

CHICAGO

10th

**Spectrum dialogue
Techno-Clinical Day**

February 24, 2012

Wyndham Chicago
633 N. St. Clair
IL, 60611, USA

Moderators:

Dr. John Sorensen

Domenico Cascione, MDT

Attilio Sommella, MDT

Fernando & Renzo C. Casellini, MDT

Dr. Sillas Duarte Jr.

Paul L. Child Jr. DMD, CDT

Wael Att, DDS, Dr Med Dent, PhD

Luis Macieira, MDT

Lyndon F. Cooper, DDS, Ph.D. & Domenico Cascione, CDT, BS

Daniele Rondoni, MDT

Klaus Muterthies, MDT

Speakers 2012

Spectrum dialogue Techno-Clinical Day - Program at-a-Glance

7:15am Registration

8:17am-8:30am- Moderators: Domenico Cascione, MDT and Dr. John Sorensen

8:30am-9:20am	Dr. Sillas Duarte Jr.	Novel Perspectives in Bonded Ceramic Restorations
9:20am-10:10am	Attilio Sommella, MDT	Mini-invasive Reconstructions. Techno-Clinical Aspects

10:10am-10:40am Coffee Break

10:40am-11:30am	Paul L. Child Jr. DMD, CDT	Is it Time to Switch? Comparing New Ceramics to Conventional and Well-proven Restorations
11:30am-12:20pm	Lyndon F. Cooper, DDS, Ph.D. & Domenico Cascione, CDT, BS	Art and Technique: Inspired by Nature

12:30pm-1:20pm Lunch

1:20pm-2:10pm	Fernando & Renzo C. Casellini, MDT	The Evolution of Implant Esthetics
2:10pm-3:00pm	Luis Macieira, MDT	"Zirconia for All - The Art of Technology"

3:00pm-3:30pm Coffee Break

3:30pm-4:20pm	Daniele Rondoni, MDT	A Selection of New Generation Materials: A Conservative Approach Towards a Prosthetic Solution
4:20pm-5:10pm	Wael Att, DDS, Dr Med Dent, PhD	State-of-the-art Intraoral Digital Impressions
5:10pm-6:00pm	Klaus Muterthies, MDT	Invasive - Minimally invasive - Non-invasive

6:00pm Reception



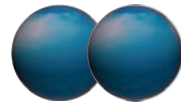
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7:15am – Registration



8:17am – 8:30am – Introduction by Moderators
Domenico Cascione, MDT and Dr. John Sorensen

8:30am – 9:20am – Sillas Duarte, Jr., DDS, MS, PhD
Novel Perspectives in Bonded Ceramic Restorations

Performing successful and satisfying bonded restorations is still dependent on numerous factors, especially with respect to material selection and marginal integrity. This presentation provides a systematic and scientific approach for enhancing bonded esthetic restorations based on original research data with special emphasis on techniques, post-operative sensitivity control, and new materials design and selection.

Learning objectives:

- Indications and limitations of adhesive cementation
- Causes of adhesive failure and their clinical management
- Novel resin nano-ceramic restorative material



Dr. Duarte is Associate Professor, Division of Restorative Sciences, Ostrow School of Dentistry of University of Southern California. He is the editor-in-chief of Quintessence of Dental Technology (QDT), has served on the editorial boards of other journals, and has lectured and published nationally and internationally on esthetic dentistry and adhesion. He has been involved in teaching cutting-edge clinical techniques and technologies related to esthetic and adhesive dentistry.

Dr. Duarte's scientific work has been supported by governmental and commercial grants and he serves as a consultant for several manufacturers. His researches focus on bonding to dental structures, composites, and ceramics.

