

10<sup>th</sup> INTERNATIONAL QUINTESSENCE SYMPOSIUM on

# PERIODONTICS & RESTORATIVE DENTISTRY

Up to  
**28**  
CPD Hours



## New Frontiers of Aesthetic Excellence

Successfully Integrating the Best of Traditional & Digital Dentistry  
including an extra Pre-Symposium in-depth day on 11 October 2018

HILTON HOTEL, SYDNEY AUSTRALIA

**OCTOBER 11-14 2018**

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# Meet the Presenters

## Scientific Chairman

### Professor Laurence Walsh

BDS, PhD, DDSc, GCEd, FRACDS, FFOP(RCPA), AO

Brisbane, Australia



Laurence completed his undergraduate training at University of Queensland in 1983 and his PhD in 1987, then undertook postdoctoral studies at the University of Pennsylvania and at Stanford University. He is a board-registered specialist in special needs dentistry, and immediate past president of the ANZ Academy of Special Needs Dentistry.

Laurence holds a personal chair in dental science at the University of Queensland, where he is the program leader for research into advanced dental technologies and dental biomaterials. He has published extensively in the biomedical literature, having authored over 300 journal articles. Laurence is an Editorial Board member of 5 international dental journals.

### Dr Deborah Bomfim

BDS, MSc, MJDF, FDSRCS

London, UK



Deborah is a Consultant and Clinical Lecturer in Restorative Dentistry at UCLH Eastman Dental Hospital in the units of Periodontology and Prosthodontics. She completed her dental training at King's College London Dental Institute, and worked at four major London teaching hospitals, before undertaking her specialist training at the Eastman Dental Institute in the field of Restorative Dentistry, covering Prosthodontics, Periodontology, Endodontics and Implant Dentistry. Deborah works in leading multi-specialist practices in London, providing complex prosthodontic, periodontology and implant dentistry. She is actively involved in specialist training and continuing professional development. She runs courses for dentists, including for the British Society of Restorative Dentistry, of which she is a council member.

### Dr Rupert S Austin

BDS, MCLinDent, PhD

London, UK



Rupert is a specialist prosthodontist. As a Clinical Lecturer and Consultant in Prosthodontics at King's College London Dental Institute, Rupert is the clinical lead for Digital Dentistry at Guy's Hospital, integrating Europe's largest suite of CAD/CAM and 3D imaging technologies into undergraduate and postgraduate curricula. After completing his dental training at Manchester University in 2006, Rupert completed a PhD in enamel erosion in 2011, then a Masters in Clinical Dentistry. He completed his specialist training in prosthodontics in 2015. Rupert's research focus is enhancing diagnosis and treatment of dental hard tissue pathologies using innovative imaging technologies. This includes expanding the clinical applications of intra-oral digital impression systems to impact prevention, patient experience and effectiveness of oral care.

### Dr Wenche S Borgnakke

DDS MPH PhD

Ann Arbor, Michigan, USA



Wenche ("Venke") is a Senior Research Associate in the Department of Periodontics and Oral Medicine at the University of Michigan School of Dentistry. She completed her dental training and PhD in Copenhagen, and then undertook a Masters of Dental Public Health degree in Michigan. Venke has been a member of the CDC/AAP Working group on Periodontitis Surveillance. She has made major contributions to oral microbiology, and her work has been recognized with awards from the American Academy of Periodontology in 2012, 2013 and 2016. She has published extensively, and her recent publications include THE TRAVELING ORAL MICROBIOME. Her research on the distribution of periodontitis has provided valuable information for population-based action to prevent or manage periodontitis across groups in the population.



# New Frontiers of Aesthetic Excellence

## Successfully Integrating the Best of Traditional & Digital Dentistry

### Professor Lorenzo Breschi

DDS, PhD

**Bologna, Italy**

Lorenzo completed his dental training in 1994 and then undertook a PhD at the University of Bologna in Italy. He is now Professor of Restorative Dentistry and Dental Materials at the University of Bologna, where he is also the Head of Conservative Dentistry and Director of the Masters program in Aesthetic Restorative Dentistry. Lorenzo is President of the European Federation of Conservative Dentistry and of the International Academy of Adhesive Dentistry, and serves on leadership positions within the Academy of Dental Materials and DMG-IADR. He has published extensively on aspects of adhesion and restorative materials, and his published research work has been cited worldwide.



### Dr Stephen J Chu

DMD, MSD, CDT

**New York, USA**

Stephen maintains a private specialist prosthodontic practice with Dr Dennis Tarnow in New York City, with a focus on aesthetic, restorative, and implant dentistry. He completed his dental training at the University of Pennsylvania in 1984 and then his master's degree in restorative dentistry and certificate in post-graduate Fixed Prosthodontics from the University of Washington in 1986. Stephen subsequently obtained dental technician certification in dental ceramics in 1996 and ASMDT status in 1998 at NYU. He is an Adjunct Clinical Professor in the Department of Prosthodontics at New York University College of Dentistry. Stephen has published widely on aesthetic, restorative, and implant dentistry. He co-authored "The Fundamentals of Color: Shade Matching and Communication in Esthetic Dentistry" (2004) and "Aesthetic Restorative Dentistry: Principles and Practice" (2007).



