dentists (European Section).

Board Member of the European Association for Osseointegration.

Member of the following International Organisations:
- European Association for Osseointegration
- European Academy of Aesthetic Dentistry
- American Academy of Aesthetic Dentistry
- American Academy of Restorative Dentistry
- American Academy of Fixed Prosthodontics

Editorial activity:
- Editor in chief of the Spanish version of the European Journal of Aesthetic Dentistry.
- Co-Director of the Spanish version of the International Journal of Periodontics and Restorative Dentistry.
- Advisory Board of the Journal of Aesthetic and Restorative Dentistry

**SPEAKER**

**Frauke Müller**

Frauke Müller has been professor and chair for gerodontology and removable prosthodontics at the University of Geneva, Switzerland, since 2003. She graduated in dentistry from the University of Bonn, Germany and later worked in the Prosthetic Department of the University of Mainz. She spent several years at the London Hospital Medical College, England in a research program in gerodontology. Professor Müller has served on the board of many professional associations: European College of Gerodontology, Geriatric Oral Research Group of the IADR. Since 2010 she has been President of the Swiss Society for Dentistry for handicapped and elderly persons (SGZBB). She is Associate Editor of Gerodontology. Her research activity is mainly related to gerodontology, oral function as well as complete and overdentures.

**SPEAKER**

**Joerg-Rudolf Strub**

Dr. J. R. Strub, born in 1948, received his D.D.S., Dr. Med. Dent. and Dr. Med. Dent. Hab. (PhD equiv) degrees from the University of Zurich, Switzerland in 1975/1985 and the Dr. h.c. from the National and Kapodistrian University, Athens, Greece, in 2008. He was a Visiting Assistant Professor of Biomaterials at Tulane University and Louisiana State University, New Orleans, USA, 1982-1983. From 1982 -1983 he was Associate Professor and co-director of the Graduate Programme in Periodontal Prosthetics at the University of Zurich. Since 1988 Dr. Strub has been Professor and Chair of the Department of Prosthodontics at the Albert-Ludwigs University in Freiburg, Germany. He was a Visiting Clinical Professor of Fixed Prosthodontics at the Osaka University in Osaka, Japan in 1996. Since 2005 he has been Associate Dean for Clinical Affairs at the Albert-Ludwigs University in Freiburg, Germany. Dr. Strub is married and has one child.

**SPEAKER**

**Overtreatment designs**

The potential benefits from an implant treatment in elderly adults are well documented. Implant-supported overdentures may ease some of the functional, psychological and psychosocial disabilities following tooth loss and thus increase the oral health related quality of life until late in life. However, what overtreatment design is the most adequate and how many implants are required in which clinical situation? “There is now overwhelming evidence that a 2-implant overdenture should become the first choice of treatment for the edentulous mandible” is the conclusion of the McGill Consensus Statement published in 2002. The question arises whether more recent treatment concepts with more or less implants replace this statement. With the population ageing and more and more persons losing their natural dentition later in life, there is also an increasing need for age-adequate overdenture designs which meet the clinical, functional and socio-economic context of old and oldest old patients. These treatment concepts need also to take into account the growth of the ageing population and thus the considerable challenge for health care systems with limited funds.

**Fixed rehabilitation of the edentulous maxilla**

The aim of this presentation is to describe the different treatment approaches available for the fixed rehabilitation of the edentulous maxilla in the presence of varying hard and soft tissue conditions and to review the clinical outcome of each treatment approach.
CHAIRPERSON
Rudolf Führhauser, MD, DMD

1977-1983 Study of Medicine, Medical Faculty, University of Vienna, MD
1983-1987 Education - general practitioner
1987-1989 Education at Dental School of Vienna, DMD
since 1990 Assistant Professor - Prosthodontic Department of Dental School of Vienna since 2004 Academy for Oral Implantology

Main topics: implant prosthetics, aesthetics, biomechanics, partial denture design

SPEAKER
Thomas Taylor
Dr. Taylor is professor and head, Department of Reconstructive Sciences and chairman, Division of Prosthodontics and Operative Dentistry at the University of Connecticut School of Dental Medicine. He is involved in both clinical and laboratory research and has published extensively in the prosthodontic literature. He is a past editor of the International Journal of Oral and Maxillofacial Implants. Dr. Taylor currently serves as Executive Director of as well as being Past President of the American Board of Prosthodontics and he is Past President of the American College of Prosthodontists and the International Team for Implantology (ITI). He currently serves as president of the International College of Prosthodontists. Dr. Taylor maintains a part-time practice limited to prosthodontics.

THURSDAY AFTERNOON

SPEAKER
Stefano Gracis
Dr. Gracis received his D.M.D. degree in 1986 from the University of Pennsylvania, (Philadelphia, Pennsylvania, USA) and, in 1987, from the University of Pavia (Pavia, Italy). In 1990, he obtained the certificate in Prosthodontics with an M.S.D. degree at the University of Washington in Seattle under the guidance of Dr. Ralph Yuodelis. He then returned to Milan, Italy, where he has been working ever since in private practice limiting his activity to prosthodontics and restorative dentistry. From 1998 to 2004, he was a guest lecturer at the University of Parma (Parma, Italy).

He is an active member and past Secretary General of the European Academy of Aesthetic Dentistry (EAED) and the immediate past president of the Italian Academy of Prosthodontic Dentistry (AIDIP). He is on the Editorial Board of the International Journal of Prosthodontics, European Journal of Aesthetic Dentistry and European Journal of Oral Implantology.

He has contributed several articles in the field of restorative dentistry and he lectures and gives courses regularly, both nationally and internationally, on topics related to fixed prosthodontics and implant prosthodontics.

Fixed partial dental prostheses: cement vs screw retained

Everyone who restores dental implants has an opinion as to what the best method of retention for fixed prostheses is. The advantages of screw retained and cement retained prostheses have frequently been discussed but with little scientific evidence to support those discussions. This presentation will attempt to clarify the current evidence and give some guidelines based upon that evidence.

Metal-ceramics vs all ceramic restorations

Up to now, metal-ceramics has been considered the standard for fabricating fixed prosthesis since it reconciles excellent mechanical and physical properties with the ability to deliver good aesthetics. The advent of new metal free materials and systems attempts to challenge this standard. This lecture will analyse the indications and requirements for metal-ceramic prostheses vs a number of all ceramic restorations, and it will address the dilemmas facing the clinician when deciding which materials to employ for the implant supported restoration.
Plenary Session 2
CAD-CAM IN IMPLANT DENTISTRY – CURRENT AND FUTURE APPLICATIONS

> Christoph HäMMERLE

Educational background
1982  Graduation as DMD, School of Dental Medicine, University of Bern, Switzerland
1986 – 1988  Postgraduate Studies in Periodontology, School of Dental Medicine, University of Bern, Switzerland
1986 – 1987  Postgraduate Studies in Reconstructive Dentistry, School of Dental Medicine, University of Bern, Switzerland
专业背景
1988 – 1989  Visiting Assistant Professor, Department of Stomatologie, University of California, San Francisco, USA
1989 – 1991  Assistant Professor, Department of Crown and Bridge Prosthodontics, University of Bern, Switzerland
1997 – 2000  Associate Professor, Department of Periodontology & Fixed Prosthodontics, University of Bern, Switzerland
2001 – present  Chairman, Department of Fixed and Removable Prosthodontics and Dental Material Sciences, Centre for Dental and Oral Medicine and Cranio-Maxillofacial Surgery, University of Zürich, Switzerland

2000  Director, Graduate Program in Reconstructive Dentistry (ISRD/ISO), University of Zürich, Switzerland

Christoph Hämmeler 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 restorative dentistry. His main scientific interests encompass biological and prosthetic aspects of the treatment with dental implants as part of the overall restorative treatment concept. In the area of guided bone regeneration he has developed and refined treatment modalities by applying basic experimental research as well as clinical evaluations in patients.

A recent focus in the area of bone and soft tissue reconstruction lies in the development of techniques involving growth factors, appropriate carrier materials and new technologies for GBR membranes. In the area of reconstructive dentistry Prof. Hämmeler is part of a research team focusing on development and application of new ceramic materials (ceria, alumina) for fixed reconstructions on implants and teeth.

President-elect of the European Association of Osseointegration (EAO), President of the Osteology Foundation, Board member of the Swiss Society of Implantology (SGI), Committee member for specialist certification in prosthodontics in Switzerland, Co-editor of the 1st Consensus Conference Report of the EAO published in Clinical Oral Implant Research 2006, Congress President of the 15th Annual Scientific Meeting of the EAO 2006 in Zürich, Switzerland.

SPEAKER

Ronald JUNG

Ronald Jung is trained in oral surgery, prosthodontics and implant therapy. He is currently Vice Chairman of the Department of Fixed & Removable Prosthodontics and Dental Materials Science at the University of Zurich in Switzerland (Chairman: Prof. Dr. Ch Hämmeler). In 2006 he worked as Visiting Associate Professor at the Department of Periodontics at the University of Texas Health Science Centre at San Antonio, USA (Chairman: Prof. Dr. D. Cochran).

He has 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.

Surgical guidance using CAD-CAM technology

Current dental implantology aimed to develop techniques that can provide optimal 3D implant positioning with respect to both prosthetic and anatomical parameters. Important achievements in this field have undoubtedly been the introduction of cone beam technique (CBCT), 3D implant planning software, and CAD-CAM technology in implant dentistry.

As many of these techniques are already available in clinical practice it is of great importance to evaluate the possibilities and limitations of computer-assisted implant dentistry in clinical applications. Hence, the aim of this lecture is to discuss the clinical procedure of computer-assisted implant dentistry, the clinical indications and the accuracy and clinical performance of computer technology applications in surgical implant dentistry.

The role of the prosthodontist in optimizing the aesthetic result of restorations designed with CAD-CAM techniques

A predictable aesthetic final result in the anterior region is often largely dependent upon close co-operation between prosthodontist, and implantologist, especially in the case of patients with high smile line.

Tissue management procedures on implants during the provisional phase will be discussed and their importance emphasised in order to integrate anterior restorations into the oral environment in such a way as to achieve aesthetic and biological predictability.

