International Academy of Ceramic Implantology

WINTER CONGRESS

MIAMI

JANUARY 24 AND 25, 2014

IAOC

INTERNATIONAL ACADEMY OF
CERAMIC IMPLANTOLOGY

- International Symposium
- Surgical Challenges and Techniques with One-piece Zirconia Implants
- Restorative Materials for Zirconia Implants
- Innovative Surgical Protocols
- Osseointegration of Zirconia versus Titanium Implants
- Assessing Zirconia Implant Integration Non-invasively
- Bacteriology Around Zirconia Implants versus Titanium Implants
- Innovations in Ceramic Implantology: Two-piece Zirconia Implants
- Limited Attendance Lectures
- Zirconia as a Dental Implant Material
- Immunology: Hypersensitivity to Dental and Orthopedic Metal Implants
- Ceramic Restorative Materials and Options for Zirconia Implants
- Treatment Planning
- Nutrition and Bone Healing
- Social Events
- Commercial Exhibits
- Implementing and Marketing Ceramic Implants … and more

MAIN PODIUM SPEAKERS

Dr. Stephen Evans
General Practitioner
Private Practice
Bullard, Texas

Dr. Dan Hagi
Private Practice Specializing in Metal Free Oral Rehabilitation
Thornhill, Ontario

Dr. Noriaki Honma
Oral and Maxillofacial Surgeon
Private Practice
Tokyo, Japan

Dr. Ralf Luettmann
Private Practice Limited to Metal Free Dentistry
Hamburg, Germany

Dr. Andrea Mombelli
Periodontist, Professor and Chair University of Geneva School of Dental Medicine
Geneva, Switzerland

Dr. Sammy Noumbissi
Private Practice Limited to Oral Implantology
Silver Spring, Maryland
Adjunct Professor of Dental Implantology, Wichita State University

Dr. Josep Oliva
Periodontist, Private Practice, Professor of Periodontics and Implantology
University of Barcelona School of Dental Medicine, Granollers, Spain

Dr. Xavi Oliva
General Practitioner and Orthodontics, Private Practice
CeraRoot Zirconia Implant, Granollers, Spain

Dr. Elisabeth Valentine-Thon, PhD
Researcher, Metal sensitivity & Titanium allergy testing expert, Health Diagnostics and Research Institute, New Jersey, USA

Dr. Judson Wall
General Practitioner, Private Practice
Bountiful, Utah

BREAKOUT SESSIONS

Mr. Taylor Hunter
Aurum Ceramics
Dental Laboratory
Las Vegas, Nevada

Mr. Jared Young
Dental Marketing Expert and Private Practice Owner
Bend, Oregon

International Academy of Ceramic Implantology
WINTER CONGRESS
MIAMI
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FRIDAY, JANUARY 24
8:00 am to 12:00 pm →

Dr. Elisabeth Valentine-Thon, PhD
Topic: Hypersensitivity to Dental and Orthopedic Implants – Diagnostic Options and Clinical Relevance.

Health Diagnostics and Research Institute, New Jersey, Metal sensitivity & Titanium allergy testing expert

BIO: Elizabeth Valentine-Thon, PhD, is the General Manager of Health Diagnostics and Research Institute in New Jersey. Her research work has spanned the fields of immunology, virology, molecular biology, environmental medicine, and infectious disease diagnostics in both Europe and the USA, with a current focus on Lyme disease and clinically-relevant metal allergy. She is a member of EUROPAEM, AAEM, ASM, and ILADS. She has published over 60 peer-reviewed scientific articles.

ABSTRACT: All implanted metals corrode when in contact with biological fluids, releasing metal ions into the peri-implant tissue and thereby stimulating the immune system to trigger toxic, inflammatory, or allergic reactions with both local and systemic manifestations. Hypersensitivity to such metals, including Ni, Cr, Co, Hg, Au, Pd, and Ti, has been implicated in eczema, dermatitis, joint pain, joint loosening and implant failure, burning mouth syndrome, intemstent restenosis, CFS, fibromyalgia, multiple sclerosis, yellow-nail syndrome, and other immune dysfunctions. While the gold standard for metal allergy testing is patch testing, the in vitro lymphocyte transformation test (LTT), which detects metal-specific memory T cells in peripheral blood, is proving to be a clinically-relevant alternative. Testing patients prior to or post-implantation can identify high-risk patients, aid in the selection of an optimally compatible implant material, and facilitate effective treatment, i.e. removal or replacement of the offending metal. This presentation will review the problem of metal allergy in dental and orthopedic implantology and demonstrate the beneficial effect of this approach.