### Dr Chee W Chang

BDS, DClinDent

**Melbourne, Australia**

Chee is a specialist prosthodontist in full time private practice in Melbourne. He is also involved with teaching undergraduates and postgraduates at the University of Melbourne. Chee completed his dental training at the University of Otago in 1999, then after working and undertaking postgraduate education in advanced dentistry in the UK returned to New Zealand to complete his specialist training in prosthodontics in 2009. Chee has particular interests in biomaterials and the application of digital dentistry in everyday prosthodontic practice. He has lectured internationally on a range of prosthodontic and implant-related topics. Chee serves as the President of the Australian Prosthodontic Society (VIC), and also serves on committees for the Australian Dental Association and the Academy of Australian and New Zealand Prosthodontists.



### Dr Victor Clavijo

DDS, MSc, PhD

**São Paulo, Brazil**

Victor works in private practice, with an emphasis on restorative aesthetic dentistry. He completed his dental training at the Paulista University - UNIP, and then his training in restorative dentistry the Araraquara Dental School, São Paulo State University - UNESP, and in implant dentistry at SENAC University, Sao Paulo, Brazil. Victor's Masters and PhD research were both in the field of Restorative Dentistry. He teaches the Advanced Program in Implantology and Restorative Dentistry at the ImplantePerio Institute, São Paulo, Brazil. He has published extensively in Portuguese, English and Spanish.





# New Frontiers of Aesthetic Excellence

## Successfully Integrating the Best of Traditional & Digital Dentistry

### Dr Arndt Happe

DDS, PhD

Münster, Germany

Arndt is a specialist in oral surgery. He completed his dental training at the University of Münster in 1994, and then completed oral surgery residencies followed by training in implantology (2000) and in periodontology (2004). In 1999 he established his own clinical practice in Münster, treating implant, perio, restorative and aesthetic cases. In 2010, Arndt became a research fellow and visiting lecturer at the University of Cologne, and in 2013 became an assistant professor. His clinical interests include anterior aesthetics and all-ceramic restorations, aesthetics in implantology, augmentation surgery, soft tissue management, and microsurgery. He has published articles and textbook chapters on implant treatment, aesthetics and soft tissue management, and has taught these topics in several postgraduate programs.



### Dr Paulo Kano

DDS, CDT

São Paulo, Brazil

Paulo has been in private general dental practice in São Paulo, Brazil since 1988, with an emphasis on aesthetics, implantology, and soft tissue rehabilitation. After commencing his career as a dental technician in 1974, Paulo completed dental training, and then a Masters degree in Implantology in São Paulo, Brazil. He serves as Head of the Department of Digital Dentistry for São Leopoldo Mandic University, São Paulo, Brazil, and teaches aesthetic dentistry at the postgraduate level at the Department of Restorative Dentistry - Federal University of Santa Catarina (UFSC), Santa Catarina, Brazil. His publications are in the area of aesthetic dentistry, prosthetic dentistry and the dental laboratory. Paulo is the creator of the SKIN (Clones) concept, and his book "Challenging Nature" has been edited by Quintessence and translated into 5 languages.



### Dr Christopher CK Ho

BDS, GDipClinDent, MCLinDent, DCLinDent, MRACDS (Pros)

Sydney, Australia

Chris is a specialist prosthodontist in private practice in prosthodontic and implant dentistry in Sydney. After his dental training at the University of Sydney, Chris completed the Graduate Diploma in Clinical Dentistry in Oral Implants at the University of Sydney, followed by a Masters of Clinical Dentistry in Prosthodontics at the University of London, and then specialist training in prosthodontics at the University of Sydney. Chris lectures extensively on aesthetic and implant dentistry, and teaches into the Oral Implant Diploma and Post-graduate Prosthodontic programs at the University of Sydney. He is a Faculty member of the Global Institute for Dental Education, Academy of Dental Excellence and is a visiting lecturer at Kings College London. Chris is the author of numerous publications and is editor of the textbook "Practical Procedures in Aesthetic Dentistry".



### Associate Professor Tomas Linkevičius

DDS, PhD

Vilnius, Lithuania

Tomas is a specialist prosthodontist with a particular interest in implant dentistry. Tomas completed his dental training at Kaunas Medical University in 2000, his specialist training in prosthodontics at Vilnius University in 2004, and then gained his PhD from Riga Stradins University in Latvia in 2009. Tomas now works in specialist practice and at a private dental research facility. He is an Associate Professor at the Institute of Odontology, Vilnius University in Lithuania, and he also serves as a Visiting Professor for Ghent University, Belgium. Tomas has published extensively on soft tissues and cementation of implant restorations. He developed "Zero Bone Loss Protocols" clinical techniques for developing and maintaining crestal bone stability around implants. Tomas lectures internationally and is an active member of the European Academy of Osseointegration, and Academy of Osseointegration.



# Meet the Presenters

## Dr Anthony Mak

BDS, PGDipClinDent

Sydney, Australia

Anthony runs two general dental practices in Sydney. After completing his dental training at the University of Sydney in 2002, Anthony completed the Post Graduate Diploma in Clinical Dentistry (Oral Implants). Anthony has lectured extensively on the topic of direct restorative dentistry. He has particular interests in restorative materials and techniques, and in CAD/CAM digital dentistry. His two practices in metropolitan Sydney focus on quality modern comprehensive care, including implant dentistry. Anthony serves as a clinical consultant for Zfx, a manufacturer of dental CAD/CAM systems.