Selection of the appropriate ceramic material is fundamental to obtain an excellent result. Nowadays, the undeniable role played by CAD-CAM technology allows the clinician to achieve an ideal abutment shape and final restoration contour, either in the case of single restorations or full-mouth rehabilitations.
Andrew DAWOOD

Andrew is a Registered Specialist in Periodontology and Prosthodontics, working in private and hospital practice. He has 20 years of experience in Implant Dentistry, and is particularly interested in implant reconstruction in the atrophic jaw, and in craniomaxillofacial surgery. He has been working extensively with Cone Beam Computed Tomography (CBCT) for five years, and shares a passion for imaging and 3D manufacturing technologies with a team of scientists and technologists based at his London practice. Andrew is a member of the UK Health Protection Agency Working Party on CBCT.

Daniel WISMEIJER

Studied dentistry at the University of Nijmegen Dental School from 1979-1984.
After graduating he joined the department of Oral Function and worked in the section of special dental care and Maxillofacial Prosthodontics. He received his PhD in 1996 on the subject of overdentures on dental implants; "The Breda Implant Overdenture Study". In that year he left academia. From 1985 till 2006 he worked at the Amphia teaching Hospital in Breda in the department of Oral Surgery and Maxillofacial Prosthodontics.
In 1985 he started a general dental practice which since 1990 has been a referral practice for Oral Implantology. He has been an ITI fellow since 1993. In 2006 he accepted the position of Professor of Oral Implantology and Prosthetic Dentistry at ACTA Amsterdam which he combines with his referral practice. The main research areas in his department are focused on "CAD-CAM treatment optimisation", "Implant surface and bone substitute optimisation" and "the evaluation of different implant based treatment modalities".

Albert MEHL

Albert Mehl qualified as a dentist in 1989 at the Friedrich-Alexander University in Erlangen-Nuernberg. He continued his studies including a Master Degree in Physics there before being appointed Assistant Professor in the Department of Restorative Dentistry, Periodontology and Pediatric Dentistry in 1992. He then moved to a similar position in the Ludwig-Maximilians University of Munich the following year before becoming a full Professor in 2002 and a further academic doctorate in human biology in 2003.
His research activities embrace the physical and mechanical properties of restorative materials with particular emphasis on ceramics and composites. His specific research in CAD-CAM computerised dentistry covers scanner and software developments, which already resulted in a number of commercial products. Especially the research of functional and biological morphology of teeth led to the biogeneric tooth model.
He has over the years received a number of prizes including an award from the Dental Ceramic Group in 2002 and one from the Society of Dental Informatics in 2007. Since 2008 Albert Mehl has been visiting Professor in the Department of Computerised Dentistry in Zurich University. His professional affiliations include both the International Association for Dental Research (IADR) and Continental European Division for Dental Research (CED).

The present and future for CAD-CAM technologies

Computer-assisted fabrication of dental restorations plays a growing role in clinical practice. A variety of CAD-CAM systems and concepts is now available for applications of this type. Especially, new intraoral scanning systems and new developments in software will shift the work flow of the fabrication process closer to the dental office, hence changing the conventional way of treatment and diagnosis. This lecture will give an overview of the actual state concerning the clinical impact of present systems and will show and discuss research results which point out the possibilities of CAD-CAM for the near future.
Parallel Session 2
QUALITY OF LIFE FACTORS

> Mark THOMASON

Professor Mark Thomason is the Director of Education and Learning in the School of Dental Sciences, Newcastle University. He was awarded the Personal Chair of Prosthodontics and Oral Rehabilitation, Newcastle University in 2003 and is an Honorary Consultant in Restorative Dentistry in the Newcastle upon Tyne Hospitals NHS Foundation Trust. He was a Visiting Professor, and is currently Adjunct Professor, of the Faculty of Dentistry in McGill University, Canada. In the past 5 years he has served as President of the British Society for the Study of Prosthetic Dentistry, President of the European College of Gerodontology, and as consecutive Presidents of the Prosthodontics Research Group and the Geriatric Oral Research Group of the International Association of Dental Research. He is a leading authority on patient centred outcomes for oral rehabilitation in the edentulous particularly in the area of implant rehabilitation and his research group is internationally recognised in this field. Professor Thomason is the Editor of the European Journal of Prosthodontics and Restorative Dentistry and is a Fellow of the Centre for Excellence in Healthcare Professional Education.

> Tim NEWTON

Tim Newton is Professor of Psychology as Applied to Dentistry at King's College London Dental Institute and leads the Oral Health, Workforce and Education Research theme. Tim Newton has worked in the behavioural sciences in relation to dentistry for the last 17 years, and his particular interests include self-perceived oral health and quality of life, the working life of the dental team and patients' perceptions of treatment. He has published articles and books on stress and the dental profession, workforce planning in dentistry, and patients' perceptions of the process and outcome of treatment. In 2007 he received the Giddon Award for distinguished research in the behavioural sciences. In 2008 with his colleagues Koula Asimakopoulou and Suzanne Scott, he founded the United Kingdom's first Health Psychology Service for people who are dentally anxious. He is Deputy Director of Research & Development for the King's College Hospital NHS Foundation Trust. Outside the dental field he is interested in research into individuals with severe mental retardation and those with eating disorders. He was Chair of Trustees of a National Charity for Eating Disorders in the United Kingdom.

Psychological and psychiatric factors influencing implant treatment
A consideration of psychological and psychiatric factors is imperative in the assessment, planning and evaluation of implant treatment. Patients may have expectations of the process and outcome of implant treatment which are unrealistic and likely to lead to dissatisfaction. Such unrealistic expectations may be sufficiently extreme to warrant a diagnosis of body dysmorphic disorder. The importance of identifying such patients prior to treatment will be emphasised. In addition, this talk will explore patients' motivation for treatment, their preferred treatment experiences and their valued treatment outcomes.

> Mariano SANZ

> MD – Degree-Universidad Complutense of Madrid
> Specialist in Stomatology. Universidad Complutense de Madrid
> Specialist in Periodontology. University of California, Los Angeles (UCLA)
> Doctor in /of Medicine (PhD degree). Universidad Complutense de Madrid
> Professor of Periodontology. Universidad Complutense de Madrid
> Dean of the Faculty of Odontology. Universidad Complutense de Madrid
> Director of the Graduate Programme “Master in Periodontology”. Universidad Complutense de Madrid
> Past-President of the International Association for Dental Research (IADR-CED)
> Associate Editor of the Scientific Journal Evidence-Based Dental Practice and Journal of Clinical Periodontology
> Member of the Editorial Committee of the following Scientific Journals: Journal of Periodontal Research, Clinical Oral Implant Research, Journal of Dental Research, Oral Diseases, Clinical Oral Investigations and Journal de Parodontologie
> Has published more than 150 articles and book chapters in Periodontology, Implant Dentistry and Dental Education.

How to meet our patients’ expectations in aesthetic treatments. What are the psychological determinants?
Aesthetics is defined as the study of beauty in all forms and expressions, but when we are dealing with human beauty, aesthetics is always associated with physical attractiveness and we doctors as providers of aesthetic treatments are always confronted with how to deal with the patient’s aesthetic expectations. We must know the psychological bases of human beauty and try to understand whether beauty is in the eye of the beholder, or rather is inbred in our brains. In this presentation I shall try to answer some of these issues reviewing the current aspects of research on beauty from the anthropological, psychosocial and neurophysiologic aspects.
Joerg-Rudolf STRUB

Dr. J. R. Strub, born in 1948, received his D.D.S., Dr. Med. Dent. and Dr. Med. Dent. Habil. (PhD equiv) degrees from the University of Zurich, Switzerland in 1975/1985 and the Dr. h.c. from the National and Kapodistrian University, Athens, Greece, in 2008. He was a Visiting Assistant Professor of Biomaterials at Tulane University and Louisiana State University, New Orleans, USA, 1982-1983. From 1982 -1983 he was Associate Professor and co-director of the Graduate Programme in Periodontal Prosthetics at the University of Zurich. Since 1988 Dr. Strub has been Professor and Chair of the Department of Prosthodontics at the Albert-Ludwigs University in Freiburg, Germany. He was a Visiting Clinical Professor of Fixed Prosthodontics at the Osaka University in Osaka, Japan in 1996. Since 2005 he has been Associate Dean for Clinical Affairs at the Albert-Ludwigs University in Freiburg, Germany. Dr. Strub is married and has one child.

Rudolf FÜRHAUSER

1977-1983
Study of Medicine, Medical Faculty, University of Vienna, MD
1983-1987
Education - general practitioner
1987-1989
Education at Dental School of Vienna, DMD
since 1990
Assistant Professor - Prosthodontic Department of Dental School of Vienna
since 2004
Academy for Oral Implantology
Main topics: implant prosthetics, aesthetics, biomechanics, partial denture design

Speech implications of implant prosthetics
Establishment of correct articulatory phonetics is a challenge in conventional prosthodontic restoration, but is even more challenging in implant dentistry, especially in maxillary implant-supported fixed prosthesis. This is due to the fact of alveolar process deficiency, premolarisation of occlusion or malpositioned implants compromising the airflow. Speech sounds are created by modifying the airflow on the way from the lungs through the oral and nasal cavities. Only when there is intimate knowledge of the prerequisites of each sound can one adequately restore patients’ speech. This knowledge should lead to standardised protocols in daily treatment. Especially the s-sound is one of the most misarticulated. To form this sound correctly, the sides of the tongue touch the sides of the teeth, the air travels over the centre of the tongue passing the interincisal space. As a consequence five key factors for the articulation of the s-sound have been defined. As a result a standardised checklist has been developed that would be useful in patients with challenging maxillary implants.

Merete BAKKE

Merete Bakke - Associate Professor, Faculty of Health Sciences, University of Copenhagen - clinician and scientist in the field of orofacial pain and function. She has a PhD on the effect of acupuncture on the pain perception thresholds of teeth, and achieved her degree of Dr. Odont. by a dissertation on physiology, action and effect of dental occlusion on the mandibular elevator muscles. She holds a specialty in stomatognathic physiology, is head of the TMD clinic and teaches clinical oral physiology and oral neurophysiology. Her research is comprehensive:

> Basic pain mechanisms and drug effect on TMJ and peripheral nerves in animals
> Physiologic studies on the masticatory system in man in terms of bite force, intramuscular blood flow and swelling, muscle fatigue and fibre typing
> The significance of dental occlusion, facial morphology, food consistency and physiological stress
> Clinical studies on temporomandibular disorders including juvenile chronic arthritis, joint mobility and pain, and muscular dystrophy

Her current research deals with screening for orofacial dysfunctions, masticatory function with implant-supported dentures, and oral function in patients with severe neurological disorders. A specific topic is the use of botulinum toxin in the treatment of focal and segmental dystonia involving oromandibular muscles, drooling associated with neurodegenerative diseases and spasticity and TMJ dislocations and disc displacements.