LEARNING OBJECTIVES:
• To understand the basic mechanism of a metal allergy
• To recognize the role of metal allergy in the etiology of certain diseases and morbidities
• To become aware of the risk for patients receiving metal implants to develop an immunological hypersensitivity to the implant components (metals)
• To appreciate the difference between in vivo patch testing and in vitro memory T cell-based assays for detecting metal allergies
• To learn how to screen patients for a possible metal allergy prior to implantation as well as post-implantation in affected individuals
• To improve patient management due to all of the above.

Dr. Andrea Mombelli
Topic: Osseointegration and Soft Tissue Health of Zirconia Dental Implants.

University of Geneva, School of Dental Medicine Professor and Chair, Division of Oral Physiopathology and Periodontology

BIO: Andrea Mombelli is Professor and Chair, Division of Periodontology and Oral Physiopathology and director of the post-graduate program in periodontology at the University of Geneva, Switzerland. He was president of the Dental Section of the Faculty of Medicine at the University of Geneva (2001-2005) and associate vice-dean of the Faculty of Medicine (2005-2011), and is former president of the Swiss Society of Periodontology (1992-1996 and 2004-2008). He and his colleagues have been pioneers in studies on the diagnosis, etiology and therapy of peri-implantitis. Currently they are involved in clinical trials evaluating new antimicrobial protocols to optimize the treatment of periodontal and peri-implant infections.

ABSTRACT: Zirconia ceramics have been proposed as an alternative to titanium implant material. The availability of a non-metal alternative with similar or better properties may be advantageous for biologic, esthetic and prosthodontic reasons. Cell culture and animal studies have shown favorable biological reactions to zirconia and have proven that osseointegration can be achieved. So far the clinical documentation of outcomes has been limited to one-piece implants in small numbers of cases. We currently evaluate the efficacy and safety of a two-piece zirconia implant system (ZERAMEX®) in a prospective study. We also evaluate the biological reactions of the peri-implant tissues and patient satisfaction. Cases will be presented showing the utilization of these implants in the context of a comprehensive treatment plan, and outcomes up to three years will be shown.

LEARNING OBJECTIVE:
The purpose of this lecture is to present the ZERAMEX® two-piece zirconia implant system, to explain the clinical procedures and demonstrate outcomes up to three years.

Dr. Dan Hagi, DDS
Topic: Two-piece Zirconia Implants Supporting All-ceramic Crowns. Rationale, Procedures and Results from a Prospective Clinical Trial.

Metal Free Oral Rehabilitation, Thornhill, Ontario

BIO: Dr. Hagi is a graduate of the University of Toronto Faculty of Dentistry and has been practicing in Thornhill, Ontario with a focus on aesthetically driven metal-free oral rehabilitation. Dr. Hagi was trained by the Misch International Implant Institute in both prosthetic and surgical implantology. He is a Fellow of the ICOI and an associate Fellow of the AAID. A published author and lecturer on ceramics in dentistry, specifically ideal tooth replacement utilizing CeraRoot dental implants.
ABSTRACT: Zirconia implants are a proven non-metal alternative to titanium, with biological and esthetic advantages. An added benefit of zirconia is improved gingival health following rehabilitation. Dental implant design characteristics that contribute to histological and histomorphometric healing of zirconia implants will be described. The surface topography, chemical and electrical properties that make this material ideal for ideal soft tissue health will be described.

LEARNING OBJECTIVES:
• Understand dental implant design characteristics that lead to positive clinical outcomes.
• Understand the literature that supports the osseointegration of Zirconia.
• Describe the histological healing of Zirconia in hard and soft tissue.
• Understand the differences in tissue reaction to Zirconia and Titanium.