## Associate Professor Axel Spahr

Dr. med. dent. habil., MRACDS (Perio)

Sydney, Australia

Axel is a specialist periodontist. He is the Head of Periodontics at the Sydney Dental Hospital, and Head of the Discipline of Periodontics at the University of Sydney. In addition to his hospital work, Axel works part time in specialist periodontal practice in Sydney. Prior to coming to Sydney in 2010, Axel was Head of Periodontics at the University of Ulm in Germany. He has broad experience in molecular biology, basic science research, animal research and clinical research. His research interests include periodontal regeneration, bone regeneration, interactions between periodontitis and systemic diseases, antimicrobial therapy, and peri-implant diseases. He is a past President of the Periodontal Research Group of the International Association of Dental Research (IADR).



## Professor Marleen Peumans

DDS, PhD

Leuven, Belgium

Marleen was born in Belgium, and obtained her degree in Dentistry in 1987 at the Catholic University of Leuven, followed by a 4-year post-graduate program at the Department of Operative Dentistry. She applied herself especially to the clinical use and the performance of anterior and posterior resin composites, bonded ceramic restorations, fibre-reinforced composite restorations and bleaching. Marleen has taken part in numerous clinical studies concerning dentine adhesives, posterior composites, and ceramic veneers/inlays/onlays. In 1997 she obtained the degree of Doctor in Medical Sciences. She is Professor at the Catholic University of Leuven since 2004. She has written several national and international publications concerning the clinical performance of adhesive restorations and bleaching.



## Dr Douglas A Terry

DDS

Houston, Texas, USA

Douglas maintains a private general dental practice in Houston, Texas emphasizing aesthetic and restorative dentistry. He completed his dental training at the University of Texas Health Science Center in Houston in 1978. Douglas is known internationally for his work in aesthetic dentistry, and he has published extensively in numerous languages. Douglas is an adjunct professor in the Department of Restorative Sciences at the University of Alabama at Birmingham, and Professor Emeritus in the Department of Conservative Dentistry and Endodontics at the V.S. Dental College & Hospital, Rajiv Gandhi University of Health Sciences in Bangalore, India. His recent Quintessence books include Esthetic and Restorative Dentistry: Material Selection and Technique, 2nd Edition (2013), What's in Your Mouth? / What's in Your Child's Mouth? (2013), Smile! Your Guide to Esthetic Dental Treatment (2014), What's in Your Mouth? Your Guide to a Lifelong Smile (2014), Expressions of the Soul Exposed (Quintessence Publishing, 2015), Restoring with Flowables (2016), and Esthetic and Restorative Dentistry: Material Selection and Technique, 3rd Edition (2018).



# New Frontiers of Aesthetic Excellence

## PRE-SYMPOSIUM: Thursday 11 October 2018

**8.00am**

### REGISTRATION

**8.45am**

#### Welcome - Scientific Chairman

Professor Laurence Walsh  
BDSc, PhD, DDSc, GCEd, FRACDS, FFOP(RCPA), AO

It is my great pleasure to commend to you the program for the 2018 International Quintessence Symposium. As in past years, we have aligned the program to the "hot topics" in restorative dentistry, periodontology and implant dentistry, drawing together a cast of impressive international and Australian speakers.

Across the three days of the event, both hard tissue and soft tissue aspects will be addressed, and integrated together. The 2018 program includes a Pre-Symposium Day, rather than running dual streams so attendees are not torn between what sessions to attend. There is a wide range of workshops including hands-on, theory, and blends of both, for providing that more intensive and intimate exposure to topics of key interest.

**9.00 - 11.30am**

#### Immediate Tooth Replacement Therapy with Multiple Implants, Teeth, and Pontics in the Aesthetic Zone

Dr Stephen J Chu DMD, MSD, CDT

Current trends in implant therapy advocate clinical techniques thereby allowing treatment efficiency consisting of condensed clinical procedures, fewer patient appointments, and shortened overall treatment time. Even though there is overwhelming literature to support positive outcomes in regard to implant survival through immediate implant therapy and tooth replacement strategies, aesthetics questions still loom, specifically how to handle multiple tooth sites in the aesthetic zone.

This presentation will address the literature associated with management of multiple implants in the aesthetic zone; specifically, treatment planning strategies with multiple tooth sites incorporating teeth, immediate implants with tooth replacement, and pontics in the aesthetic zone as well as innovative devices and strategies in provisional restoration fabrication.

*Includes Morning Refreshments Break  
10.00 - 10.30am*

**11.30 - 2.30pm**

#### Implant Placement Depth and Selection of Prosthetic Materials - *Is there a connection?*

Associate Professor Tomas Linkevicius DDS, PhD

The depth of implant placement may depend on various factors - implant/abutment connection stability, absence or presence of platform switching and other. There is no clear consensus how deep the implant can be placed, because the deeper the implant is positioned, the longer peri-implant seal becomes. Subsequently, the selection of restorative materials becomes very important. Zirconia is known for its biocompatibility and usually proposed as the first choice, however many other materials can be used, such as ceramics, titanium or porcelain. This session will address how the tissues will react to different material when implant is placed deep in the bone.

*Includes Lunch Break at 12.30pm - 1.30pm*

**2.30 - 3.00pm**

#### AFTERNOON REFRESHMENTS BREAK

**3.00 - 4.00pm**

#### Simplification in Implant Dentistry

Dr Anthony Mak BDS, PGDipClinDent

The use of implant retained prostheses to restore edentulous spans ranging from a single unit to a complete full arch is today commonly accepted as the option of choice in many presenting clinical situations.