Masticatory efficiency after implant therapy
The masticatory function has been shown to be dependent on the number of posterior teeth, occlusal contacts and bite force. This report deals with the effect of treatment with 1-4 implant-supported single crowns (mainly premolars) on masticatory function and related parameters in 18 subjects with tooth agenesis. The treatment was associated with significant increases in the masticatory ability and performance as well as the contact area and the bite force. Thus subjects with agenesis may benefit from this type of treatment. However, as the functional parameters before replacement of the teeth corresponded to values in subjects with complete dentitions, the functional importance of the increase may be questioned. Clin Oral Impl Res 2010; 21:108-14.
Short Oral Communication 1

> Niklaus P. LANG

Professor of Implant Dentistry, University of Hong Kong, 2008; Professor Emeritus, University of Berne, Switzerland, Chairman 1980-2008.
PhD, University of Berne, 1978; Master of Science in Periodontics, University of Michigan, 1975; Dr. Med. Dent., University of Berne, 1970.

Published over 450 articles in peer-reviewed journals and several textbooks. Over 2000 lectures in 5 continents.

Editor-in-chief: Clinical Oral Implants Research
Editor: Oral Health and Preventive Dentistry
Assoc. Editor: Journal of Investigative and Clinical Dentistry

> R.M FREY

Response of crestal bone to platform switched healing abutments.

> Y-D KWON

The effects of enamel matrix derivative on the proliferation and differentiation of human mesenchymal stem cells.

> T. LINKEVICIUS

Influence of subgingivally located margins on amount of undetected cement.

> R. KOHAL

BONITmatrix® for sinus floor augmentation: a randomised controlled histologic investigation.

> Niklaus P. Lang

How to read, prepare and write a scientific paper.
The literature is replete with publications that may only contribute very little to the understanding of an issue. Hence, it is important to know how to select the papers that really contribute to the promotion of the field and to interpret the conclusions of an article regarding its scientific value and clinical relevance. Articles follow a hierarchy of evidence where the Randomised Controlled Clinical Trial (RCT) takes the lead. Systematic reviews may even present higher levels of evidence if enough and homogenous RCTs allow a meta-analysis of data to answer conclusively a focused question. In many fields of dentistry, however, systematic reviews and RCTs are sparse. Consequently, lower levels of evidence, i.e. prospective and retrospective cohort studies have to be interpreted.

In scrutinising the literature, not only the hierarchy of articles, but also the composition of an article and its reporting of the data determine the quality of a paper. Obviously, the well-constructed and descriptive papers that allow reproduction of the study represent articles of great value. Also, conclusions on the basis of a valuable validation process through appropriate statistical analyses contribute to an improved standard in writing the scientific paper.
Richard Palmer is Professor of Implant Dentistry and Periodontology and Head of Restorative Dentistry at King’s College London Dental Institute at Guy’s, King’s and St Thomas’ Hospitals. He is a Past President of the British Society of Periodontology and of the European Federation of Periodontology. He is involved in the Specialist training programme in Periodontics and the MSc programme in Implant Dentistry. He has lectured and published widely. He is a member of the editorial boards of the Journal of Clinical Periodontology and Clinical Implant Dentistry and Related Research.

D. Ricket
Sinus lift with BioOss® and autogenous bone or stem cells.

K. Grandfield
Electron tomography: a tool for the study of osseointegration in 3D.

L. Cannullo
Soft tissues around long-term platform-switching implant restorations in humans: histological evaluation.

M. Dierens
Above 15-year follow-up of single machined Brånemark implants.

G. Cardaropoli
Bone healing after immediate implant placement in extraction sites. A randomised prospective clinical study.

N. Van Assche
Comparison of two bone substitutes for treatment of bony dehiscences.
POSSIBILITIES FOR CONVENTIONAL DENTAL TREATMENT: HOW FAR CAN WE GO?

Dr. Taylor is professor and head, Department of Reconstructive Sciences and chairman, Division of Prosthodontics and Operative Dentistry at the University of Connecticut School of Dental Medicine. He is involved in both clinical and laboratory research and has published extensively in the prosthodontic literature. He is a past editor of the International Journal of Oral and Maxillofacial Implants. Dr. Taylor has served as President of the American Board of Prosthodontics and is Past President of the American College of Prosthodontists and the International Team for Implantology (ITI). He currently serves as president of the International College of Prosthodontists. Dr. Taylor maintains a part-time practice limited to prosthodontics.

Callum Youngson qualified from the University of Dundee in 1982. His first academic position was as a fixed-term lecturer in Periodontology at Leeds in 1983 before gaining an appointment as a lecturer in Restorative Dentistry. Between 1988 and 1996 he gained FDS, DRD, MRD, FDS (Rest Dent) and his DDSc at the University of Leeds in 1997. In that year he was appointed as an Honorary Consultant in Restorative Dentistry and was Director of Taught Postgraduate Studies and Head of Conservative Dentistry at Leeds Dental Institute delivering the undergraduate and postgraduate programmes in the areas of endodontics, prosthodontics and operative dentistry until 2003. He was appointed Professor in Restorative Dentistry in Liverpool in January 2004 with responsibility for reorganising undergraduate activity at that time. He has several roles on national committees within restorative dentistry and was formerly Chairman of the Association of Consultants and Specialists in Restorative Dentistry. He is now Vice-Chairman. He sits on a number of panels for the Royal College of Surgeons of Edinburgh and is an examiner in MRD RCS (Edin). In January 2007 he was appointed as Head of Division of Dentistry with operational responsibility for the BDS programmes, and was appointed to Head of School of Dentistry at the University of Liverpool in 2008.

Conventional crown and bridge treatment implant retained prostheses are often the ideal treatment option in the case of missing teeth. However, there remain a significant number of people who, for one reason or another, cannot obtain this mode of treatment. Whilst preparing the natural dentition for fixed prosthodontic treatments, significant changes may be induced in the pulpal tissues that can affect the long-term survival of the teeth and prosthesis. This plenary will consider the factors which affect the longevity of crown and bridgework affixed to teeth and compare the data with those of implant retained fixed prostheses.
Frauke MÜLLER has been professor and chair for gerodontology and removable prosthodontics at the University of Geneva, Switzerland, since 2003. She graduated in dentistry from the University of Bonn, Germany and later worked in the Prosthetic Department of the University of Mainz. She spent several years at the London Hospital Medical College, England in a research program in gerodontology. Professor Müller has served on the board of many professional associations: European College of Gerodontology, Geriatric Oral Research Group of the IADR. Since 2010 she has been President of the Swiss Society for Dentistry for handicapped and elderly persons (SGZBB). She is Associate Editor of Gerodontology. Her research activity is mainly related to gerodontology, oral function as well as complete and overdentures.

Claes-Erik REIT

Endodontic therapy
The last 10-15 years have seen a tremendous technological development that facilitates endodontic treatment and enhances the potential to increase its overall standard. For example, the advent of super-flexible nickel-titanium alloy has made it possible to fabricate instruments that can follow the root canal and make it easier to produce good quality canal preparations and root fillings. The surgical microscope has brought light and vision into the pulp chamber and working under high magnification has made it far easier to control intracanal procedures. Also, the microscope in combination with new tools and retro filling materials has increased the healing potential of surgical endodontics.

Nick JEPSON
Dr Nick Jepson is currently Senior Lecturer/Honorary Consultant in Restorative Dentistry at the School of Dental Sciences, Newcastle University, UK where he now heads the Department of Restorative Dentistry. He graduated from the Royal Dental Hospital, London in 1971 and, after two years oral surgery training and four years in general dental practice, he took up training in Restorative Dentistry at the Royal Dental and Eastman Dental Hospitals obtaining his BDS in 1978. He was appointed Lecturer in Prosthetic Dentistry, University of Hong Kong in 1988 and returned to the UK in 1984 as a Lecturer in Prosthodontics, University of Newcastle. He was awarded his PhD in 1991 and was appointed to his current position in 1998. He is a long-standing and influential member of the British Society for the Study of Prosthetic Dentistry and served as that Society’s President for the years 2006-7. Despite a heavy administrative load, he maintains an active clinical, research and teaching profile. As an honorary consultant at Newcastle Dental Hospital, most of his clinical work is associated with managing collapsing older dentitions, tooth wear and the effects of tooth loss. In addition, he is the lead Restorative clinician on the internationally recognised interdisciplinary hypodontia team based at Newcastle. His current research activity is strongly clinically based and reflects his clinical interests. He is particularly interested in the evaluation of treatment strategies for replacing missing teeth including how they affect quality of life and diet, and evaluating these interventions in primary and secondary care settings. He has lectured widely on this subject and has published over 80 peer reviewed scientific papers and abstracts. As a teacher, he has led the development of innovative curricula in Restorative Dentistry in general and Prosthodontics in particular. He is the author of a textbook on removable partial dentures that is now established as a standard text on the subject.

Removable Prosthodontics
This presentation will focus on the use of removable partial dentures (RPDs). Important changes in the partially dentate population, both demographic and individual, have occurred and continue to occur. Advances in the use of implant supported prostheses and adhesive techniques, together with an increasing patient awareness of newer technologies, appear to be associated with a substantial reduction in the use of RPDs in many parts of Europe. This presentation will describe these changes, present evidence for the effectiveness of the current provision of RPDs and describe challenges to the traditional use of RPDs. On the basis of this evidence, a re-evaluation of the role of RPDs in the restoration of the partially dentate patient will be presented, together with speculation as to future trends in the use of RPDs.
Parallel Session 3
CONE BEAM CT IMAGING IN IMPLANT DENTISTRY

> Pascal VALENTINI
Dr Pascal Valentini received his DDS at the University of Paris VII in 1982. He is the Program Director of the Postgraduate in Oral Implantology at the University of Corsica and Associate Professor at the Department of Restorative Dentistry at the University of Loma Linda (USA). Invited Professor at the University of Liege (Belgium). He is a Board member of the European Association for Osseointegration, an international speaker and author of several papers in the field of bone regeneration and maxillary sinus grafting. Dr Valentini has a private implant dentistry practice in Paris.