1:00 pm to 5:00 pm

Dr. Sammy Noumbissi
Topic: Non-destructive and predictable evaluation of the Osseointegration of Zirconia Dental Implants

Wichita State University, Professor of Dental implantology, Private Practice Silver Spring, USA

BIO: Dr. Sammy Noumbissi obtained his Doctorate in Dentistry from Howard University College of Dentistry in Washington DC. After obtaining his DDS, he went to study Dental Implantology at Loma Linda University Advanced Education Program in Implant Dentistry. He earned a certificate in Oral Implantology and a Master of Science degree in Implant Surgery. He is a published author, a member of the editorial board of the Journal of Implant and Advanced Clinical Dentistry and reviewer for the Journal of Oral Implantology. Dr. Noumbissi lectures nationally and internationally, he is the current president of the International Academy of Ceramic Implantology.

ABSTRACT: In order to transition dental implants to a functional mode, successful osseointegration is a prerequisite and needs to be evaluated and confirmed. Different implant designs, surface characteristics and host site conditions may influence the amount and quality of bone/implant interface. Dental implants at the time of placement are stable solely because of mechanical stability; there is almost always an initial decrease in implant stability followed by a gradual increase as the implants osseointegrate and become biologically stable. Over time the implant stability which is a combination of mechanical and biological stability increases to a point where it’s safe for them to be loaded. Many non-invasive implant assessment stability methods and tools have been proposed and studied and continuous monitoring is the best way to evaluate the osseointegration process. Due to ethical and practical issues, implant stability assessment should be done in a safe, non-destructive, objective and quantitative manner. Objective and quantitative measurement of implant stability not only facilitates good communication between surgeon and restorative dentist but also improves case documentation.

LEARNING OBJECTIVES:
• Synergy of mechanical and biological stability in functional implant success
• Understand the technology and philosophy behind assessing dampening capacity
• Learn how to interpret readings obtained during dampening assessment
• How much stability is enough to restore one-piece zirconia implants
• How to alter restorative options according to implant stability values
guidance of Prof. Branemark in Gothenborg, Sweden. Since 1992 Dr. Luettmann has been a partner of L Dental Clinic for metal free dentistry. His focus is on bioesthetic holistic dentistry, periodontology, CMD and orthodontics. His experience with ceramic implants started in 1998 under the tutelage of Prof. Sami Sandhaus in Lausanne, Switzerland and Dr. Ernst Thomke Head of R&D Z-Systems AG, Switzerland. Dr. Luettmann is an international speaker on metalfree dentistry and ceramic implantology. He is a member of the following organizations: ICCMO, DGZI, ICI, DGZMK and GZM.

ABSTRACT: Osseointegration being an accepted and well documented concept, for some time now attention has been directed towards achieving bioesthetic success, simplifying surgical protocols, immediate placement and loading of implants to reduce the restoration time. With modern implant designs and high tech ceramic implant surfaces a paradigm shift from conventional two piece metal implants and two stage implantology to unibody single stage ceramic implantology is already on the horizon.

LEARNING OBJECTIVES:
• Advantages and disadvantages of the one piece ceramic implant design as well as some of the parameters which are required for its selection.
• Understand when to use the two piece ceramic implant design.
• Understand application of technique to render treatment more straightforward, achieving better outcomes with less invasive procedures, making treatment available to more patients.
• Understand dynamic inter-relationship of implant design and treatment strategies.

SATURDAY, JANUARY 25

8:00 am to 12:00 pm →

Dr. Ralf Luettmann

Private Practice Hamburg, Germany

ABSTRACT: Zirconium dioxide has been the material of choice for long-lasting chirurgical implants for decades and the first material to be investigated for dental implants. This is because of its specific characteristics of biocompatibility, immunological and galvanic inertia. Yet, it took more than a decade to overcome the limitations of bioceramic production technology and gain insights into the material specific protocols to achieve industry leading levels of implant success. In this session, we will discuss the criteria to make early loading of zirconia implants predictable, covering clinical and technical limitations. A protocol involving key technologies of digital dentistry like CBCT is proposed to make early loading of zirconia implants safe and predictable.

LEARNING OBJECTIVES:
• Case selection for immediate implant placement and immediate loading.

1:00 pm to 5:00 pm →

Dr. Stephen Evans
Topic: Biological Regeneration with Autologous Fibrin Membranes and Growth Factors.