Conventional analogue workflows in implant dentistry, from the planning, placement and finalisation of the prostheses has always seemed to be difficult, requiring a high degree of expertise, experience and multi-disciplinary interactions between the surgical and restorative dentist. The development of digital technologies and the implementation of the corresponding digital workflows in the field of implant dentistry, however, have allowed for the simplification and streamlining of all aspects involved in the delivery of the restoratively driven implant retained prostheses.

This lecture will review the digital technologies, workflows and techniques that have allowed the simplification of the implant procedure from the pre-operative planning stages, the surgical placement, to the prosthetic phases.

**4.00pm**

Q & A PANEL

**5.00pm**

CLOSE

# Successfully Integrating the Best of Traditional & Digital Dentistry

## DAY 1: Friday 12 October 2018

**7.30am**

**REGISTRATION & EXHIBITION OPEN**

**8.00am**

**Welcome - Scientific Chairman**

Professor Laurence Walsh  
BDS, PhD, DDS, GCEd, FRACDS, FFOP(RCPA), AO

**8.30am**

**Integrating the Fundamental Concepts for Aesthetic and Restorative Dentistry**

Dr Douglas A Terry DDS

This one-hour presentation will encompass many facets of aesthetic and restorative dentistry including: biomaterials selection, operative techniques and principles, diagnostic and communication concepts, the adhesive design concept, functional composite prototyping, periodontal plastic surgical procedures and prosthetic guidelines for treatment of interdisciplinary cases. This presentation will emphasize the significance of using the basic building blocks of restorative and prosthetic dentistry for achieving perioaesthetic excellence. Techniques and materials for each of these topics will be described throughout the presentation as illustrated in Douglas's new textbook, *Esthetic and Restorative Dentistry: Material Selection and Technique*.

Learning objectives:

- Examine the preoperative considerations for developing natural aesthetics with composite and ceramic restorations.
- Learn how to select and integrate restorative materials and adhesive protocols with sound fundamental design principles for direct and indirect composite and ceramic restorations.
- Examine the complete process of interdisciplinary treatment.

**9.30am**

**Periodontal Regeneration - Modern Techniques, Prognosis, Case Selection and Future Concepts**

Associate Professor Axel Sphar  
Dr. med. Dent. Habil., MRACDS (Perio)

This lecture reviews current knowledge, advances, methods and materials in relation to regenerating tooth supporting tissues lost due to periodontal diseases. Today, marginal periodontitis therapy aims at complete regeneration of lost periodontal tissues (*restitutio ad integrum*) rather than merely preventing further attachment loss. This presentation is to outline and evaluate past and current concepts of periodontal regeneration and to describe possible future developments concerning periodontal regeneration.

**10.30 - 11.00am**

**MORNING REFRESHMENTS BREAK**

**11.00am**

**Bonded Aesthetic Restorations in the Anterior Dentition - Contemporary minimal intervention concepts in utilising direct and indirect techniques for maximum aesthetic results**

Dr Anthony Mak BDS, PGDipClinDent

The expectation that anterior dental restorations should be highly aesthetic, durable and minimally invasive is becoming the common expectation among patients who are increasingly well informed. The utilisation of direct composite resin, bonded ceramic restorations or the combination of the 2 restorative options has rapidly become the cornerstone modality in meeting these expectations.

The goal of this presentation is to demonstrate how basic planning and execution of these modalities of treatment can be applied from the simple everyday cases to the more complex and challenging cases. The presentation will highlight the use of modern digital technologies; from digital scanning and planning, milling and 3D printing to simplify and facilitate the delivery of both direct and indirect restorations.

Key restorative concepts for direct resins and ceramics will be highlighted using highly visual images, and videos to ensure that the content is delivered in a manner that is easy to understand and most importantly, applicable in everyday practice.



# New Frontiers of Aesthetic Excellence

## DAY 1: Friday 12 October 2018

**12.00pm**

### **Zero Bone Loss Concepts - *The development and maintenance of bone stability around implants. Evidence-based clinical guide***

Associate Professor Tomas Linkevicius DDS, PhD

Mucosal tissue thickness was shown to be the factor having impact on crestal bone stability. Even platform switching of the implant-abutment connection does not reduce crestal bone loss, if soft tissues at the implant placement are thin.

It is suggested that thin tissues might be thickened during implant placement, thus reducing bone resorption. The proposals put forward depend on the bone height including (1) bone reduction to passively augment soft tissue proportion, (2) subcrestal placement to achieve greater soft tissue contact or (3) a 'tent' technique that involves covering the abutment with the flap to provide soft tissue growth. If bone height is not sufficient, vertical augmentation of the soft tissue is recommended with different materials - autograft, a xenograft or a dermis-derived allograft.

Further, it is important to preserve bone levels after prosthetic treatment. Recent research has proved that the deeper the position of the margin, the greater amount of residual cement is left undetected. The relation between position of cement excess in the peri-implant sulcus, periodontal status of the patient and severity of peri-implant disease is explained. To avoid cement excess, finished implant restoration with occlusal opening is cemented on titanium base in laboratory and restoration is attached to the implant by an abutment screw. Zirconium as a material is considered the best for peri-implant soft tissues. However, it's evident that it must be treated in special manner and polished.

**1.00pm**

### **Q & A PANEL with the Morning Presenters**

**1.30pm - 2.30pm**

**LUNCH**

**2.30pm**

### **Creating a Seamless Transition between Implants and Natural Teeth in the Anterior Zone**

Dr Victor Clavijo DDS, MSc, PhD

With the popularization of dental implants for single to complex restorations, the importance of treatment planning has been emphasized. We are frequently challenged by malpositioned implants, loss of interdental papillae, soft tissue discoloration, and other problems. The connective zone between the restoration and the soft tissue is one of the most important aspects that will lead to an imperceptible aesthetic oral rehabilitation. This lecture will highlight the treatment planning options for highly challenging and demanding aesthetic cases by using pink ceramics, implants, and/or veneers to improve aesthetic outcomes.

**3.30pm**

### **Assessing Digital Dentistry from an Analog Perspective - *Why Should I Change?***

Dr Chee W Chang

There is no doubt that we are able to achieve excellent treatment outcomes using tried and tested, analog treatment workflows. However, there is the perception that dentistry is "going digital", and that we will soon all be scanning our patients instead of taking impressions. With the significant time and financial investment required, it is important that we critically assess the outcomes that a digital treatment workflow can provide. This lecture will explore some of the literature relating to accuracy of digital dentistry, as well as provide perspectives from private clinical practice as to the differences between analog and digital treatment workflows.

**4.30 - 4.45pm**

### **AFTERNOON REFRESHMENTS BREAK**

**4.45pm**

### **Immediate Tooth Replacement Therapy with Single Tooth Implants with and without Dentoalveolar Defects**

Dr Stephen J Chu DMD, MSD, CDT

Implant dentistry is continuously evolving offering new and more predictable forms of therapy with minimally invasive protocols. Innovative techniques now allow for better aesthetics, decreased treatment times, and greater patient comfort. However, these new techniques and therapies continue to raise questions and concerns regarding the risk and rewards of each. Specifically, controversial issues regarding immediate extraction socket implant placement in relationship to survival and aesthetic outcomes. Immediate provisional restoration of immediate implants placed into anterior sites will be presented.

This lecture will address current concepts in the treatment of Type 1, 2, and 3 sockets, techniques, clinical research, histologic evidence, and innovations in immediate implant placement and provisional restoration and how they can enhance treatment procedures, time, and clinical outcomes for greater patient comfort, care, and satisfaction.

**5.45pm**

### **Q & A PANEL with the Afternoon Presenters**

**6.00pm**

### **DRINKS & CANAPES**

*Join your colleagues for a glass of bubbly and a chat!*



# Successfully Integrating the Best of Traditional & Digital Dentistry

## DAY 2: Saturday 13 October 2018

**7.30am**

**EXHIBITION OPEN**

**8.20am**

**INTRODUCTION**

**Dr Christopher CK Ho**

BDS, GDipClinDent, MCLinDent, DCLinDent, MRACDS (Pros)

**8.30am**

**Aesthetics and Function with High Technology Systems**

Dr Paulo Kano DDS, CDT

The Objective of this lecture is to Optimize aesthetics and function with rehabilitations using natural morphologies. The SKIN (CIlones) technique involves the most advanced CAD/CAM technologies, extracting the maximum of precision, quality and speed, in obtaining ceramic restorations. It permits greater predictability of results and reduction of important clinical and laboratory steps, dispensing wax-up for diagnostic and mockups. The SKIN allows an unlimited creation of smiles through the numerous dental compositions.

**9.30am**

**Digital Restoration of Worn Teeth - Ensuring an Evidence Based Approach in the Digital Age**

Dr Rupert S Austin BDS, MCLinDent, PhD

Erosive Tooth Wear is on the increase and increasingly minimally invasive strategies are being proposed to ensure that treatment is as precise and tailored as possible. However, the evidence base for oral rehabilitation of advanced tooth wear cases supports the use of conventional restorations for maximum longevity and novel metal free CAD/CAM materials remain untested in long term follow-up studies. This lecture will outline how the optimal use of digital technologies has opened up novel strategies for screening, diagnosis and management of tooth with a focus on preservation of as much tooth structure as possible and the longevity of the proposed restorations. The audience will be updated on the latest science on the prevention and management of tooth wear with discussion of case examples.

**10.30 - 11.00am**

**MORNING REFRESHMENTS BREAK**

**11.00am**

**Immediate Versus Delayed Implant Placement - the right timing for Implants in the Aesthetic Zone**

Dr Arndt Happe DDS, PhD

After tooth extraction the alveolar ridge undergoes changes in structure and volume. This creates the need for augmentation of hard and soft tissue if an immediate-delayed approach is chosen. Concepts of immediate implant placement in fresh extraction sockets carry the risk of mid-facial soft-tissue recessions.

The lecture will present contemporary concepts for immediate implant placement that yield in preserving the peri-implant hard and soft tissues with a specific approach. Substitutes for hard and soft tissues enable the clinician to replace failing teeth in the aesthetic zone with fast and efficient approach that is minimally invasive, also for aesthetically demanding patients.

**12.00**

**IVEN KLINEBERG KEY NOTE SPEAKER**

**The Additive Approach to Complex Rehabilitations: Digital Workflow meets the Art and Science of Dentistry**

Dr Christopher CK Ho

BDS, GDipClinDent, MCLinDent, DCLinDent, MRACDS (Pros)

In this modern age we have a plethora of options to rehabilitate broken down dentitions. In this presentation the concepts of additive dentistry with both direct and indirect restorative materials will be shared, with a detailed outline of the latest in materials and techniques to restore teeth predictably. Historical concepts of conventional crown and bridge dentistry have morphed into more conservative and adhesive approaches to solve complex dental problems. Multiple patient cases will be shared to allow an understanding of both material requirements and procedural techniques to deliver successful and aesthetic outcomes.

**1.00pm**

**Q & A PANEL with the Morning Presenters**

**1.30 - 2.30pm**

**LUNCH**



# New Frontiers of Aesthetic Excellence

## DAY 2: Saturday 13 October 2018

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### 2.30pm

#### Indirect Bonded Partial Restorations in the Posterior Region - *New Concepts*

Professor Marleen Peumans DDS, PhD

Restoration of large defects in the posterior region with a direct composite restoration is possible, although this is not an easy task for the dentist. The practitioner has to pay attention to the 'hidden quality' of the restoration by preparing a qualitative good cavity prep, as this will increase the durability of the restoration. The most difficult steps in the fabrication of a large direct posterior composite restoration are: creating a correct form with good occlusal anatomy and well-formed proximal surfaces with strong good positioned contact points. One or two posterior teeth in a quadrant restored in this way, can function quite well in the medium term (+ 5 years). Bruxism and high caries risk seriously decrease the durability of these restorations. The most durable, minimal invasive restoration of posterior teeth with large defects is an indirect lithium disilicate partial bonded restoration (onlay, partial crown).

During this lecture, the new concepts of indirect partial bonded restorations in the posterior region will be discussed going from indications - preparation - immediate dentin sealing/dentin margin elevation and cementation.

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### 3.30pm

#### Clinical Tips for Successful Bonding from Etching to Light Curing

Professor Lorenzo Breschi DDS, PhD

This presentation will critically review the latest improvements in dental bonding systems. Chemical background and physical characteristics of the adhesives will be assayed to understand the clinical capabilities and the role of the clinician to obtain the highest bonding performances, in terms of improved bond strength, extended durability and reduced post-op sensitivity. The lecture will also clarify the mechanisms that affect the stability of the adhesive interface over time, analyzing the role of different degrading phenomena synergistically contributing to degrade the hybrid layer.

The lecture will provide clinical step-by-step procedures along with "tips and tricks" to achieve the highest clinical success in terms of aesthetic requirements, biomechanical properties of adhesive restorations, bond strength and stability of the adhesive interface over time.

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### 4.30pm

#### The Traveling Oral Microbiome - *An Overview*

Wenche S Borgnakke DDS, MPH, PhD

Novel technology and superfast computers are nowadays enabling exploration of the "oral microbiome," namely the collective population in the oral cavity of bacteria, virus, fungi, and archaea that also has been referred to as the "oral microflora" or "oral microbiota." Over 700 bacterial species -- possibly as many as 1,000 -- reside in the mouth, but identification of more than half is lacking and even less is known about their function. This presentation will provide an overview of the scientific evidence for characteristics of the oral microbiome, including its constantly changing composition and abundance; its diversity within the oral cavity; and its importance relative to the total human microbiome. Finally, mechanisms used when oral microbes travel within their host (domestic travel) and from one person to another (international travel) will be described conceptually.

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### 5.30pm

#### Q & A PANEL with the Afternoon Presenters

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### 6.00pm

#### Exhibition Close

**DAY 3: Sunday 14 October 2018**

**FULL DAY WORKSHOPS 8.30AM - 5.30PM**

**Composite and Ceramics: Layer, Prep, Scan and Bond**

*Restorative Solutions for 2 commonly encountered clinical Scenarios*

**Professor Marleen Peumans** DDS, PhD & **Dr Anthony Mak** BDS, GRAD DIP CLIN DENT SYD UNI

**Mimicking Nature: Managing a fractured discoloured tooth with a Simplified Composite Technique**

Composite is considered worldwide as the first choice material for direct composite restorations in the anterior and posterior region. The main advantage is their minimal invasiveness and that an aesthetic result can be obtained with a favourable cost for the patient. Nowadays, the ultimate goal is to imitate the natural tooth as perfect as possible. To achieve this outcome, current composite materials have an arsenal of shades and opacities that is too extensive for dentists. In addition, the technique to use these different opacities and shades in a correct proportions and layering technique is too complicated.

This component of the hands on program introduces a simplified composite system (Essentia GC) that is formulated to take into account the natural aging process of teeth. During this workshop, a fractured and discoloured incisor will be restored to mimic nature with this simplified system. The different step of the procedure (preparation, layering, finishing and polishing) of this challenging but commonly presenting clinical scenario will be demonstrated step by step.

**Predictable Bonded Posterior Indirect Restorations**

The use of bonded partial coverage ceramic restorations in the posterior dentition has become the cornerstone of the modern general dental practice. The hands-on program introduces a comprehensive approach for the restoration of a broken down posterior molar, restoring function and aesthetics, with a bonded partial coverage ceramic restoration.

Adhesive and minimal intervention concept as it pertains to this modality of treatment will be presented with the workshop covering all aspects from treatment planning, through preparation, digital scanning, provisionalisation and final cementation/finishing.

Learning Objectives:

- Tooth Preparation of a bonded ceramic onlay using biomimetic principles.
- Immediate Dentin Sealing and Gingival Margin Elevation Procedure.
- The utilization of digital scanners for capturing the impression of the preparation.
- Treatment of the fitting surface of the restorations.
- Adhesive Cementation of the restoration.
- Polishing and finishing procedures.

Limited to 22 participants

Hilton Hotel

\*Workshop locations may change. Check location on your final documentation



# New Frontiers of Aesthetic Excellence

**DAY 3: Sunday 14 October 2018**

**FULL DAY WORKSHOPS 8.30AM - 5.30PM**

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## Immediate Tooth Replacement Therapy to Enhance Aesthetic Outcomes

**Dr Stephen J Chu** DMD, MSD, CDT

The first half of this full day workshop focuses on minimally invasive protocols for immediate tooth replacement. Such techniques allow for better aesthetics, decreased treatment times, and greater patient comfort, but one must consider risks versus rewards for immediate extraction socket implant placement, considering survival and aesthetic outcomes. Immediate provisional restoration of immediate implants placed into anterior sites will be presented.

The afternoon hands-on component covers surgical placement of implant into an extraction socket [maxillary anterior central incisor & premolar], and then immediate temporization using either a custom healing abutment, the full tooth, or the use of an i-Shell to make a temporary restoration.

**Limited to 20 participants**

**Hilton Hotel**

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## Zero Bone Loss Concepts: *The development and maintenance of bone stability around implants.*

**Associate Professor Tomas Linkevičius** DDS, PhD

**Part I. Development of crestal bone stability. Vertical soft tissue thickness: Its' Effects on the Crestal Bone Stability.**

Part I of this workshop focuses on vertical soft tissue thickness. Attendees will learn how to diagnose thin vertical tissues, how to increase vertical thickness with allogenic membranes, the Tent" technique to increase crestal bone, and related topics. They will learn different methods to make thin tissues thicker, including details of incisions, suturing, bone modification, and implant placement.

Part II explores prosthetic factors, including cement excess, subgingival and supragingival materials, and impressions of deeply placed implants. Attendees will learn techniques for safe cementation without cement excess, methods for construction of cement-screw retained restorations using Ti bases, and selection of materials. The workshop will also include a discussion of the effect of zirconia materials on peri-implant soft tissues.

**Limited to 20 participants**

**Hilton Hotel**

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## Adhesive Design using the Inverse Injection Composite Layering Technique

**Dr Douglas Terry** DDS

This all-day hand's-on workshop teaches a novel indirect/direct injection technique for composite layering that provides a precise and predictable method for translating a diagnostic wax-up or a pre-existing diagnostic model into composite restorations by mixing various hues and opacities of highly filled flowable materials. The technique has many other applications as shown in Dr Terry's latest book "Restoring with Flowables." The workshop will help dentists gain skills in color mixing for creating polychromatic lifelike restorations. It provides many technique tips on direct bonding of multiple composite restorations.

It is strongly suggested that each participant review Chapter 8: Provisionalization in Esthetic & Restorative Dentistry: Material Selection & Technique 3rd edition, prior to the workshop.

**Limited to 20 participants**

**ADA Centre for Professional Development, 1 Atchison Street, St Leonards NSW**

\*Workshop locations may change. Check location on your final documentation

# Successfully Integrating the Best of Traditional & Digital Dentistry

## DAY 3: Sunday 14 October 2018

### HALF DAY MORNING WORKSHOPS 8.30AM - 12.30PM

#### Immediate Implants in the Aesthetic Zone - *Managing Hard and Soft Tissues for Predictable Aesthetic Results*

Dr Arndt Happe DDS, PhD

In this theory-based workshop, attendees will learn to recognize risk factors in preserving and preparing implant sites in the aesthetic zone, based on the different biological parameters around natural teeth versus dental implants. There will be a discussion of timing and protocols in contemporary implant treatment, particularly for immediate implant placement. The workshop will also cover the benefits of modern substitutes for connective tissue, and how to prevent problems of soft-tissue recession.

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#### Systemic Effects of the Traveling Oral Microbiome: *An Interactive Presentation*

Dr Wenche S Borgnakke DDS MPH PhD

This workshop will help make sense of the science around interactions between the oral microbiome and the whole body, and make the information on this topic accessible for clinical use by dental professionals. Scientific evidence for consequences of travel to and colonization of remote locations by members of the oral microbiome will be discussed, focusing on associations between periodontitis and systemic diseases such as diabetes mellitus, obesity, metabolic syndrome, atherosclerotic cardiovascular disease, rheumatoid arthritis, kidney disease, certain types of cancers, dementia/Alzheimer's disease, and adverse pregnancy outcomes - along with the potential effect of periodontal treatment. Examples of what to tell the dental patients about the links between oral health and general health will be generated and shared for clinical application. Attendees will learn about the fluctuating nature of human oral microbiome, and the differences between "association" and "causality". The workshop will be supported by a set of key journal papers that are numbered for easy identification in slides, handouts and a resource site on Google Drive.

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\*Workshop locations may change. Check location on your final documentation

NEW  
EDITION

See **Dr Douglas A Terry LIVE at the Symposium** and have your book personally signed! Reserve your copy today!

#### **Esthetic and Restorative Dentistry: Material Selection and Technique**

Douglas A. Terry & Willi Geller

Restorative dentistry has seen dramatic advances in recent years, especially with the use of digital technologies, and this book provides the most up-to-date information on enhanced developments, materials, and techniques that have emerged since the publication of the second edition, offering the reader a completely updated, revised, and newly illustrated overview of modern esthetic and restorative dentistry complete with tutorial videos. New topics include web-based communication with the laboratory, indirect composite chairside CAD/CAM restorations, a comparison of digital and conventional techniques, the resin composite injection technique, as well as updated information on composites and ceramic systems, including esthetic zirconia.

New cases illustrate the maintenance of esthetic restorative materials, esthetic contouring, immediate dentin sealing, and novel surgical techniques such as lip repositioning, connective tissue grafting, and ridge preservation with collagen membranes. Dr Terry expanded his team of editorial reviewers to include the best minds in research and clinical practice, and the final product is a testament to his dedication to patient satisfaction and treatment success. The techniques demonstrated in this book will no doubt elevate your practice to the next level. 792 pp; approx 2,600 illus;

To reserve copies of any of his books please email [events@henryschein.com.au](mailto:events@henryschein.com.au)





# New Frontiers of Aesthetic Excellence

DAY 3: Sunday 14 October 2018

HALF DAY AFTERNOON WORKSHOPS 1.30PM - 5.30PM

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## Digital Treatment Planning for Restoratively Driven Implant Dentistry

**Dr Rupert S Austin** BDS, MClintDent, PhD & **Dr Deborah Bomfim** BDS, MSc, MJDF, FDSRCS

This workshop will give attendees experience in the use of innovative multi-model digital design for the optimal placement and restoration of dental implants. Using laptop computers with Planmeca Romexis 3D implant planning software, attendees will merge an intra-oral scan into a CBCT with a ProFace scan from 3D stereoscopic photography. They will then design the restoration using Planmeca Romexis PlanCAD Easy software before then bringing in the restoration to the merged 3D data sets and then virtually placing the implant system of their choosing with its abutment, and finally designing the surgical guide ready for printing.

Limited to 10 participants

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## Motivational Mockup - The SKIN (Clones) Concept

**Dr Paulo Kano** DDS, CDT

This half day workshop involves a presentation with one live patient who will serve as the demonstration case for techniques. No irreversible clinical treatment will be performed. There will be a discussion of the theory and implementation of the SKIN (Clones) protocol, including case workup, veneer selection, measurement, model selection, SKIN confection, photography and video recording, documentation of status before and after treatment, and methods for veneer placement.

In this course, you will learn two essential techniques that you can apply in your daily dental office routine.

The first is the Chairside Motivational Mockup. It allows you to create a beautiful smile very quickly because it doesn't need photos, videos, modelling nor waxing-up for diagnosis. In order to do this, you will learn how to create a mockup using only laminated resin veneers, prefabricated at your own office without having to invest in any additional technology. You will be able to design and demonstrate the patient's outcome smile in their first visit, giving them a reliable prediction from the start. This will help you build a more dependable and trustworthy professional relationship with them.

The second technique is the Outsourced Smile Design. In this workflow, the lab technician is responsible for the smile function and aesthetic, reducing clinical time. The dentist needs to send to the laboratory all the digital information about the patient's smile through an oral scan process, photos and videos. Based on all this data the lab designer will choose the most suitable dental morphology - from a digital library of natural teeth especially designed by Dr Paulo Kano - and produce a model ready for you to build an excellent mockup. And if your practice has a complete digital system that includes a 3D printer machine, you can also have the option to receive a digital model from the lab and print it at your own office. This method uses the most current digital dentistry technology and you will be known by it.

These two techniques are very powerful selling tools as they assist you to persuade your new patient to work with you, performing an outstanding functional and aesthetic restoration case in anterior teeth.

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# New Frontiers of Aesthetic Excellence

## Successfully Integrating the Best of Traditional & Digital Dentistry

# Register before 30 June & SAVE!

## How to Register

**Please register online at our website**  
[www.henryschein.com.au/iqs](http://www.henryschein.com.au/iqs)

The 2 day registration fee includes admission to all Symposium sessions and exhibits, daily coffee breaks, lunch and drinks and canapes on the evening of 12 October 2018.

**For Exhibition & Program enquiries contact:**  
 Jessica Chasen: (02) 9697 6239  
[jessica.chasen@henryschein.com.au](mailto:jessica.chasen@henryschein.com.au)

**Cancellations:** Cancellations made in writing and received by Henry Schein Halas before 1 September 2018 will be refunded in full. Cancellations received on or after 1 September 2018 but before the start of the Symposium will be charged a cancellation fee of AUD \$200. No refunds will be made after the Symposium begins on 11 October 2018.

**For Registration enquiries contact:**  
 1300 302 421 [events@henryschein.com.au](mailto:events@henryschein.com.au)

**Register online at:** [www.henryschein.com.au/iqs](http://www.henryschein.com.au/iqs)

**Workshop locations vary. Please check locations before completing your registration and on final paperwork.**

Options	PRIVILEGES Plus Member		Non Member	
	before 30 June 2018	after 30 June 2018	before 30 June 2018	after 30 June 2018
Pre-Symposium 11 Oct	\$595	\$685	\$665	\$740
Symposium Lecture Program 12-13 Oct	\$1450	\$1685	\$1630	\$1815
Full day Workshop 14 Oct	NA	\$1675	NA	\$1675
Half day Workshop 14 Oct	NA	\$785	NA	\$785
	Technicians, Hygienists & Therapists		Students*	
Pre-Symposium 11 Oct	\$450		\$300	
Symposium Lecture Program 12-13 Oct	\$1090		\$725	

\*Please submit verification of student status with this registration form (Undergraduates only)

\*Prices quoted in Australian dollars

\*Prices include GST



## New Frontiers of Aesthetic Excellence

Successfully Integrating the Best of Traditional & Digital Dentistry including an extra Pre-Symposium in-depth day on 11 October 2018



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