> Kerstin GRÖNDAHL
Professor, DDS, Odont Dr
Head of the Institute for Postgraduate Dental Education, Jönköping, Sweden
Doctor of Dental Surgery, 1972 University of Gothenburg, Sweden.
Instructor, teacher and associate professor, Department of Oral Radiology, Faculty of Odontology, University of Gothenburg, Sweden 1973-2003.
Professor, Department of Oral and Maxillofacial Radiology, Faculty of Odontology, University of Gothenburg, Sweden 2004-2007.
Head of The Institute for Postgraduate Dental Education, Jönköping, Sweden 2008 to the present.
Written around 100 scientific articles and textbook chapters.

Indications for conventional radiography in implant dentistry
Computed tomography and cone beam computed tomography provide detailed information about the three dimensions in potential implant sites making implant surgery a safe procedure. Nevertheless, in many cases sufficient information can be obtained with a combination of a thorough clinical examination and conventional 2D-radiography as represented by intraoral and panoramic techniques. The former can, for example, often suffice in the case of the single implant and the latter when implants are to be placed in the lower anterior region. Advantages are lower costs and radiation doses and the availability of these techniques in most dental offices. However, as soon as there is doubt about the width of the jawbone a tomographic technique should be used.

> Andrew DAWOOD
Andrew is a Registered Specialist in Periodontology and Prosthodontics, working in private and hospital practice. He has 20 years of experience in Implant Dentistry, and is particularly interested in implant reconstruction in the atrophic jaw, and in craniomaxillofacial surgery. He has been working extensively with Cone Beam Computed Tomography (CBCT) for five years, and shares a passion for imaging and 3D manufacturing technologies with a team of scientists and technologists based at his London practice. Andrew is a member of the UK Health Protection Agency Working Party on CBCT.

Indications for cone beam CT imaging in implant dentistry
CBCT technology has radically transformed access to three-dimensional imaging for implant dentistry. Should CBCT be used routinely for pre-surgical assessment? Whilst examining the indications for cone beam CT, this presentation will attempt to reconcile the desire for exemplary imaging, with the range of scanner types and scan protocols available. Recommendations will be made as to how each scan can be optimised for the particular needs of the patient and the particular intervention that is required.
Radiation dose implications for cone beam CT imaging

During the last decade, there has been an upward trend in using 3D information as an aid to dentomaxillofacial diagnostics and surgical planning. This has been further strengthened by the introduction of dental cone beam CT allowing volumetric jaw bone imaging at reasonable costs and doses. CBCT imaging may offer numerous diagnostic potentials and even change treatment strategies in oral healthcare. Yet, an exponential growth of the different CBCT machines available and fast evolutions with respect to dose and image quality have created an almost unbridgeable time gap between reporting of scientific evidence and the actual clinical use of CBCT. Recent studies in the framework of the SedentexCT Euratom project indicate crucial differences in accuracy and artefact expression depending on both equipment and patient factors. The relative contribution of those variables to the resulting clinical image dataset will be discussed.
Bjarni E. Pjetursson

Dr. Pjetursson received his DDS from University of Iceland in 1990. From 1990 to 2000 he worked as a general dentist in his private clinic in Iceland.

In 2000 he started his postgraduate training in Periodontology and Implant Dentistry at the University of Berne, Switzerland. He received his specialist certificate (EFP & SSP) and Masters of Advanced Studies in Periodontology and Doctorate in Dentistry (Dr. Med. Dent) from the Faculty of Medicine, University of Berne, Switzerland.

From 2003 to 2005 he did his postgraduate training in Prosthodontics at the University of Berne, Switzerland.

From 2005 he was an Assistant Professor and Senior lecturer at the Department of Periodontology and Fixed Prosthodontics, University of Berne.

Presently he is a Professor and Chairman of the Department of Reconstructive Dentistry, Faculty of Odontology, University of Iceland.

Dr. Pjetursson is an ITI Fellow and member of the editorial board of Clinical Oral Implants Research, European Journal for Oral Implantology and Schweizer Monatschrift für Zahnmedizin.

Dr. Pjetursson has published extensively in recent years. He has also given over 200 lectures in 30 countries around the world.

His research interests are clinical studies in Implant Dentistry and evidence-based evaluation of different treatment modalities in Implant- and Prosthetic Dentistry.

N. Enkling

Immediate loading of interforaminal implants using a chairside fabricated bar.

X. Hu

Maxillary sinus augmentation following removal of maxillary sinus pseudocyst after a shortened healing period.

J. C. Wohlfahrt

Porous titanium granules in the surgical treatment of peri-implant osseous defects – A randomised clinical trial.

T. Truninger

3-year follow-up of immediately placed implants in sockets exhibiting periapical pathology.

G. Telleman

Effect of platform-switching on peri-implant bone around short implants: a RCT.
Friedrich W. NEUKAM

1970 to 1976 dental studies at Mainz University.
1979 to 1984 medical studies at Hannover University.
Trainee in oral and maxillofacial surgery and senior staff at the Department of Oral & Crano-Maxillofacial Surgery at Hannover University Medical School.
1990 PhD, 1994 Associate Professor.
Since 1995 Chairman and Head at the the Department of Oral & Crano-Maxillofacial Surgery at Erlangen-Nuremberg, University Dental School.
Since September 2000 member of the EAO Board. Acting EAO President (2006-2008).
Since October 2003 Editorial Board Member of the Journal Oral Science International.
Professional work is focused on cleft lip and palate, orthodontic surgery, tumour surgery, implantology, bone grafts in combination with implants.

S. SAUERBIER

Risk factors for loss of immediately placed implants in molar regions: a randomised controlled trial.

W. SLOT

The implant-supported maxillary overdenture; a prospective randomised controlled trial on 4 versus 6 implants.

T. URBAN

Bone marrow concentrate and bovine bone mineral for sinus lift. A controlled, randomised, single-blinded trial.

T. MORIMOTO

Gingival biotype assessment in the aesthetic zone: visual versus direct measurement.
Professor M. Quirynen graduated in 1980 as dentist at the Catholic University of Leuven and finished in 1984 his training in periodontology at the department of Periodontology (Catholic University Leuven). In 1986 he presented his Ph.D. entitled: “Anatomical and inflammatory factors influence bacterial plaque growth and retention in man”. In 1990 he was appointed professor at the Faculty of medicine of the Catholic University of Leuven to teach periodontology and anatomy. His research deals mainly with oral microbiology, with special attention to the influence of surface characteristics on bacterial adhesion and the effect of antiseptics. He has published over 200 full papers in international peer-reviewed journals. He is a member of the editorial board of the Journal of Clinical Periodontology (associate editor), Clinical Oral implants Research, Periodontal Practice Today and Parodontologie.

> L. DEN HARTOG
50
Single implants in the aesthetic zone: a randomised clinical trial to different implant neck designs.

> L. PODAROPOULOS
51
Influence of progressive loading on implant ability to withstand overloading forces.

> Y. DE WAAL
52
Different implant surface decontaminating procedures in surgical treatment of peri-implantitis.

> L. CORDARO
53
Submerged vs non-submerged healing of implants for single tooth replacement in the aesthetic zone. Results from a multicentre RCT.
Marginal bone remodelling in «one abutment/one-time» versus «conventional» implant treatment concept: a 3-year prospective study.

A RCT to evaluate a synthetic gel-membrane for GBR around dental implants: 1- and 3-year results.

Effectiveness of prophylactic antibiotics at placement of dental implants.

Immediate vs delayed implant placement in anteriors: the TIMING randomised controlled clinical trial.
Implant placement adjacent to and within endodontically infected sites

Several recent case reports reported on “retrograde peri-implantitis”, a bone destruction (radiolucency) around the apical part of an osseointegrated implant. It often develops within the first months after implant insertion, without major clinical signs. Within the limitations of case reports, one can conclude that retrograde peri-implantitis is provoked by remaining scar or granulomatous tissue at the recipient site, endodontic pathology of extracted tooth (scar tissue-impacted tooth) and/or endodontic pathology from a neighbouring tooth. Several treatment strategies have been proposed. A profound curettage of the defect seems sufficient to stop the bone destruction process, but a resection of the apical part of the implants might further improve the outcome, with good long-term survival data.

Diagnosis and management of nerve damage following implant surgery

Background: Implant treatment has the potential to damage the inferior alveolar nerve via direct trauma, pressure or neurotoxicity.

Methods: The authors reviewed all cases of involvement of the inferior alveolar nerve resulting from root canal therapy in patients seen in a tertiary referral centre during a three-year period.

Results: 40 patients presenting to the specialist nerve injury clinic at Kings Health Partners with implant related neuropathy. A high number of these patients presented with persistent neuropathic pain.

Conclusion: It is imperative that dental practitioners are aware of the incidence of neuropathic pain that may result from iatrogenic nerve injury and the significant ensuing disability. Practitioners should have an awareness of risk factors relating to inferior alveolar nerve injury. By understanding the risk factors and modification of intervention as a result, more of these injuries will be prevented.
When and how to connect implants to teeth

In daily practice, dentists routinely face the challenge of making fast and difficult decisions. These are mostly influenced by paradigms dictated by basic dental education and many years of clinical practice. Scientific evidence provided by well-controlled studies is rarely available to influence and/or determine the treatment plan. When planning a fixed reconstruction, the options are solely tooth-supported or solely implant-supported fixed dental prostheses (FDPs). These treatment options have various documented longevities and biological as well as technical risks that should be considered during treatment planning.

During this lecture, the question of whether teeth and implants should be connected in a single reconstruction, will be addressed. Several common clinical situations will by discussed and attempts will be made to perform evidence-based treatment planning. Special considerations will be given to how to connect teeth and implants in combined tooth-implant-supported FDPs. Should the connection be rigid, or is there a need for a non-rigid connection to compensate for the differences in mobility of teeth and implants? Finally, clinical conclusions based on the available evidence will be presented.

Choice of abutments

Today, several types of implant abutments are available in order to fulfill all clinical needs resulting in a high number of possibilities for the choice of the restorative implant components. On the one hand, a choice has to be made between standardised and customised abutments. On the other hand, different abutment materials like titanium or various high strength ceramics (alumina, zirconia) are being offered. This huge variety of abutments may complicate the clinical decision-making.

For the choice of abutment several factors have to be considered. Most of those are aesthetic. The crucial factors for the decision-making are the visibility of the abutment materials and new fabrication technologies like the computer-aided manufacturing procedures (CAD-CAM) for fixed prosthodontics being tested. Under her guidance numerous clinical trials of all-ceramic tooth- and implant-borne reconstructions have been performed or are ongoing. She collaborates intensely with the material sciences unit of the clinic. As part of this collaboration new materials and fabrication procedures are being tested in-vitro prior to the clinical application. Following the pre-clinical and clinical tests, Dr. Sailer’s group is aiming for a constant development and improvement of the clinic’s prosthodontic concepts.

Dr. Sailer is a member of various scientific organisations. Presently, she is Fellow of the International Team for Implantology (ITI). She has published numerous scientific and clinical articles and serves on the review boards of several scientific journals in the field.
Parallel Session 4
SINUS SURGERY

> Christiaan M. Ten BRUGGENKATE
Dr. C. (Chris) M. Ten Bruggenkate is Professor in Oral and Maxillofacial Surgery at the Free University / ACTA Amsterdam, Holland. He studied Dentistry at the State University, Utrecht, and Medicine at the Free University, Amsterdam, where he also did his specialisation in OMF Surgery. He has written over 80 articles and participated in writing text books. Research on bone and bone substitutes form an important part of his professional activities. He has significant experience in lecturing nationally and internationally. His special field of interest is pre-prosthetic surgery, pre-implant surgery, reconstructive surgery, implant surgery and bone research.
Prof. Ten Bruggenkate played an important role in the development and activities of the ITI.

> Pascal VALENTINI
Dr Pascal Valentini received his DDS at the University of Paris VII in 1982. He is the Program Director of the Postgraduate in Oral Implantology at the University of Corsica and Associate Professor at the Department of Restorative Dentistry at the University of Loma Linda (USA). Invited Professor at the University of Liege (Belgium). He is a Board member of the European Association for Osseointegration, an international speaker and author of several papers in the field of bone regeneration and maxillary sinus grafting.
Dr Valentini has a private implant dentistry practice in Paris.

The diagnosis and management of sinus pathology prior to sinus augmentation
According to the literature, it is well known that the occurrence of postoperative chronic sinusitis appears to be limited to patients with a predisposition for this condition. In order to prevent post- and also perioperative complications it is very important to be able to identify precise anatomical particularities and to diagnose the health status of maxillary sinus. Effectively managing these parameters is essential for case selection.

> Simon Storgard JENSEN
DDS from the School of Dentistry, University of Copenhagen 1996, certified specialist in Oral and Maxillofacial Surgery 2004. ITI scholar for one year at the Dept. of Oral Surgery and Stomatology, School of Dental Medicine, University of Bern from 2001 and has since then attained a part-time research fellowship at the same department. Since 2005 consultant oral and maxillofacial surgeon at the Dept. of Oral & Maxillofacial Surgery, Copenhagen University Hospital with responsibility for the resident training program. 2003-2009 vice president of the Danish Association for Oral and Maxillofacial Surgery. Education delegate of the Danish ITI Section since it was founded in 2005. Main research and focus areas are: experimental evaluation and clinical performance of bone grafting materials, bone augmentation procedures, bone growth factors and surgical endodontics. The results have been presented in international lectures, book chapters, and several publications in peer reviewed journals.

Graft materials for predictable outcomes
Different graft materials for sinus floor elevation procedures have been studied extensively and a large series of grafting protocols may be considered well documented. The grafting possibilities ranges from merely elevating the Schneiderian membrane leaving the space created beneath to be filled with coagulum to augmenting the sinus cavity with autogenous bone blocks. The presentation will focus on the predictability of the different grafting protocols based on the available clinical evidence. Healing times for different clinical scenarios will be suggested based on the biologic behaviour of autografts and bone substitute materials.
> Daniele BOTTICELLI  
MD, DDS at the University of Bologna (Italy) in 1980, specialist license in General Surgery at the University of Modena (Italy) in 1986, Odont. Dr. (PhD) at Göteborg University (Sweden) in 2006. Director of “Ariminum Research & Dental Education Centre (ARDEC)” in Rimini, (Italy) since 2000. Head of the division of Oral Surgery in Ariminum Odontologica, Rimini (Italy) since 2001. Professor in the postgraduate course, University of the State of São Paulo (UNESP), Faculty of Araçatuba (Brazil). Visiting professor at the University of Padova, (Italy). Member of the Editorial Board of the Journal of Clinical Periodontology. He has published a series of experimental and clinical articles, mainly regarding the healing of marginal defects around implants and immediate implants. He is performing a series of experimental and clinical studies in implantology at the Faculty of Dentistry of Araçatuba, UNESP São Paulo (Brazil) and at the Faculty of Dentistry of Habana (Cuba).

> Georg WATZEK  
1976 Fellowship at Columbia University, New York  
1978 Residencies at Neurosurgery and ENT Department, University of Vienna  
1979 Specialty board examination in Oral and Maxillofacial Surgery  
Appointed senior resident since 1982 Head of Department of Oral Surgery, University Clinic of Dentistry, Medical University of Vienna  
1983-2003 President of the Austrian Society of Oral Surgery and Implantology  
1987-1989 Chairman of the School of Dentistry of the University of Vienna  
1989-1993 President of the Austrian Society of Dentists and Stomatologists  
1991 Honorary member of the Hungarian Society of Dentists and Stomatologists  
1994-1997 Visiting Professor at the University of Pennsylvania since 1998 Chairman of the School of Dentistry of the Medical University of Vienna  
2000 PhD, in Dentistry at the University Clinic, Vienna  
2004 Opening of the Implantacademy, Vienna.  
2005 President of the Austrian Society for Oral Surgery and Implantology.  
Presentations at several national and international Congresses. Secretary at national and international Congresses. Several awards for scientific research. Participant on several training courses. More than 60 scientific papers, contributions to medical books and publications.  
Future developments for sinus grafting Future developments in sinus lift procedures in clinical practice must definitely include a reliable preoperative assessment of the complete surgical region – in particular the maxillary sinus region – for absence of inflammations, a three-dimensional imaging of the skeletal situation, minimisation of surgical efforts and expenses by employment of improved percrestal techniques, employment of a sinus-mucosa preserving bone perforation technique, e.g. using piezo, laser or stop drill, improved measures for avoiding mucosal ruptures upon elevation, reliable osteogenerative potential of the augmentation material even with large-scale defects and applicability with minimally invasive access as well as postoperative radiological evaluation of the complete surgical region including the maxillary sinus. Additional measures would include reliable demonstration of potential mucosal perforation and development of appropriate therapeutic measures as well as three-dimensional planning of implant insertion to ensure precise and accurate positioning of implants in the augmented region.

> Robert HAAS  
1983 Graduation MD.  
1992 Graduation DDS with distinction  
1992 Fellowship at the Department of Oral Surgery Dental School University of Vienna (Head Univ. Prof. Dr. Georg Watzek).  
1998 PhD, in Dentistry at the University Clinic, Vienna  
2000 Associated Professor at the Department of Oral Surgery Dental School University of Vienna  
2004 Opening of the Implantacademy, Vienna.  
2005 President of the Austrian Society for Oral Surgery and Implantology.  
Presentations at several national and international Congresses. Secretary at national and international Congresses. Several awards for scientific research. Participant on several training courses. More than 60 scientific papers, contributions to medical books and publications.  
Avoiding sinus graft surgery  
A worldwide increase in sinus lifts procedures has led to a rapid increase of negative adverse effects and complications. Therefore alternative treatment methods have to be considered. The lecture will deal with numerous kinds of treatment modalities like tilted implants, guided implantation, short implants, zygoma implants, tuber implants and palatal implants. Advantages and disadvantages of those methods will be discussed extensively and shown in case cohort studies. Retrospective studies and analysis of a single implant centre will be given as well as treatment trees to show exact indications for different treatments with special regard to implant success.
> Julia WITTNEBEN

Dr. Julia-Gabriela Wittneben received her dental degree at the University of Witten/Herdecke in Germany. She obtained her Doctorate in Dental Medicine at the same institution. Dr. Wittneben completed a three-year postgraduate specialty training in prosthodontics at Harvard School of Dental Medicine and holds a Master of Medical Science (MMSc) degree from Harvard University. She was awarded with the «Joseph L. Henry Award» from Harvard University for overall achievement in clinical and research training and contribution to the University.

Since 2008, she has been Assistant Professor at the Division of Fixed Prosthodontics at the University of Bern, Switzerland. Dr. Wittneben actively participates in clinical research related to prosthodontics, esthetics and implant therapy. Her work has been published in International peer reviewed journals. She is ad hoc reviewer for the journal "Clinical Oral Implants Research”.

Dr. Wittneben is a fellow of the International Team for Implantology (ITI), member of the European Association for Osseointegration (EAO), American College of Prosthodontists (ACP), International Association for Dental Research (IADR) and the Swiss Dental Association (SSO).

> A. ZEMBIC

11-year follow-up of zirconia implant-abutments in anterior and premolar regions.

> C. SLOTTE

A presentation of a national web-based quality assurance system for oral implants.

> M. GAHLERT

Zirconia implant osseointegration: a histomorphometrical study in mini pigs.

> P. KELLER

Stability of the grafted area in sinus floor elevation procedures using the layer technique: a 6 years radiographic follow-up.

> D. BURTSCHER

A three-year life-table analysis of dental zirconia implants with prosthetic evaluation.
Massimo SIMION
Degree of Medicine and Surgery at the University of Milan in 1979.
Specialisation in Odontostomatotology and Dental Prosthodontics at the University of Milan in 1982.
Professor and Chairman of the Department of Periodontology and Implant Restoration at the Dental School of the University of Milan.
Member of the Board of the European Association for Osseointegration (EAO) 1998 - 2005.
President of EAO for the years 2001-2003 and Immediate Past-President for years 2004/2005.
Member of the Council of EAO since the year 2005
Founder of the Italian Society of Osseointegration.
Active Member and Vice-President of the Italian Society of Periodontology (SidP) for the years 2003-2005.
He has published several scientific papers and is an international lecturer on the topics of Periodontology, Osseointegration and Bone Regeneration.

J-J AHN
New bone formation following sinus membrane elevation without bone grafting: histological findings in humans.

O. OMAR
Interfacial gene expression and stability of oxidised and machined titanium implants.

P. FELICE
Synthetic resorbable barriers versus anorganic bovine bone for sinus lift.

H. MEIJER
One-year results of a multicentre study, comparing two implant alloys.

F. BUTZ
PepGen P-15® putty for the augmentation of the maxillary sinus floor.
Björn Klinge, DDS, Odont Dr., Professor and Chairman Division of Periodontology. Former Dean of Faculty of Odontology and Head of Department Dental Medicine, Karolinska Institutet. He is Guest Professor of Periodontology at Malmo University.

Björn Klinge received his DDS from Lund University, Sweden, in 1977 and earned his doctorate in Odontology in 1984, also from Lund University. In 1988 he became recognised specialist in Periodontology by the Swedish National board of health and welfare. In 1994 Björn Klinge was appointed Professor and Chair of Periodontology at the Karolinska Institute in Stockholm. Soon after his arrival he was appointed Dean and he was responsible for extensive development of the Dental faculty, including education, research and clinical activities. The major focus in his research is related to periodontal regeneration, tissue-integrated implants and the relation between oral infections and systemic health. He is scientific editor for the Journal of the Swedish Dental Association and he is editorial board member for several scientific journals. Dr Klinge is a board member of EAO and President of the Swedish Society of Periodontology and Dental Implants.

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> Nikolaos DONOS
Professor Nikos Donos DDS, MS, FHEA, FDSRCEngl., PhD is the Director of Research, Chair of the Division of Clinical Research and the Head & Chair of Periodontology at the UCL- Eastman Dental Institute, London. His research track record is focused on preclinical models and clinical trials in the field of GBR and implant dentistry as well as in the association of periodontal disease with other chronic diseases. He has published extensively and he is a member of the editorial board of the leading peer-reviewed journals.

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Soft tissue engineering - how far have we come?

In the field of tissue engineering/regenerative medicine most investigators focus on the area of hard tissue, bone and/or cartilage, regeneration. In this presentation we will, instead, talk about some of the basic principles of soft tissue engineering in craniomaxillofacial surgery. We will discuss the use of scaffolds, cells and growth factors. We will (1) use as an illustration the fabrication of a human tissue engineered oral mucosa suitable for intraoral grafting, (2) show results from our Phase I clinical trial, (3) discuss the role of epithelial stem cells in tissue regeneration and their identification and isolation from oral mucosa and (4) present preliminary data on the manufacture of muco-cutaneous constructs that could be used to form human lips for facial reconstruction.
> Carlo MAIORANA
Professor of Oral Surgery and Head Dept of Implantology at Dental School University of Milan.
Vice President European Society for Oral laser Applications
Member, EAO Board of Directors
Speaker in international Meetings in Europe and United States, Author of more than 200 papers in Italian and international journals
Author of five textbooks on oral surgery and advanced osseointegration
Practice limited to oral surgery, advanced osseointegration and atrophic jaws reconstruction.

> Giovanni ZUCCHELLI
Doctor in Dentistry
Professor of Periodontology Bologna University
PhD in Medical Biotechnology applied to Dentistry
Active member of Italian Society of Periodontology and European Federation of Periodontology
Member of the Editorial Board of the European Journal of Aesthetic Dentistry
Winner of scientific prizes for the research in periodontology in Europe and USA
Authors of 100 scientific publications in the fields of Periodontology and two atlas text book on soft tissue plastic surgery

The application of periodontal soft tissue surgery techniques to peri-implant defects
The recession of the buccal soft tissue margin is a frequent complication of well integrated dental implants. The appearance of metallic structure or even their transparency through the thin buccal soft tissues are the most common reasons for patient aesthetic complaints. Soft tissue plastic surgical procedures and bilaminar techniques in particular, can be successfully used to treat buccal gingival recessions around dental implants and to increase the thickness of buccal soft tissue before implant installation.

> Michael STILLER
Status of academic appointment: Assistant Professor and assistant medical director
Department of oral surgery and radiology clinic of maxillofacial surgery
College of medicine
Campus Benjamin Franklin
Charite Berlin
I. Personal data
Born on September 4th in 1961 in Brandenburg (Germany)
II. Education
1993 License as a general practitioner
1993 Licence as a specialist in oral and maxillofacial surgery
1993 Doctor’s degree in general medicine
since 1994 Assistant medical director at the clinic and out-patient department for Dentistry and Oral Surgery of Charite Berlin
since 1994 Lectures and courses in implantology with special regards to hard and soft tissue regeneration in implantology and conventional prosthetics
2001 Habilitation
since 2002 Private dental clinic specialised in implant dentistry
since 2004 Research work, animal studies with special regards in resorbable biomaterials
Research work in
Different techniques of bone transplantation
Implantology in compromised situations
Soft tissue regeneration in implantology
Osseointegration and resorption of TCP
Immunohistologic examinations of TCP
Value of synchrotron tomography in bone evaluation
Oral manifestations of autoimmune diseases
Papers in
Sjögrens syndrome in childhood and adulthood
Soft tissue surgery in implantology
Implant treatment of patients with xerostomia
Functional and aesthetic soft tissue surgery in compromised cases
TCP and bone regeneration
Peri-implant recession defect management
Contrary to the positive results in dental implantology the surgical and prosthetic treatment of functionally and aesthetically impaired implants has only been marginally discussed in literature. Corrections of impaired implants in the upper anterior region face compared with the impaired implants in the upper and lower lateral region constitute more difficulties and surgeon’s challenge.
Besides the frequent necessity of osseous augmentation the mucogingival complex needs to be harmonised or respectively reconstructed in most cases. There is often a lack of keratinised gingiva, disturbing cicatrice tracks, discolourations of the gingival and recessions. Quite frequently the mucogingival appearance is also unsatisfactory due to preceding operations and attempted plastic coverages.
The first aim of the presentation will be to describe the successful treatment of aesthetically and functionally impaired implants in the upper anterior region. The possibilities of hard and soft tissue transplantation techniques will be discussed in detail depending on the soft and hard tissue defect morphology and the hard and soft tissue biotype. The second aim of the presentation will be to describe tissue changes at implant recessions in cases where the aesthetic challenge is not the centre of attention. This concept is of primary importance for the reduction of peri-implantitis in cases where implant recessions have occurred and a progression of peri-implant bone loss is observed.

SATURDAY AFTERNOON
Visit Wiley-Blackwell’s booth at the European Association for Osseointegration’s 19th Annual Scientific Meeting

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> About the EAO

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

**History**
The EAO was founded in Munich in 1991 following the recommendations made by an international group of clinicians and research workers. It was formed as an international, interdisciplinary and independent science-based forum for all professionals interested in the art and science of osseointegration.

**Mission**
The objectives of the Association are:
1. To promote and facilitate clinical applications of osseointegration for the benefit of patients throughout the world.
2. To promote the advancement of methods of treatment in reconstructive surgery and prosthetic rehabilitation based on the principles of osseointegration and related disciplines.
3. To promote and initiate research into improved clinical procedures for rehabilitation as a consequence of osseointegration.
4. To promote international exchange of knowledge and understanding of the techniques and research in the field of osseointegration and related disciplines.
5. To promote the publication of research findings and other materials as part of continuing education for the benefit of members and interested organisations.

**Membership**
93% of our members at the congress in Zurich (2006) said they would recommend the EAO to a colleague. Join the EAO now and benefit from a substantially reduced registration fee for the Annual Congress! In addition you will enjoy other membership benefits such as a free online subscription to the monthly Clinical Oral Implants Research journal (Blackwell, 12 issues per year), a 74% reduction to the hard copy subscription of COIR, a 35% reduction for online & hard copy subscriptions to a selection of 5 other journals (Clinical Implant Dentistry and Related Research, Journal of Clinical Periodontology, Journal of Aesthetic and Restorative Dentistry, Journal of Oral Rehabilitation, and Oral Surgery), the EAO Newsletter twice a year, a membership directory containing the names and addresses of all members, a personal EAO pin, and a wide network of colleagues and leading innovators from around the world.

For more information on membership, please contact:
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Fax +32 (0)2 645 26 71
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Glasgow

Glasgow is a vibrant, modern city with huge amounts to offer visitors. It is Scotland’s cultural capital and combines excellent theatre and shopping with world-class museums, along with easy access to beautiful Scottish countryside.

What’s more, Glasgow is one of the UK’s best-preserved Victorian cities and magnificent period architecture can be seen alongside contemporary urban design. The city’s fine architecture is complemented by cutting-edge style bars and world-class restaurants offering contemporary and traditional cuisine.

Glasgow is going through a long-term transformation that is evident along the revitalised River Clyde. The city boasts world-famous art collections, the best shopping in the UK outside London, and the most vibrant and exciting nightlife in Scotland. This international and multicultural city is particularly well-known for its friendly and welcoming people.

Facts and figures

Economy: Glasgow has the largest economy in Scotland and is at the hub of the metropolitan area of west central Scotland. The city sustains more than 410,000 jobs in over 12,000 companies.


Famous Glaswegians:
Alasdair Gray (author)
Sir Alex Ferguson (footballer)
Robbie Coltrane (actor)
Robert Carlyle (actor)
Sir William Burrell (industrialist and philanthropist)
Mark Knopfler (guitarist, Dire Straits)
Billy Connolly (actor and comedian)
Charles Rennie Mackintosh (architect)
Travis (musicians)
In addition to the sights and splendours of Glasgow itself, there are a range of attractions within a short distance of the city. Here are some suggestions, all of which can be reached in around an hour.

12. Walk or cycle round picturesque Loch Katrine
13. Play a round of golf at Turnberry, host to the Open Championship
14. Visit the historic Glengoyne whisky distillery
15. Enjoy afternoon tea or a round of golf in the five-star luxury of Gleneagles Hotel
16. Explore Loch Lomond & The Trossachs National Park
17. Visit the royal borough of Linlithgow and its palace
18. Take a ride in a canal boat on the Falkirk Wheel
19. Visit the city of Stirling and its impressive castle
> Congress General Information

- **Date**
  From Wednesday 6th, October to Saturday 9th, October 2010

- **Venue**
  The EAO congress 2010 will be held at the SECC Glasgow: Finnieston Quay, Glasgow, G3 8HN, United Kingdom

- **Official language**
  The official language of the EAO Congress is English. There will be simultaneous translation into French, German, Spanish and Italian during plenary session.

- **Headphones**
  Simultaneous translation in French, German, Spanish and Italian will be available for plenary session. In the delegate pack, you will find a voucher which will allow you to borrow conference headphones from the desk located at the registration area in hall 5.

- **Welcome desk opening hours**
  Wednesday 6th  11.00-18.00
  Thursday 7th  09.00-18.00
  Friday 8th  07.30-18.00
  Saturday 9th  07.30-16.00

  The welcome desk is situated in the exhibition area, hall 5. You will be able to register on site and collect your access badges from here.

- **Exhibition opening hours**
  Thursday 7th  09.00-18.00
  Friday 8th  09.00-18.00
  Saturday 9th  09.00-16.00

- **Registration fee for delegates include:**
  Admission to all congress sessions, poster area and technical exhibition
  The opening ceremony
  Congress documents (programme, abstracts book, congress bag)
  Lunch and refreshments during coffee breaks

- **Terms of payment:**
  By credit card (Visa, Euro or Master card), cash or cheque in €.

- **ON SITE registration fees**
  All the prices below include UK VAT (17.5%)
  EAO members + ADI* + BSOI** + BSSPD*** 580 €
  Non members 750 €
  Medical/Dental Student**** 330 €

* Association of Dental Implantology UK
** British Society of Oral Implantology
*** British Society for the Study of Prosthetic Dentistry
**** Upon presentation of a valid student ID

- **Certificate of attendance**
  A certificate of attendance for preregistered participants will be issued along with the Congress documentation upon arrival. Participants who register on-site will be issued their certificate at the registration desk.

- **Cloakroom**
  Wednesday 6th  11.00-18.00
  Thursday 7th  09.00-19.00
  Friday 8th  07.30-19.00
  Saturday 9th  07.30-16.00

  Please be advised that the organisation is not responsible for any lost or damaged items.

> A welcome reception hosted by the city of Glasgow will be held at the world famous Kalvingrove Museum on Wednesday 6th October 2010 from 6.30 pm to 8.00 pm.

The event will be accompanied by music from Scotland. It will be a great opportunity to network with colleagues. Please note: this event will take place on the day before the Congress opens.
**Refreshments**
Lunch and coffee breaks will be served to all registered delegates in the exhibition area and in the posters area.

**Staff**
Staff members can be identified by their pink T-shirts. They will be happy to assist you with any queries you may have.

**Web corner and Wi-Fi**
An internet café is located in hall 5 (exhibition area). Computer stations will be at your disposal for accessing the internet and checking e-mails.

**Useful links**
- Venue: [http://www.secc.co.uk/](http://www.secc.co.uk/)
- Glasgow public transport: [http://www.spt.co.uk/index.aspx](http://www.spt.co.uk/index.aspx)
- Airport car rentals: [http://www.avis.co.uk](http://www.avis.co.uk), [http://www.hertz.co.uk](http://www.hertz.co.uk)

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> Exhibition Plan

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Athens

Main entrance

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Straumann is a global leader in implant and restorative dentistry and oral tissue regeneration. 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), an independent international network of eminent clinicians and researchers from leading clinics, research institutes and universities around the world. Straumann products and services are available in more than 70 countries.

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BTI Biotechnology Institute (established in 1998, with its headquarters in Vitoria, Spain) designs, ma-
munufactures and distributes the BTI Dental Implant System: a system of titanium dental implants for oral surgery including surgical and prostheti-
ce elements. BTI has developed and commercialised as well the PRF (Platelet Rich Plasma) system (Endogenous Regenerative Therapy) System: a bone and tissue regeneration system based on the growth factors in human blood's platelets. BTI is one of the main researchers in the world in plas-
matic growth factors' area, and gives lectures in training courses, workshops and conferences all around the world.

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MIS IMPLANTS TECHNOLOGIES LTD

MIS was established in 1995. Two years later, close research and development links were forged with the universities of Tel Aviv and Jeru-
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**ARTROSS GMBH**

ARTROSS GmbH develops produces and markets unique synthetic bone grafting materials on the basis of the Nanobone Technology. The company combines scientific background and co-operates with more than 20 universities worldwide. More than 100.000 patients have been treated in the last 5 years with the Nanobone Technology. Nanobone is used in the field of oral surgery, especially in dental implantology.

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**AVINENT IMPLANT SYSTEM**

AVINENT has entered the international dental implantology sector with an innovative new product. The system created by AVINENT is the fruit of intense labour in the fields of technological research and development and after years of investigation along with expert knowledge of odontology, bio-technology and material engineering, is fully able to provide answers to the needs of the dental sector. AVINENT IMPANT SYSTEM has a product catalogue containing over 700 entries created to facilitate the work of implantologists and providing a solution to all kind of clinical cases. The main advantage is a perfect design, great self-tapping capacity and advanced geometry.

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**BEGO IMPLANT SYSTEMS**

Bremen-based BEGO Implant Systems GmbH & Co. KG is a thriving, growth-oriented company in the dental implant industry. The company has been developing and manufacturing dental implants and accessories for implant-based treatment of patients around the world since 1999. Dental implants «Made by BEGO» are top-quality German products, at a fair price, which offer the perfect combination of safety, durability, aesthetics and reliability. BEGO Implant Systems GmbH & Co. KG has patented many of its developments.

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**BICO DENTAL IMPLANTS**

The Bicon Design is driven by simplicity. A cornerstone of its simplicity is SHORT™ implants. When the Bicon system was first introduced in 1983, 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, 7.5mm, and 8.0mm SHORT™ implants, all with proven clinical success.

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**BREDENT GROUP**

Bredent GmbH & Co.KG, a company with more than 35 years of experience in the development and production of innovative products and applications in the fields of dentistry and dental technology, has acquired outstanding reputation worldwide by offering high-quality products and holds a leading position in the international dental market. In April 2006 Bredent’s business activities in the sector of dental practice and dentistry including the product sectors of implantology, instruments and consumables were combined in a new company: Bredent medical GmbH & Co.KG.

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**CONSULT-PRO / DHC MARKETING INC.**

Consult-Pro is a software company specialising in 3D Animated Dental Education and total practice solutions. Software pioneers in Dental Education, Consult-Pro have been creating amazing 3D animated dental videos in the world. With Single, Network and Web Based Enterprise system, Consult-Pro combines emerging dental techniques and emerging computer technology. For the benefit of the Patient, the Dentist and the Dental Institution.

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**DENTIUM Co., LTD**

Since the establishment of Dentium Co., Ltd. in Korea in 2009, we have been manufacturing high-quality dental implant and Lab products including surgical motor. In collaboration with leading clinics, research institutes, and universities, the Den- tium R&D center has developed a series of state-of-the-art dental implant and lab systems including surgical motors focusing on efficiency. Our system assists our customers in performing quick, accurate and aesthetic dental implantation.

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**HUI-FRIEDY**

Hu-Friedy is the world’s leading manufacturer of hand-held dental instruments. Hu-Friedy Europe is headquartered in the Netherlands. Through a network of dental dealers, the company has been offering quality products to dental professionals in Western Europe and the Middle East since 1991. Hu-Friedy is a company like no other. Its products are a concept like no other: the dental instruments we produce are a critical extension of each practitioner’s skill.

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Web site: www.hu-friedy.eu

**IMPLANT DIRECT**

Implant Direct, Europe’s No. 1 Online Provider for Dental Implants, sets new standards with high-quality implants with factory-direct prices and value added All-in-One™ packaging for only 115 Euros per implant, including the corresponding prosthetic components. The company builds on its 28 years experience through the patent based innovations of Dr. Gerald Niznick, one of the leading implant pioneers in Implant Dentistry. Besides the unique Spectra System, Implant Direct offers also compatible implant systems to Nobel Biocare, Straumann and Zimmer Dental.

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**LUCINDA PEARSON**

Lucinda Pearson is a freelance writer and consultant offering writing services to the dental industry. She has written numerous articles, press releases, educational materials, case studies, and six books including the best-selling book, “Impact: How to Make a Difference in Dentistry.”

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**MARZELL**

Marzell Dental’s mission is to support the dental care provider in the delivery of quality dental care to the patient. The company’s in-house training and education programmes are delivered by the Dental Academy, through our in-house education centre and network of 14 Regional offices.

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**SPECTRA**

Spectra System, Implant Direct offers also compatible implant systems to Nobel Biocare, Straumann and Zimmer Dental.

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The company concentrates its activities on three areas: fixed and removable dental prosthetics, all-ceramic and implant aesthetics. Effective binding agents, high-tech LED-curing units, and efficient laboratory systems are the guarantors of the laboratory-based technologies. Mectron continues to develop new technologies and has been the first to ensure dark adaptation. This is the result of the development of the electronic distribution system. Depneuma is the first electronic laboratory distribution system and can be used in the processes of the laboratory or the laboratory distribution system. The constantly improving technology and the ever-increasing number of applications are the guarantors of the laboratory-based technologies.

MECTRON S.P.A
As the inventor and world leader of piezoelectric bone surgery, Mectron will present the 50th anniversary edition of the 3rd generation of its PiezoSurgery®. Over 50 different tips allow various clinical applications, including complete implant site preparation. Sinus PhysioLIFT and Mectron Bone Expanders are additional innovations offering clear clinical advantages in oral surgery. Other areas of Mectron’s competence since the last 30 years are LED curing lights, multifunctional ultrasonic scalers and airpolishers.

NEOBIOTECH CO., LTD.
NeoBiotech is the prior implant manufacturer which was established in 2000, and endeavored to provide the best product and service under motto of implant service No.1. NeoBiotech developed and launched SinusQuick guaranteeing excellent operation and the best product to upper posterior, while passing through the newborn process as an innovation and the best product to upper posterior, while passing through the newborn process as an innovation and the best product to upper posterior, while passing through the newborn process as an innovation. NeoBiotech is now preparing its future, developing 5 years of history focused to provide solutions with research and development of high technology as well as prompt realisation of marketing. NeoBiotech is now preparing its future, developing 5 years of history focused to provide solutions with research and development of high technology as well as prompt realisation of marketing. NeoBiotech is now preparing its future, developing 5 years of history focused to provide solutions with research and development of high technology as well as prompt realisation of marketing.

SATELEC ACTEON GROUP
Leader in electronic dental equipment and consumables (Satelec®, Pierre Rolland® and Sopro®), Satelec® (S12) in Glasgow & to presenting our products to present our products to present our products to present our products to present our products to prest...
DENTAL RATIO
DENTAL RATIO is active in implant dentistry and oral tissue regeneration.
Using many of the most advanced technologies and techniques, it manufactures micromechanical products at best prices to dental professionals.

- A company dedicated to training in implantology: Teknekona.
- A scientific and clinical credibility based on 18 years experience.
- The main assets of the company are:
  - An international dimension: represented in 21 countries through exclusive partners.
  - A complete line of dental implants meeting all the clinical needs.
  - A FDA approved - health Canada approval - Korea approval - China approval.
  - A scientific and clinical credibility based on 18 years experience.
  - A company dedicated to training in implantology: Teknekona.

ITI International Team for Implantology
The International Team for Implantology (ITI) is an independent academic organisation dedicated to advancing knowledge on all aspects of implant dentistry and related tissue regeneration based on scientific evidence. The ITI focuses on education and the development of well-documented treatment guidelines backed by extensive clinical testing and the compilation of long-term results. ITI Fellows and Members, who number more than 8,000 in total, regularly share their knowledge and expertise from research and clinical practise within the context of the organisation’s many activities. ITI membership is open to all professionals in implant dentistry who wish to participate in the ITI and abide by its principles.

E.M.S. ELECTRO MEDICAL SYSTEMS
We are perfectionists. Electro Medical Systems S.A. (EMS) was founded in 1981 in Switzerland’s Vallée de Joux. For more than 20 years this area north of Geneva has been an established centre of watch and precision instrument making. EMS’s world-wide range of dental precision equipment benefits from the expertise of a dedicated team of skilled and specialized employees. Their spirit of relentless innovation has resulted in unique brands and technologies, like the Original AirFLOW Method, the Piezon® Ultrasonic Technology and the Piezon Master Surgery. As a market leader EMS sets industry standards by developing micromechanical devices of unequalled quality and crafting with Swiss precision. This is the result of our constant drive to perfection.

HAGER & MEISINGER GMBH
HAGER & MEISINGER is, even after one hundred years of company history, an independent and in the fourth generation leading family business. The product line Bone Management offers the user a perfectly harmonized aligned system solution which provides a controlled optimum of the bone implant bed. Besides the prosthetic aspects, achieving a minimally invasive character of the surgical intervention and facilitating the implantation in complicated indications played an important role in the development process of this product line. Clearly structured and standardised procedures offer safe means to realise the implant care on patients.

MORITA - J. MORITA EUROPE GMBH
The Morita Group is one of the leading manufacturers of technical medical products. The traditional Japanese company has expanded its activities in Europe, USA Brazil, Australia and Africa and offers a wide range of products. As a leader in ray diagnostics and endodontics, the company’s product portfolio offers high-performance imaging systems up to 2D volumetric tomography, handling units, turbines, straight hand and contra-angle pieces, instruments and endodontic measurement and preparation systems. With outstanding quality standards and continuous research, Morita’s workforce of 2,400 employees is oriented towards the needs of users and doctors. This way, the world’s best of Morita can be utilized to improve the treatment of our patients for four generation and it is currently under the management of Haruo Morita.

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Osstell ISQ for dentists and surgeons. Experience around the world confirm the usefulness of over 240 studies and ten years of clinical experience. By detecting decreasing stability, Osstell ISQ allows to work with five different implant diameters with only one set of instruments and fewer prosthetic components. Osstell head office is located in the UK and we operate in Australia, Austria, Canada, Denmark, Finland, France, Germany, Iceland, Ireland, Italy, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, and the UK, and we operate in Australia, Austria, Germany, Iceland, Ireland, Switzerland, and the UK.

Osseous Technologies of America sells accessories for Implantology. We market unique, innovative, high precision swiss region.

Meta was founded in 1997 aiming at simplifying oral surgery and bone regeneration in dentistry. Our goal is to develop innovative and top quality devices for faster, easier and predictable surgical techniques. Meta manufactures safescraper and Micro-swell known leading devices for bone harvesting as well as SinCrest and Smart Lift, the innovative and minimally invasive techniques for maxillary sinus lift with crestal approach.

NSK FRANCE

Since it was established in 1930, NSK has provided a wide variety of products in the dental field, based on core ultra high-speed rotational technologies. Besides, NSK has expanded with general surgical instruments. NSK offers a large range of dental equipment for restoration and prosthodontics, endodontology, oral hygiene, surgery and bone regeneration in dentistry. Meta is manufacturer of the sinus lift balloons and sinus capsules. You can make your practice more efficient! We are the manufacturer of the sinus lift balloons and sinus capsules. Our goal is to develop innovative and top quality devices for faster, easier and predictable surgical techniques. Meta manufactures safescraper and Micro-swell known leading devices for bone harvesting as well as SinCrest and Smart Lift, the innovative and minimally invasive techniques for maxillary sinus lift with crestal approach.

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META

Medentis Medical GmbH

Manufacturer of the dental implant system ‘ICX-implant’. High Quality Implant System with a cone connection and internal hexagon. Made in Germany.

OSSEOUS TECHNOLOGIES OF AMERICA

For more than 20 years Omnia has been developing and producing sterile and non-sterile disposables thanks to our expertise 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 surgery and more complex maxillofacial surgery. Safety Line: a selection of non-sterile barriers and hygiene products for everyday use in dental office. Maxillair is a new innovative and complete office of surgical instruments specifically developed for implantology and maxillofacial surgery.

Mallifeer Instruments

“Custom-Designed Rotary Instruments for Implantology and Bone Surgery.” Mallefer is the World’s leading manufacturer of ODM instruments for surgical applications since 20 years. We are specialized in developing ODM products for our clients, including: twist drills, burrs, reamers, taps, trephines, craniotom, high-speed instruments, wire cutters, hand instruments, various other instruments and accessories. To remain at the leading edge of manufacturing technologies, Mallifeer also develops its own production equipment, and is considered to be one of the most important machine manufacturers in the high precision swiss region.

OSSEOUS TECHNOLOGIES OF AMERICA

For more than 20 years Omnia has been developing and producing sterile and non-sterile disposables thanks to our expertise 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 surgery and more complex maxillofacial surgery. Safety Line: a selection of non-sterile barriers and hygiene products for everyday use in dental office. Maxillair is a new innovative and complete office of surgical instruments specifically developed for implantology and maxillofacial surgery.
The Osteology Foundation aims to promote research in the field of dental surgery and implantology by fostering cooperation between universities and industry in the field of tissue regeneration with bone substitute materials, and maxillofacial surgery. The objective is to make new materials and products available that are based on the latest techniques and developments in the field. Osteology is a science that is more quickly and with greater goal orientation.

OLEXOLOGY FOUNDATION

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Shinhung co., Ltd, founded in 1955, is the biggest and only dental company dealing a full range of dental products in Korea. It manufactures a wide range of dental instruments, precious alloy, porcelain crowns and implant system in the compliance with ISO 13485 and other international quality standards. SHINHUNG CO., LTD

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SOUTHERN IMPLANTS

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Web site: www.southernimplants.com

Southern Implants was established in 1987 as a manufacturer and distributor of dental implants. The company is focused on the top-end specialist sector of the implant market. The product range is constantly being extended to incorporate the newest technologies and trends. Southern Implants is not only the leading implant company in Southern Africa, but is a significant role player in the USA, the UK, Europe and Australasia. Manufacturing plants are situated in Irene, South Africa and Irvine, California.

SOREDEX

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SOREDEX designs, develops, manufactures and markets dental imaging systems, with emphasis on innovative digital solutions. Operating worldwide, SOREDEX offers quality imaging systems of true diagnostic value, based on in-depth understanding of the dental practice. Applying three decades of experience in imaging excellence, we offer reliable and easy-to-use solutions that help you focus on patient care. SOREDEX digital imaging systems are innovative and accurate diagnostic tools that integrate seamlessly and easily into a dental practice, enhancing the imaging process and improving workflow. Our systems are designed to be simple and easy to use. SOREDEX stands for innovation and value in dental X-ray technology.

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An innovative, globally active company that develops, produces and distributes premium quality therapeutic biomaterials by the brand Osteobill®. 15 years of research led to a state-of-the-art production process that ensures neutralisation of antigenic components and achievement of biocompatibility while preserving the natural collagen matrix inside the biomaterial. A comprehensive literature portfolio provides an excellent scientific background while continuous investments in new research projects are constantly extending the existing knowledge on Osteobill® biomaterials - clinical performance. Osteobill® products comply with high quality standards such as ISO 10993, ISO 13485 (notified body TÜV Rheinland), EN 866-3 and EN 13815 (notified body ÉCO-TECH) Osteobill® - regeneration science, inspired by nature.

VITALOS PRODUITS DENTAIRES

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Present in over 100 countries on 5 continents, Pro- duits Dentaires S.A. has created, since 1949, an extensive distribution network of agents, wholesale dealers and dental agents. Thanks to our partners, “PD” brand products have gradually gained international reputations, synonymous with Swiss Quality as its best in endodontics, periodontics, restoration orthodontics, prosthetics, oral hygiene, prophylaxis and aesthetics.

Turning to the future for dental surgeons, PD has developed a unique product on the market, PD VitaSca® Calcium, which is a mineral bone regeneration cement designed for bone regeneration in dental surgery.
The family company W&H Dentalwerk, which is based in Bürmoos, is one of the leading providers of precision dental devices in the world. Innovative product and service solutions, a modern corporate structure, a strong focus on research and development, a sense of social responsibility and a modern market player at local and international level. W&H has approximately 980 employees throughout the world (around 645 of which are at the headquarters in Bürmoos) and exports its products to more than 90 countries. The family company operates two production sites in Bürmoos (Austria), one in Bruzaporto (Italy) and 15 sales subsidiaries in Europe, Asia and North America.

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Z-SYSTEMS AG
The Z-Systems AG is specialised in metal free ceramics implants. The two Zirconia implant systems « Z-Look3 » and « Z-Look3 EVO » use a special Zirconia, the ZrO2-TZP-A-Bio HIP. This bioeramic provides the implants with special strength, especially with the Hot Isostatic Post-compaction production process (HIP). Z-Look3 implants are CE and FDA approved and have more than 5 years clinical experience. Worldwide are more than 15,000 Z-Look3 implants placed. Now you and your patients have the choice GREY or WHITE!

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