Private Practice, Bullard Texas USA

BIO: Dr. Evans has enjoyed 27 Years of general family dental practice and advanced reconstructive dentistry experience. Described by his patients and colleagues as personable, kind, gentle, and artistic as
Mr. Taylor Hunter

**Topic:** Zirconia, The all Ceramic Foundation for Comprehensive Esthetic and Implant Dentistry

**BIO:** Taylor Hunter is the C&B/CAD Department Manager at Aurum Ceramic, Las Vegas, which exists at CAPE, Center for Professional Education, and is the home of LVI. Having achieved his Diploma in Dental Technology in 2003, he began his career with Aurum Ceramic, Las Vegas providing diagnostic and fixed restorative case design, fabrication and management. Taylor has been instrumental in supporting the specialized business model for this location, which is to provide all ceramic solutions for Comprehensive Esthetic and Implant Dentistry. On a daily basis, Taylor is in direct communication with Dentists about full arch, full mouth and implant cases. He is also directly involved with the live patient treatment programs for fixed restorative and implant dentistry.

**ABSTRACT:** Taylor's presentation will from a dental laboratory technician's perspective show comprehensive and implant cases utilizing Zirconia for a number of different situations. Different ceramic materials and their applications to specific prosthetic situations will be presented and discussed.

**LEARNING OBJECTIVES:**

1. For comprehensive, all-ceramic cases, to show how zirconia can be used.
2. For comprehensive, all-ceramic cases, to show how esthetic zirconia can look.
3. For basic and comprehensive implant cases, to show how zirconia can be used and to show it's esthetic characteristics.
4. To show that, without zirconia, the above mentioned could not be accomplished from an all-ceramic perspective, considering today's dental materials.

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**Mr. Jared E. Young**

**Topic:** How to Make an Extra $100,000 a Year — or More — with Ceramic Dental Implants

**BIO:** Jared works with clients in the dental industry from around the world, helping them grow their practice by placing an emphasis on cost-effective marketing and sales techniques within the practice and getting staff on board to make it easier for the dentist. Jared delivers conferences around the world on dental marketing. His talks provide actionable steps that dentists and their staff can take immediately to get big results on a small budget.

**ABSTRACT:** Discover the secrets to making zirconia dental implants profitable for you and your practice. You have the system, the expertise, and the knowledge to place zirconia implants … now you just need to get patients begging to have you place them. This course will give you the action steps you need to make it happen.

Like Invisalign, CEREC, and Titanium Implants in the past decades, ceramic implants are the “next big thing” in dentistry — and this is your opportunity to capitalize and be an industry leader.

It’s not enough to simply place ceramic implants — you have to turn them into a profit center for your practice. In this valuable presentation you will discover the financial benefits of placing ceramic implants, how to sell them to your patients, and how to use them as a lead generator in your practice to bring in some of the best and most profitable patients you will ever have.
LODGING/LOCATION:
Crowne Plaza
Hollywood Beach
4000 S. Ocean Drive
Hollywood, Florida 33019
954.454.4334
www.cphollywoodbeach.com
For room reservation and preferred Winter Congress rates please click here and use code INT.

CANCELLATIONS AND CHANGES:
Full refunds may be granted only if notification is received no later than December 15, 2013. Cancellation after this time will result in a $350 processing fee. We cannot assume responsibility for losses due to participant travel arrangements.

ACCREDITATION:
Miles of Smiles Institute is an Academy of General Dentistry Approved PACE Program Provider FAGD/MAGD Credit. Approval does not imply acceptance by a state or provincial board of dentistry or AGD endorsement. 5/1/13 to 4/30/15 Provider #352916

REGISTRATION:
This is a two-day course, 16 CE (continued education) credits will be awarded and full tuition for both days is $699. International Academy of Ceramic Implantology Members (IAOCI) save $100.

NAME ______________________________________________________________
ADDRESS ____________________________________________________________
__________________________________________________________________
CITY _______________________STATE__________________ ZIP _______________
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EMAIL _______________________________________________________________

Please check one:
☐ Full Tuition: $699.00
☐ IAOCI Member: $599.00
☐ First-time IAOCI Members: $399.00 (Must sign up by 11/30/2013)
☐ On-Site Registration: $799.00

Payment Method:
Check       MasterCard         Visa
CREDIT CARD # ___________________________________________________________
EXP. DATE ______________________________________________________________
SIGNATURE _____________________________________________________________

Fax the registration form to 301-588-0873
Email the registration form to ronetta@milesofsmilesdental.net
Or call Ronetta Jones at 301-588-0768 to register

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REGISTRATION FORM: