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16th Annual Conference of the Society for Color and Appearance in Dentistry (SCAD)

scientific evidence
for clinicians, clinical
relevance for researchers

SCAD

Society for Color
and Appearance
in Dentistry

Oct 10-11, 2025
Novotel Hotel, Miami, FL

PROGRAM BOOK

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scientific evidence for clinicians, clinical relevance for researchers

SCAD

Society for Color and Appearance in Dentistry

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Recommended Attire

Welcome Reception and Educational Session - Business casual
President's Dinner - Miami Vice, 80's theme

Event Venues

Board Meeting - *Optimism Room*, lobby level
Welcome Reception - *Lima restaurant*, lobby level
Breakfast and Lunch and President's Dinner - *Skyline Ballroom*, 12th floor
General Session - *Brickell Ballroom*, lobby level
Poster Display - *Foyer outside Brickell Ballroom*, lobby level
Sponsor Tables - *Foyer outside Brickell Ballroom*, lobby level

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A Message from the President

Dear Colleagues,

The Executive Board of the Society for Color and Appearance in Dentistry (SCAD) cordially welcomes you to our 16th Annual Conference..

The meeting features high-quality, evidence-based information on color and esthetic dentistry, presented by many of the leaders in this field (up to 13.5 CE hours).

We look forward to sharing the information and passion with you!

Sabiha S. Bunek, DDS
President, SCAD

Program

Thursday, October 9, 2025

6:00-7:30 pm *SCAD Executive Board Meeting*

7:30-9:00 pm Welcoming Reception

Friday, October 10, 2025

7:00-8:00 am *Breakfast*

8:00-8:15 am Opening Ceremony

8:15-8:55 am Paulo Kano
Unveiling Additive and Subtractive Color Systems

9:00-9:40 am Nadim Baba
Restoring Esthetics and Function in Complex Implant Rehabilitations: Considerations for Long-term Success

9:45-10:25 am Effie Habsha
Digital Veneers Reimagined: Predictable Outcomes through Advanced Collaboration and Technology

10:25-11:15 am *Break*

11:15-12:00 pm Julián Conejo
Recommendations on Single Indirect Restorations Made from Ceramic and Nonmetallic Biomaterials for Posterior Teeth

12:00-1:00 pm *Lunch*

1:00-1:45 pm *Posters (oral presentations, main podium)*

1:45-2:25 pm Gilbert Young
Creating Natural Beauty through Esthetic Illusion: How Shape, Surface, and Ceramics Solve Every Day, Real-World Laboratory Challenges

2:30-3:10 pm Milos Miladinov
Dental Photography - Shoot Like Pro from Theory to Click

3:10-3:35 pm *Break*

3:35-4:15 pm Markus B. Blatz
The Cantilever Zirconia Resin Bonded Bridge - Where, When, and How

4:20-5:00 pm Stephen J. Chu
Maxillary Anterior Implants: Navigating Treatment Planning Options in the Esthetic Zone

7:00-10:00 pm *President's Dinner*

Saturday, October 11, 2025

7:00-8:00 am *Breakfast*

8:00-8:40 am Rodrigo Maia
Seeing the light:
Evidence-based Strategies to Enhance Longevity and Natural Appearance of Direct Composite Restorations

8:45-9:25 am Wael Att
Digital Workflow in Reconstructive Dentistry

9:30-10:10 am Jennifer Haddad
Minimally Invasive Solutions for the Esthetic Zone

10:15-10:55 am Aki Yoshida
Surface Texture: A Systematic Approach for Accurate and Effective Communication

10:55-11:20 am *Break*

11:20-12:00 pm Taiseer A. Sulaiman
Indirect Restorative Considerations for Tooth Rehabilitation in the Esthetic Zone

12:05-12:45 pm Adamo E. Notarantonio
Image(s) Everything… the Power of the Digital Camera

12:50-1:30 pm Ernesto Lee
Staged Esthetic Crown Lengthening: Rationale and Surgical/Restorative Implementation

1:35 pm *Closing Ceremony*

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Paulo Kano, DDS

Dr. Paulo Kano is a dentist, dental prosthetics technician, master in implantology, professor, and renowned national and international lecturer. Founder of the Paulo Kano Institute, he is a co-author of globally recognized books and scientific articles. His teaching career began with courses on sculpture and occlusion, leading to the publication of the book Challenging Nature. Dedicated to excellence in aesthetic and restorative dentistry, he developed innovative techniques such as the Cllones method, SKIN Concept, Anatomic Shell Technique (AST), 3D Magic Makeup, and Flapless Surgery. In addition to teaching courses on digital planning, aesthetic surgery, dental preparation, dental sculpture, ceramic staining and oral rehabilitation, he served as president of SBODigital, contributing to the advancement of digital dentistry. Dr. Kano continuously refines his techniques, integrating technology and artistry to replicate nature with precision. He passionately shares his knowledge, inspiring dentists and technicians to achieve excellence in both aesthetics and function.

