IAOCI

INTERNATIONAL ACADEMY OF
CERAMIC IMPLANTOLOGY

10TH IAOCI WORLD CONGRESS

CERAMIC IMPLANTOLOGY: PAST, PRESENT AND FUTURE

August 19-21, 2021

Paris Las Vegas Resort &
Casino Las Vegas, Nevada

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Dear Friends, Colleagues and Members:

I would like first, to thank you for your continued support of the IAOCI even during this very unique and difficult year we've just completed. We are looking forward to 2021 and we all hope that it will be a better year. The IAOCI, from its inception 10 years ago, has been the worldwide leader in ceramic Implantology and we are proud to say that we continue to forge forward as we march toward our tenth anniversary congress. The academy started with three members including it's founder and over the years pretty much single handedly brought metal free implantology to the forefront and contributed greatly to make it a relevant and fast growing alternative in implant dentistry.

In 2020 despite the challenges in lieu of our quarterly events, we organized and hosted the first ever virtual ceramic implant event which was very successful and well attended by members and followers across four continents and over 20 countries.

Our 10th Anniversary Congress will take place in Las Vegas, NV August 19-21, 2021. This is a slight alteration from our original date due to the Covid-19 pandemic. We feel this will offer a better chance for a fully attended event. As you know our membership and attendees come from all continents and for the past nine years we have showcased the world's foremost experts in ceramic implantology. Today the IAOCI World Congress is looked upon as the hallmark event in the world for any dentist seeking to learn about or get more information and training on ceramic implants.

The theme for this milestone event is *"Ceramic Implantology: Past, Present and Future"* and as we have in the past we will have programs that will promote and showcase innovative and forward-thinking ideas through workshops, lectures and symposia that enhance the understanding of and the rationale for ceramic implants.

As many of you are aware the majority of the patient demographic who are seeking ceramic implants tend to be very health and wellcare oriented. Therefore they expect their dentist to be familiar with forward thinking and minimally invasive treatment modalities, but also understand and implement biological and holistic concepts in their practice of medicine and dentistry. In response to that, we will have for the first time a half day workshop focused on helping non-biological/holistic dentists understand better how to treat this rapidly growing demographic and be competent and confident at presentation and planning ceramic implants. *"Holistic Dentistry for the Non-holistic Dentist."*

I, and all the academy officers, look forward to being able to reconvene and reconnect in person in Las Vegas, August 19-21, 2021 at the Paris Hotel.

Warmest regards,

Dr. Sammy Noumbissi
President

Paris Las Vegas, 3655 Las Vegas Blvd. South, Las Vegas, NV 89109
Reserve your room online using this link:
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COURSE DESCRIPTIONS

Susan Wingrove, BS, RDH

Long-Term Prevention of Peri-Implant Complications: Ceramic and Titanium Implants

Course Description:
To prevent peri-implant complications, professional in-office assessment, maintenance, and home-care recommendations are vital. For long-term success clinicians need research-based protocols to detect early signs of implant complications, diagnose these complications to provide early intervention and be able to perform professional in-office maintenance. This course will follow the global healthy implant initiative for ceramic and titanium implants based on Susan's Clinical White Paper: Long-term prevention of peri-implant complications and textbook: Peri-Implant Therapy for the Dental Hygienist: Clinical Guide to Maintenance and Disease Complications.

Learning Objectives:
- Learn the current research for biofilm-focused protocols, tools, and treatments for long-term prevention of peri-implant disease.
- Detect; put into practice biofilm identification and a five-step protocol to assess and monitor dental implants.
- Diagnose; early intervention guidelines based on peri-implant soft and hard deficiencies
- Treatment; biofilm-focused maintenance for all forms of implant-borne restorations based on Scanning Electron Microscope testing on hand and ultrasonic instruments to use to debride titanium and ceramic Implants
- Provide safe home-care recommendations for all forms of dental implants, their restorations/prostheses.

Rebekka Hueber, med. dent.

Ceramic Implant Guided Augmentation Protocol

Course Description:
Always a solution at hand – definite instructions for bone augmentation in conjunction with ceramic implants for every indication - this is what the Guided Augmentation Protocol offers down to the last detail. This lecture will provide you with insights into the BISS - Bone Implant Stabilization System, indications for umbrella screws, special procedures for external sinus lifts, the use of disc abutments, and different solutions incorporating platelet-rich-fibrine, membranes and bone graft substitutes in biological oral surgery.

Learning Objectives:
- Indication based biological augmentation techniques in conjunction with ceramic implants, umbrella screws and disc abutments
- Different augmentation techniques performing an external sinus lift
- The perfect combination of platelet-rich-fibrine, collagen membranes and bone graft substitutes according to the GUIDED AUGMENTATION PROTOCOL.

Luis Bessa, DDS

Full Digital Workflow with ZR Implants: Where We Are and Where Do We Go

Course Description:
Full digital workflow is one of the cutting edge topics in implant dentistry. With the increased utilization of the zirconia implants it is demanding that new protocols appear. From documentation tools to design software and cam hardware, we have a wide range of options that should be criteria chosen. Although biology still is the foundation our treatments it should walk side by side with the technology in order to get faster, less invasive and more predictable treatment outcomes. During this lecture we will review the advantages of work with digital patient, and how we manage complex full mouth reconstructions integrating digital and aesthetics using ZR implants and bio-compatible restoration materials.

Learning Objectives:
- Understanding different software and how to get in the digital environment
- Guided surgery and prosthodontics with ceramic mono bloc implants
- Advantages of full digital workflow in complex cases

Holger Scholz, med. dent.

16 Years of All-Ceramic Zirconia-Based Implants

A retrospective evaluation of the data from more than 5,000 ceramic implants inserted from 2006 to 2020 a look into the future with a new implant design

Course Description:
In Germany from 1975 the so-called "Tübinger Implantat" made of high-purity sintered aluminum oxide was used. However, this ceramic did not have sufficient breaking and bending strength and long-term stability, so that the implants were withdrawn from the market. The newer generation of ceramic implants available from various companies from 2004 initially consisted of TZP (tetragonal zirconia polycrystal) or its variants and is still used today. Since 2007, another generation of ceramic implants with improved material properties made of ATZ (aluminum toughened zirconia) has also been available. In the Dental Clinic Constance, we only inserted ceramic implants from 2007 and now have the experience of more than 15 years and more than 5,000 ceramic implants. Based on this experience, the lecture gives a well-founded assessment of the possible indications for ceramic implants and the expected success rates. The lecture clarifies the currently established indications and gives an insight into the possibilities of metal-free implantology within the framework of biological dentistry. The experiences range from single tooth implants to complex implantological solutions and show the paradigm shift in implantology through the possibilities of biological dentistry.

Learning Objectives:
- The focus of implantology has evolved from a mechanistic to a biological thinking due to the possibilities that ceramics offer.
- Biological and digital dentistry are the appropriate answer to increasingly complex challenges in the field of tension between health and economic efficiency.
- The design of ceramic implants has changed based on 15 years of experience.

Sofia Karapataki, DDS

Peri-Implantitis and Zirconia Implants: Results After 5 Years of Clinical Performance

Course Description:
Peri-implantitis is one of the most common complications with titanium and titanium alloy implants. The etiological factors of peri-implantitis are multiple and are now believed to be also related to the implant materials. This is one of the main reasons why many dentists have had to consider or turn to alternative materials for implantation such as zirconia. However, is zirconia completely immune to this complication? Different reasons that are referred to as causative factors for the occurrence of peri-implantitis in titanium implants are presented in comparison to zirconia implants. Findings and observations from clinical cases observed in two implant centers are presented and all the cases included in this presentation have been under at least 5 years of clinical performance in the oral environment and in a variety of clinical situations. All implants evaluated are a two-piece zirconia implant by Patent Ceramic Implants system which were restored with customizable and cementable glass fiber abutments.

Learning Objectives:
- Are zirconia implants free of Periimplantitis?
- Causative factors of Peri-implantitis in titanium implants in comparison to zirconia implants
- Clinical performance of zirconia implants after at least 5 years of function

Daniel Gustavo Olmedo, DMD, PhD

Biotribocorrosion of Titanium Dental Implants: Local and Systemic Tissue Effects

Course Description:
Humans are exposed to different types of particles that can enter the body mainly by inhalation, ingestion or dermal absorption. In view of the widespread use of biomaterials in medicine, another potential source of body contamination with micro (MPs, >100nm) and /or nanoparticles (NPs, 1-100nm) is the surface of metallic biomedical devices. Titanium is widely used in the manufacture of dental and orthopedic implants due to its excellent biocompatibility. It is a highly reactive metal, and on exposure to air or fluids it rapidly develops a layer of titanium dioxide (TiO2), which passivates the metal. However, as a result of electrochemical corrosion processes, frictional wear, or a synergistic combination of both, ions/particles may be released from metal implants into the bioenvironment. The combined effect of mechanical, biochemical, and electrochemical factors is known as tribocorrosion. When this process occurs in a biological environment, it is referred to as biotribocorrosion. As a consequence of this phenomenon, the surface of a biomedical implant can be a potential source of release not only of MPs but also of NPs, into the biological milieu. Because NPs have a greater surface to volume ratio, they are biologically more reactive and potentially more harmful to human health. The chemically active metal ions/particles released from an implant surface, may bind to the surrounding tissues, but may also bind to proteins and be disseminated to distant organs in the vascular and lymphatic systems. Research in human samples conducted by our group has shown the presence of titanium particles in peri-implant tissue around failed human dental implants, in oral mucosa in contact with implant cover screws, in cells exfoliated from peri-implant oral mucosa around titanium dental implants, in reactive lesions in the peri-implant mucosa, and in infrequent pathologies in peri-implant tissues associated with titanium dental implants. In addition, our studies in experimental animal models demonstrated deposition of titanium MPs and NPs in target organs and the presence of a tissue response to these particle deposits. This presentation will address the local and systemic effects of biotribocorrosion of titanium, as shown by our studies in experimental animal and human tissues.

Learning Objectives:
- To know the general concepts pertaining to corrosion and tribocorrosion, and explain the risk of these processes occurring on the surface of a biomedical metallic implant, mainly titanium, placed in a biological milieu.
- To recognize the local and systemic effects of biotribocorrosion of titanium, mainly as shown by studies in experimental animals and human tissues.
- To evaluate the possible clinical implications of biotribocorrosion of titanium dental implants.

Miguel Stanley, DDS

Slow Dentistry - The Concept and How To Implement in Your Clinic

Course Description:
What separates a great dentist from a mediocre one? Why are some dentists more expensive than others? How can I find a good dentist for my needs? These questions and so many like them are raised daily by people around the world who are trying to get the best value for money and best quality of care from a dentist. With over 20 years of experience in advanced implant dentistry and cosmetic oral rehabilitation, more than ever he recognizes the vital importance of going slow at critical moments in time and that's what "Slow Dentistry" philosophy is all about. Learn how to establish basic staples of high-quality dentistry that are focused on ensuring that the patient has a safe, pain-free consultation. What is the concept of Slow Dentistry®? How can it get you to another level? The formula for success in the future: Slow Dentistry plus digital dentistry. The application of the 4 basic cornerstones of Slow Dentistry can truly lead to a stress free environment and is a practice builder, not to mention the benefits on mental health in the workplace.

Learning Objectives:
- How to establish basic staples of high-quality dentistry that are focused on ensuring that the patient has a safe, pain-free consultation
- Learning the Slow Dentistry® concept
- Application of the 4 basic cornerstones of Slow Dentistry - Make your clinic a Slow Dentistry® clinic

COURSE DESCRIPTIONS

Prof. Jérôme Chevalier, FRA

Ceria-Stabilized Zirconia: A New Alternative in Dental Implantology

Course Description:
40 years ago, Garvie and his Australian co-workers reported that the stress induced transformation of metastable tetragonal zirconia grains to the monoclinic symmetry could give rise to a powerful toughening mechanism. Their results even led them to consider zirconia systems as analogues of certain steels in terms of mechanical performances, while exhibiting a much superior corrosion resistance. This seminal paper generated extraordinary excitement in the ceramic community and led to a large variety of new applications. Transformation toughening is widely used in current zirconia materials, mostly in the form of yttria-stabilized systems (Y-TZP) and results in an increase in strength and toughness when compared to non-transformable ceramics such as alumina. However, it is evident that zirconia ceramics still fail at low strains with a much larger scatter in the strength values than metals and require statistical approaches to failure. Here we describe in details the mechanical behavior laws of newly developed ceriadoped zirconia composites exhibiting a high degree of stress-induced transformation. They display, i) significant amount of transformation-induced plasticity without damage, ii) very high flaw tolerance and iii) almost no dispersion in strength data. They potentially open new application avenues in situations where the advantages of ceramics were dampened by their brittle failure behavior. In particular, the consequences of such behavior for dental implants and additive-manufactured structures are highlighted. The biocompatibility and bone integration of this material is also discussed.

Prof. Shahram Ghanaati, MD, DMD, PhD, FEBOMFS

LECTURE: Do We Need A Biologic Contribution to Bone Substitute Materials and Collagen Membranes in Dentistry?

Course Description:
The regeneration of the soft and bone tissue within the oral cavity as a pre-implantological step is a complex process. In the last three decades blood concentrates have been used, in order to promote the tissue regeneration within oral cavity. Up to now, however, there is no systematic approach, how to apply blood concentrates for different applications in dental surgery. In this lecture, the development of PRF (Platelet-Rich-Fibrin) as an autologous blood concentrate and the LSCC (low speed centrifugation concepts will introduced. The results of multiple clinical studies for different indications will be shown, in order to highlight the potential of PRF for improving conditions during dental surgery, especially in open healing conditions.

HANDS-ON: Is the Regeneration of the Soft and Bone Tissue within the Oral Cavity as a Pre-Implantological Step a Complex Process?

Course Description:
The regeneration of the oral cavity as pre implantological procedure is a very complex process. The performance of a correct surgical technique represents simply an aspect of a diversified cascade. To understand the multidimensionality of wound healing we will explicate the below aspects in a daily course and discuss them in an interactive style of communication.
- clinical reality in relation to wound healing disorder and soft tissue regeneration
- attention of the atrophy for a successful regeneration
- Guided Bone Bone Tissue Regeneration: regeneration or augmentation?
- Guided Tissue Regeneration: barrier membrane or functional barrier membrane?
- Understanding of the cellular tissue's response of biomaterials
- negative impact of the tissue healing due to foreign body reactions
- indications of dentistry
- necessity of the biologisation of biomaterials for a successful surgical based regeneration
- blood concentrate: Differences and indications
- Development of PRF research and the LSCC concept
- blood sample for PRF production
- PRF in a clinical indication
- Socket preservation or alveoli healing?
- sinus augmentation
- complex three-dimensional augmentation
- soft tissue regeneration
- treatment of recession: autologous vs. biologic membrane
- overview of surgical techniques in the plastique and aesthetic periodontal therapy
- concepts of biological periimplantitis treatment

Learning Objectives:
- Understanding cellular tissue reaction to biomaterials for successful bone and soft tissue regeneration
- Blood concentrates and their potential for enhancing wound healing, LSCC
- Indication based dentistry and open healing

Prof. Jaafar Mouhyi, DDS, PhD

The Peri-implantitis : What About Surface Contamination, Bad Manufacturing and Corrosion Risks

Course Description:
Various methods have been applied for the treatment of peri-implantitis lesions. It was reported that the procedures used were effective in reducing the inflammatory lesion but re-osseointegration to the once contaminated implant surface was difficult or impossible to achieve. The aim of this lecture is to give some explanations to osseointegration phenomenon in general and to evaluate the critical level and kind of organic and inorganic contaminations taking part of the Periimplantitis reaction, corrosion process and others chemical changes on supposed clean implant surfaces. All those complicated parameters will be explained by mean documents based on scanning electron microscopy (SEM), MEB-EDAX, X-ray induced photoelectron spectroscopy (XPS), Atomic Force Microscopy (AFM) and Proton Induced X-ray photoelectron spectroscopy (PIXE), These data will explain mysterious clinical situations and gave us some precious informations about the peri-implantitis high complexity when it comes to surface physico-chemical aspects either Titanium or Ceramic implant

Learning Objectives:
- How to define and classify periimplantitis lesions.
- Understand osseointegration phenomenon with regards to phisico-chemical aspects of Titanium oxide surfaces
- Understand major changes of surface characteristics on contaminated Titanium in early and late implants failures.
- Description of an original and well documented protocol of peri-implantitis treatment developed and published by our research team

Sanda Moldovan, MS, DDS

Ceramic Dental Implants in The Esthetic Zone

Course Description:
Many patients require replacement of one or several anterior teeth. This course will present the all-ceramic implant option for single or several teeth in the aesthetic zone, particularly for those with a thin periodontal biotype. Papilla preservation via immediate temporization is imperative for the final Esthetic outcome.

Learning Objectives:
- Discuss principles of immediate tooth replacement using ceramic dental implants.
- Present Immediate temporization protocols for the Zeramex implant system
- Evaluate the use of biologics such as platelet rich fibrin and connective tissue grafting in maintaining the gingival profile.

France Lambert, Periodontist, DDS, MS, PhD

Mucointegration: Strategies for Peri-Implant Soft Tissues Integration

Course Description:
The mucointegration is of major importance to ensure long term success of implant and to prevent bacterial progression from the oral cavity to the implant surface. A major criterion influencing this biological interface is the type, quality and thickness of the peri-implant mucosa. How to preserve pre-existing keratinized and fibrous mucosa and how to thicken, increase or create a favorable soft tissue environment before or at implant placement will be illustrated. Another important parameter is the design and material composition of the trans-mucosal components, knowing that a cell adhesion is not possible on any material, and that the design of the abutment can create a stabilizing ring of connective tissue to protect underlying structures.

Learning Objectives:
- The objective of this lecture is to identify the key aspects affecting the maintenance of the soft tissue barrier.
- Additionally, a soft tissue friendly clinical protocol respecting the soft tissue integration will be proposed.

John B. Roberson, DMD, DNDBA, FACD, FICD, FICOI

Pharma DMD+MEP - Pharmacology with Medical Emergency Preparedness

Course Description:
Medical Emergencies happen in dental offices. They are not rare. Dentists and their staff must be ready, there can be no exception. The first 10 minutes are critical in a life-threatening emergency. This is an energetic, interactive lecture devoted to having dentists and their team ready on Monday. Every dentist and their team need to experience The L.I.F.E. Program.

Learning Objectives:
- What to do in the first 10 minutes of a medical emergency
- Recognize adverse reactions to drugs and implement appropriate interventions for those causing a medical emergency
- Understand and know the CORE 8 DRUGS and DOME 16 your office needs for medical emergencies
- Legal Ramifications of adverse events in dental offices
- Case Presentations involving various medical emergencies that occurred in dental offices

Judson B. Wall, DDS, FAGD, FAACP, AIAOMT

HANDS-ON: Laser Augmentation of Zirconia Implant Placement

Course Description:
The incidence of failed and failing titanium implants and root canal treated teeth is rising sharply. The connection between these oral crises and chronic degenerative conditions is coming to light. The Fotona Lightwalker laser has solutions for treating both peri-implantitis and failed root canals. Whether attempting to save failing titanium implants and root canal treated teeth, or cleaning the residue left behind after they are removed laser offers options. Dr. Wall will share what he uses to provide a consistent, reliable vehicle for treatment success.

Learning Objectives:
Dr. Wall will review:
- Laser basics and Treatment indications
- Recent literature supporting Er:YAG and Nd:YAG laser use
- Case studies to highlight the benefits of Laser Augmentation

Attendee Information:

Full Name:_____ ☐ Dentist ☐ RDH ☐ RDA

Address:_____ Suite#:_____

City:_____ State:_____ Zip:_____

Daytime Phone:_____ Cell Phone:_____

Email Address:_____

2021 REGISTRATION FEES

Member	Non-Member Dentist	Dental Auxiliary Personnel	Laboratory Technicians	Dental Students/Residents
10th IAOCI World Congress 2021 – Regular Registration Pricing: (June 24, 2021 - Aug 12, 2021)				
☐$795.00	☐$895.00	☐$495.00	☐$695.00	☐$395.00
Hands-on: Laser Augmentation of Zirconia Implant Placement (Wall)				
☐$425.00	☐$425.00	☐$425.00	☐$425.00	☐$425.00
Hands-On: Is the Regeneration of the Soft and Bone Tissue within the Oral Cavity as a Pre-Implantological Step a Complex Process? (Ghanaati)				
☐$495.00	☐$525.00	☐$295.00	N/A	☐$295.00
Swiss Dental Solutions Pre-Con				
☐$595.00	☐$595.00	☐$195.00	☐$495.00	☐$295.00
Swiss Dental Pre-Con + IAOCI 10th World Congress				
☐$1190.00	☐$1290.00	☐$590.00	☐$1090.00	☐$690.00
Friday Only				
☐$397.00	☐$447.00	☐$247.00	☐$347.00	☐$197.00
Saturday Only				
☐$397.00	☐$447.00	☐$247.00	☐$347.00	☐$197.00

Cancellation Policy: $100 processing fee if cancellation is processed by 7/1/21. 50% of registration fee will be refunded if requested on or before August 1, 2021. Cancellations after this date are non-refundable. Anything received after August 8th pays $20 more for late registration.

Payment Information:

Full Name:_____ Signature:_____

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Enclosed is a check for the amount of (or process our payment in the amount of) $_____

Complete and mail to: IAOCI, 15428 N. Nebraska Ave., Lutz, FL 33549 or fax to 813.422.7966

For more information on this seminar contact: 813-444-1011 • ali@amgoldman.com

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