9:20am – 10:10am – Attilio Sommella, MDT
Veneers- Mini-invasive Reconstructions. Techno-Clinical Aspects

Logic! Only logic. The empirical element is not well accepted today. The frenetic and overwhelming consumerism of modern days leaves no escape and for us, the dental technicians of the third millennium, there is an increasing need for concreteness, a need to transmit safety and peace of mind to the patient, and above all professionalism. In my opinion, prosthetic restoration of compromised dental elements using minimally invasive reconstruction, following a rational logic founded on anatomical and biological knowledge of the natural element, is without doubt the only way to go. The purpose of this lecture is to focus on key stages of implementation, rationally related to bio-anatomical structure of the natural tooth.



Attilio Sommella was born in Pozzuoli (ITA) on May 23rd, 1966. He owns in partnership and manages the Dental Creation SNC prosthetic dentistry laboratory located in Naples. His main focus is with aesthetics in fixed prosthodontics. Attilio has lectured in several Italian universities. He is the author of numerous articles that have been published both in national and international journals. As well, he is the creator of a simplified work system for ceramic. Attilio is also the author of "The Incisal Edge, the strong point in the expression of an incisor" and co-author of the book "Veneers - Mini-invasive Reconstructions. Techno-Clinical Aspects". He is a member of the scientific committee for Dental dialogue and TeamWork and winner of the AIOP - ANTLO "Roberto Polcan" prize (2006).



10:10am – 10:40am Coffee Break



10:40am – 11:30am – Paul L. Child Jr., DMD, CDT

Is it Time to Switch? Comparing New Ceramics to Conventional and Well-proven Restorations

In the last 5 years, fabrication and delivery of PFM restorations (of all types) has decreased to a staggering 36%, while all-ceramics have increased by 43% (includes IPS e.max, full-contoured zirconia, i.e. Bruxzir, and zirconia-based). This rapid change is highly unique for any concept or product category in the dental profession and analysis of this disruptive behavior will be examined. This presentation will:

- Review the new and improved all-ceramic options, including new uses for monolithic high strength ceramic fused to zirconia, IPS. e.max
- Explain how the ceramist and dentists can work as a team to ensure optimum esthetic success, regardless of material chosen
- Provide techniques that are proven for increasing longevity of this category of rapid growth ceramics
- Provide practical based research methods that the ceramist can share with their clinicians for better shade matching



Dr. Child is a Prosthodontist and a Certified Dental Technician (CDT). Dr. Child graduated from Case School of Dental Medicine, completed a Prosthodontic residency at LSU, and maintains a research based practice at the CR Dental Health Clinic in Provo, Utah. He enjoys providing all aspects of dentistry, but primarily focuses on esthetics, implants, complex restorative, CAD/CAM, and all aspects of surgery. He is also a Certified Dental Technician through the National

Board of Certification in Dental Lab Technology, and is a proponent of the importance of the laboratory specialists in dentistry. Dr. Child lectures nationally and internationally to many dental associations, societies, study clubs and universities. He presents on all areas of dentistry, with an emphasis on comparing new and emerging technologies to those products, devices, and techniques that are already well-proven. He writes practical and forthright articles on many topics for numerous journals.

11:30am – 12:20pm – Lyndon F. Cooper, DDS, Ph.D. and Domenico Cascione, CDT, B.S.

Art and Technique: Inspired by Nature

The objective of this lecture is to present a systematic approach based on the technician's expertise of principles and techniques in order to obtain predictable results on challenging implant cases. The presentation will highlight:

- Tissue management criteria on the implant restoration with a novel approach for non-invasive pontic site development
- A case presentation using CAD/CAM technology with Chrome/Cobalt alloy and porcelain build-up technique
- A Titanium bar and Zirconia framework with individual crowns cemented using porcelain build-up and pink composites



Dr. Lyndon F. Cooper is the Chair and Stallings Distinguished Professor of Dentistry of the Department of Prosthodontics at the University of North Carolina at Chapel Hill. He is Immediate Past President of the American College of Prosthodontists as well as the Editor-in-Chief of the ACP Messenger.



Domenico Cascione CDT, BS obtained his primary education in Bari (Italy), where he was also certified as a Dental Technologist (CDT) in 1985. From 1991 to 2004 he carried out metallurgy research becoming a specialist in dental metallurgy. From 1986 to 2004 he was the owner and Director of a Dental Laboratory in Bari (Italy). He specialized in metallurgy, implant work and complex esthetic rehabilitation. Since January 2005, he became Research Associate and Program Director of the Advanced Training for Dental Technology at the Center for Dental Technology, the University of Southern California School of Dentistry. He was a winner of the 2007 Judson C. Hickey Award in the research category in the Journal of Prosthetic Dentistry. He is author and co-author of several articles in the literature.



12:20pm – 1:20pm Lunch



1:20pm – 2:10pm – Renzo and Fernando Casellini, MDT **The Evolution of Implant Esthetics**

Mr. Renzo and Fernando Casellini, Master Dental Technologists, will present an overview of what you can do with implants in all prosthetic situations, whether they are removable, fixed, or hybrid. They will share over 30 years of experience working with more than 65,000 implants combined. They will demonstrate that the combination of esthetics and Biomechanics produces predictably superior restorations. Prosthetic management is a major factor in the success or failure of implant treatment. Inadequate planning, improper selection of a patient or implant system is the most frequent cause of restorative and cosmetic failures. They will also share:

- Newest developing techniques on esthetics and Implants
- Newest techniques in Zirconium abutments, over structures, crowns, and full screw retained restoration in zirconium with white and pink porcelain esthetics from Europe
- Newest technique for removable, fixed, screw retained and cemented implant restorations
- Causes of restorative and cosmetic failures



Renzo C. Casellini, MDT, has received a Mastership from the American Academy of Implant Prosthodontics, the International College of Oral Implantologists, as well as the Alliance of the American College of Prosthodontics. In 2007, he became ICOI/ IPS Certified Implant Prosthetist and Board member. In 2008, Mr. Casellini became Board President of The Implant Prosthodontic Section of the International Congress of Oral Implantologists.

Mr. Casellini has been featured in over 50 professional publications and has been lecturing worldwide on esthetic implant restorations for the last 24 years. Mr. Casellini has been servicing dentists and their patients throughout the USA and worldwide during 33 years of ownership of Swiss Quality Dental Ceramics and Dental Implant Studio in Los Angeles, CA.



Fernando Casellini, was born on January 27th, 1950. He has been a dental technician since 1970. He is an honorary member of the College of Implantology, Switzerland and a member of the VZLS. His specialization lies in Aesthetics and Function with Zirkonzahn, and Dental Implant Restorations.

2:10pm – 3:00pm – Luis Macieira, MDT

“Zirconia for All - The Art of Technology”

Over the past years different approaches have lead to different results and perceptions of the limits of use for Zirconia. This fantastic material is nowadays much more than a framework material. Controversial aspects of the use of the material were not sometimes clarified because of lack of experience but also because of a non-specialized approach and as a result some myths were developed. Now it's time to clarify them all.

CAD-CAM is now providing state-of-the-art results with incredible control and easiness of use leaving time and dedication to the creative part of the dental technician's work.

The perfect marriage between materials and CAD-CAM technology will definitely stand out the fact that some of the techniques we were using a few years ago are now no more than pre-historical and that there is no way back.



Luis Macieira, MDT, graduated as a dental technician at FMDUL - Lisbon University in 1993. He travelled through Europe to work and complete his technical education in several laboratories in different countries. During several residencies and courses he worked with renowned dental technicians such as, Michel Magne, Naoki Aiba, Claude Sieber, Luc Rutten, Oliver Brix, Enrico Steger, etc. He studied photography in London and he is the founder and director of

DentalRéplica, Lda. laboratory in Lisbon. He has been invited to be a speaker for several companies especially on implantology issues and other laboratory technical issues. He has lectured both nationally and internationally.



3:00pm – 3:30pm Coffee Break



3:30pm – 4:20pm – Daniele Rondoni, MDT

A Selection of New Generation Materials: A Conservative Approach

Towards a Prosthetic Solution

The need of an aesthetic approach to treatments has taken an ever increasing role in dentistry and has eventually determined an ever growing commitment to lab research and the evolution of composite materials. These efforts have made it possible for the careful clinician to achieve ideal aesthetic results and, above all, to guarantee long-lasting, reliable restorations. Composite materials, when carefully and correctly selected, must be considered the materials “par excellence” in a dental restoration, not only for aesthetic reasons, but also for their peculiar physical/mechanical features.



Daniele Rondoni, born in Savona in 1961, lives and works in his hometown where he has been the manager and director of his own laboratory since 1982. He got his Dental Technician Degree at “P. Gaslini” Professional Institute in Genoa in 1979 and still operates in the field of professional training as a teacher and counsellor for the Italian School for Dental Technicians. Particularly devoted to the study of morphology and dental aesthetics, he actively collaborates to the development of materials used for aesthetic dental restorations. He authored the text “Ceramic Multilayering Technique” and a

lab manual about the use of composite materials, aimed at establishing working protocols for both indirect technique and composite pressing on metal structures and implants and thus introducing his own method, named “Inverted Layering System”.

4:20pm – 5:10pm – Wael Att, DDS, Dr Med Dent, PhD

State-of-the-art Intraoral Digital Impressions

The goal of intraoral digital impressions is precise data acquisition with the least materials and effort needed. Compared to the conventional approach, the currently available digital impression systems claim to provide faster and more accurate impressions, enabling the fabrication of high quality restorations more efficiently and thus provide a higher level of patient care. Although the current intraoral digital impression systems depict some limitations, they are considered as a blueprint for future developments. This presentation will provide an overview about contemporary intraoral impression systems, discuss their possibilities, advantages and limitations in the digital workflow and provide insights about future developments.



Wael Att, DDS, Dr Med Dent, PhD, received the DDS degree in 1997. In 2000, he joined the postgraduate training program in the Department of Prosthodontics, University of Freiburg and received the Dr. Med. Dent. degree in 2003. He was then appointed as an assistant professor and became a board-certified prosthodontist in 2004 from the German Society for Prosthetic Dentistry and Biomaterials (DGPro). In 2010, Dr. Att received the PhD degree from the University of Freiburg. He has contributed to many publications focusing on implant therapy and basic science in the most respected journals in these fields. His recent research work about the discovery of biological aging and rejuvenation of implant surfaces was honored by listing under “Images of the Year-2009” by Biomaterials journal.

5:10pm – 6:00pm – Klaus Mütterthies, MDT

Invasive - Minimally Invasive - Non-invasive

The lecture gives an insight on the great art of ceramic shaping, accompanied by the philosophy of another dimension of esthetics. Klaus Mütterthies has illustrated how psychological mechanisms can evolve, that have a soothing and especially a persuading effect. The illustration of numerous cases, in which the important aspects of dentistry are taken into account, highlights the committing and unconventional paths that are taken: then correct the remaining part of the sentence to minimally invasive and non-minimally are in the center of our efforts.

Nature-orientation, enthusiasm and perfect techniques are the requirements. Brilliant tissue-influencing and full-ceramic with CERCON make the base.



Klaus Mütterthies was born in 1943 in Gütersloh, Germany. Educated as a dental technician. Klaus Mütterthies has his own laboratory, which he uses for experimental work and for postgraduate courses. He has been invited to hold courses abroad in USA, Canada, Australia, Japan, Asia and most European countries. From 1991-1992 he had a teaching assignment at the Private University Witten/Herdecke. Klaus Mütterthies is the author of 5 books and 3 video films published by Quintessence, Berlin. He has published one book “Ceramic work” independently. He is a Member of the European Academy of Esthetic Dentistry.



6:00pm Reception



Spectrum dialogue Techno-Clinical Day 2012 Registration Form

Early Bird Registration: Valid until January 31, 2012

- 2 for 1 Special: \$199.00 USD (Valid only on telephone orders)
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