Oral Presentations

Friday, October 10
8:15-8:55 am

Unveiling Additive and Subtractive Color Systems

Paulo Kano, DDS

Lecture Description

The study of pigment color introduces innovative color strategies that enable dental professionals to create highly realistic and natural-looking ceramic restorations. By understanding the principles of the interaction between additive and subtractive color systems you can reveal the complexity of the relationship between light and matter, expanding the horizons of art and science. The structure of pigments determines their ability to absorb and reflect light, shaping a rich and diverse chromatic spectrum. As a result, advances in nanotechnology and materials science enable the creation of vibrant, durable, and sustainable colors. At the same time, nanostructural engineering enhances optical properties elevating the aesthetic potential of ceramic restorations.

Delving into the concepts and mastering the fundamentals of hue, value, and chroma means uncovering the principles that allow for the precise replication of nature, transcending mere reproduction and imparting an exceptional degree of authenticity and sophistication to restorations.

Objectives:
[1] New concepts of pigmentary color;
[2] Solid and Molecular nature of the subtractive color system;
[3] Practically understanding the effects of opalescence.

Oral Presentations

Friday, October 10
9:00-9:40 am

Restoring Esthetics and Function in Complex Implant Rehabilitations: Considerations for Long-term Success

Nadim Baba, DMD

Lecture Description

Restoring function and esthetics in complex implant rehabilitations presents significant challenges that require careful consideration of multiple factors for long-term success. The essential components involved in the restoration process, including implant position, prosthetic design, and material choices will be discussed. Emphasis is placed on the importance of proper planning, biomechanics, and occlusion. By analyzing current research and clinical practices, this presentation will provide valuable insights into strategies for improving the success rates of implant rehabilitations, ensuring both functional stability and esthetic satisfaction over time. The importance of a multidisciplinary approach, regular follow-up care, and adaptive treatment protocols will be discussed to address evolving patient needs and mitigate complications, ultimately promoting sustained restoration and function.

Objectives:

[1] Discuss the strategies for improving the success rates of implant rehabilitations, ensuring both functional stability and esthetic satisfaction over time;

[2] Review the importance of proper planning, biomechanics and occlusion for a long-term success of a restoration;

[3] Review relevant scientific principles and clinical procedures required to create an ideal esthetic and functional treatment plan.

Nadim Baba, DMD

Dr. Nadim Z. Baba received his DMD degree from the University of Montreal in 1996. He completed a Certificate in Advanced Graduate Studies in Prosthodontics and a Masters degree in Restorative Sciences in Prosthodontics from Boston University School of Dentistry in 1999. Dr. Baba serves as a Professor in the Advanced Education program in Prosthodontics at Loma Linda University School of Dentistry, and maintains a part-time private practice in Glendale, CA.

He is past president of the American College of Prosthodontists, a Diplomate of the American Board of Prosthodontics and a Fellow of the American College of Prosthodontists and the Academy of Prosthodontics.

Dr. Baba authored numerous publications including a book entitled "Restoration of Endodontically treated teeth: evidence based diagnosis and treatment Planning" and has lectured nationally and internationally..

Effie Habsha, BSc, DDS, Dip Prostho, MSc, FRCD(C)

Dr. Effie Habsha earned her DDS, Diploma in Prosthodontics and Master of Science degrees from the University of Toronto. She is an Adjunct Assistant Professor at the Department of Dentistry, Eastman Institute for Oral Health at the University of Rochester Medical Center. Dr. Habsha has served as an Assistant Professor at the University of Toronto and currently instructs both at the undergraduate and graduate level in Prosthodontics at U of T. She is a Resident Faculty member at Spear Education and is also the founder of Women in Dentistry: Work.Life.Balance, a group created in 2010 which aims to educate, empower and connect all women in the dental field. Dr. Habsha maintains a private practice limited to Prosthodontics in Toronto and lectures nationally and internationally on various prosthodontic and surgical topics.

Oral Presentations

Friday, October 10
9:45-10:25 am

Digital Veneers Reimagined: Predictable Outcomes through Advanced Collaboration and Technology

Effie Habsha, BSc, DDS, Dip Prostho, MSc, FRCD(C)

Lecture Description

Mastering the intricacies of porcelain veneer esthetics demands precise planning, collaboration and cutting-edge digital techniques. This presentation will demonstrate an advanced approach to digital veneer workflows, including initial digital treatment planning, clinical workflows and shade matching through innovative, technology-driven solutions. Attendees will gain insights into leveraging the precision of various shade selection tools, both analog and digital. The presentation will also showcase the integration of shade navigation applications which aid in material selection, as well as innovative 3D-printed models which aid in achieving unprecedented accuracy in predicting and achieving the final esthetic outcome.

Objectives:

[1] Incorporation of digital smile design concepts into treatment planning;

[2] Exploration of digital shade selection tools;

[3] Utilization of digital workflows for predictable outcomes.

Oral Presentations

Friday, October 10
11:15-12:00 pm

Recommendations on Single Indirect Restorations Made from Ceramic and Nonmetallic Biomaterials for Posterior Teeth

Dr. Julián Conejo, DDS, MSc

Lecture Description:

The main objective of this lecture is to present evidence-based recommendations for selecting between direct and indirect restorations on a case-by-case basis, favoring partial coverage restorations like inlays and onlays over crowns to align with minimally invasive dentistry principles.

This lecture highlights the critical role of selecting restorative biomaterials based on clinical performance, esthetic properties, and adherence to manufacturer guidelines. The importance of precision in restorative procedures, including tooth preparation, impression taking, contamination control, and luting will be discussed.

Regular follow-up and maintenance tailored to individual patient needs are crucial for the longevity of ceramic and nonmetallic restorations for posterior tooth and implant-supported restorations.

Objectives:

[1] Presenting evidence-based recommendations for selecting between direct and indirect restorations on a case-by-case basis;

[2] Advantages of partial coverage restorations like inlays and onlays over crowns to align with minimally invasive dentistry principles;

[3] Emphasizing critical role of selecting restorative biomaterials based on clinical performance, esthetic properties, and adherence to manufacturer guidelines.

Dr. Julián Conejo, DDS, MSc

Dr. Conejo is the Clinical CAD/CAM Director at the Department of Preventive and Restorative Sciences, University of Pennsylvania School of Dental Medicine, Philadelphia PA, USA. He conducts research and has multiple publications in peer-reviewed scientific journals on CAD/CAM technology, prosthodontics and implant dentistry. Dr. Conejo has been the recipient of several awards in his field, to include the ICP Research Fellowship in Dental Restorative Materials. He has lectured in over 35 countries and has over 40 publications on topics related to esthetic and implant dentistry.

Gilbert Young, CDT, MDT

Mr. Gilbert Young, CDT is a graduate of the University of North Texas and has been engaged in dental technology since 1984. He studied dental ceramics under Asami Tanaka at the Tanaka Dental Technology Institute in Chicago and pursued advanced training with renowned masters such as Makoto Yamamoto and Klaus Muterthies. In 1990, he received first prize in Dentsply's National Laboratory Award for Ceramic Artistry. Two years later, he founded GNS Dental Studio, Inc. in Dallas, Texas—an elite laboratory dedicated to esthetic and implant restorative solutions. Mr. Young has lectured throughout the U.S., Canada, Latin America, and Europe, including presentations for several prestigious dental academies and Universities. A strong advocate for mentorship, he has helped develop the next generation of dental technicians through hands-on training and educational programs. He is an Accredited Member of the American Academy of Cosmetic Dentistry and an Associate Member of the American Academy of Esthetic Dentistry. Outside of dentistry, Mr. Young is principal clarinetist with the Irving Symphony Orchestra.

Oral Presentations

Friday, October 10
1:45-2:25 pm

Creating Natural Beauty Through Esthetic Illusion: How Shape, Surface, and Ceramics Solve Every Day, Real-World Laboratory Challenges

Gilbert Young, CDT, MDT

Lecture Description:

The esthetic cases that arrive in a specialty dental laboratory are rarely straightforward or ideal. While patients often focus on shade matching or whitening as their primary concerns, achieving truly convincing outcomes goes far beyond color alone. In reality, many of these restorations succeed—or fail—based on the illusion of natural tooth structure under less-than-perfect conditions. The ability to create this illusion relies on a deep understanding of shape, surface texture, and material behavior—tools that must be applied skillfully, sometimes instinctively, and always in harmony. Whether managing discoloration, asymmetry, aging dentition, or challenging substrates, the integration of contour, light diffusion, and optical ceramic properties becomes essential. This presentation will explore how dental technicians and clinicians can work together to overcome common esthetic obstacles by focusing not only on matching—but on designing restorations that belong in the smile.

Objectives:

[1] Recognize the principles of perception of natural esthetics, and apply them to enhance harmony;

[2] Understand the role of surface texture and gloss in light diffusion;

[3] Compare the optical properties of commonly used ceramic materials.

Oral Presentations

Friday, October 10
2:30-3:10 pm

Dental Photography - Shoot Like Pro from Theory to Click

Milos Miladinov, CDT

Lecture Description:

Dental photography is used on a daily basis in every dental office worldwide. Still, some photos look better than others, and some cases look better than others. This lecture will show how to master dental photography and become the best version of yourself in dental photography. The lecture will focus on the main specific settings, equipment, and accessories needed, and intraoral, portrait, and close-up dental photography. The second part of the presentation will address the usage of the photos to achieve amazing content for social media and creating it in less than a minute. It will also discuss how dental photography is used in Facebook, Instagram, websites, and much more.

Objectives:

[1] Mastering intraoral, portrait, and close-up dental photography;

[2] Specific settings, equipment, and accessories for high-quality dental photography;

[3] Dental photography in social media.

Milos Miladinov, CDT

Milos Miladinov obtained a CDT degree in 2001. He collaborated with several dental companies and published photos in many professional magazines. He founded the brand "Shoot like a pro" and a new dental training center, "Ugly Tooth." Focusing on innovation and education in the dental industry, he developed a new workflow for digital dentistry called FDW. Milos is a member of the Scientific Committee of the European Academy of Digital Dentistry. In 2023, he relocated to the US and started Dental Lab Miami & Miami Dental Academy in Hollywood, FL.

Oral Presentations

Friday, October 10
3:35-4:15 pm

The Cantilever Zirconia Resin Bonded Bridge Where, When, and How

Markus B. Blatz, DMD, PhD

Lecture Description:

Zirconia has become the material of choice for a variety of indirect all-ceramic restorations ranging from single units to full-mouth reconstructions. Current high-translucent and multi-layer options offer excellent optical, physical, and biological properties for a multitude of indications. The zirconia-based resin bonded bridge (ZRBFDP) is a proven, yet widely unknown, minimally invasive treatment option to replace missing anterior teeth. For long-term clinical success with ZRBFDPs, a deep understanding of fundamental clinical and laboratory parameters from case selection, abutment tooth preparation, restoration material and design, and, most important, proper resin bonding protocols, is essential. Numerous clinical studies have shown that ZRBFDPs, which rely exclusively on adhesive bonds, have extremely high clinical long-term success rates. This presentation will provide a deeper understanding of ZRBFDPs as a reliable treatment option and offer solutions for cementation and bonding that, based on the latest research, will provide long-term successful outcomes.

Objectives:

[1] Understand the concept of cantilever zirconia resin bonded bridges and clinical indications;

[2] Learn about successful resin bonding methods and materials for ZRBFDPs;

[3] Comprehend clinical and laboratory guidelines for long-lasting esthetic ZRBFDPs, from treatment planning to preparation, restoration design and insertion.

Markus B. Blatz, DMD, PhD

Dr. Markus B. Blatz is Professor of Restorative Dentistry, Chairman of the Department of Preventive and Restorative Sciences, and Assistant Dean for Digital Innovation and Professional Development at the University of Pennsylvania School of Dental Medicine in Philadelphia, Pennsylvania. Dr. Blatz graduated from Albert-Ludwigs University in Freiburg, Germany, and was awarded additional Doctorate Degrees, a Postgraduate Certificate in Prosthodontics, and a Professorship from the same University.

Dr. Blatz is co-founder and past President of the International Academy for Adhesive Dentistry (IAAD) and a founding member of the European Academy of Digital Dentistry (EADD). He is a board-certified Diplomat in the German Society for Prosthodontics and Biomaterials (DGPro) and a member and fellow of multiple other professional organizations, including the American Academy of Esthetic Dentistry, the European Academy of Esthetic Dentistry, and the International College of Prosthodontists. Dr. Blatz is Editor-in-Chief of Compendium of Continuing Education in Dentistry, Associate Editor of the Journal of Esthetic and Restorative Dentistry and Associate Editor of Quintessence International, Section Editor of the International Journal of Prosthodontics. He is coauthor of the international bestseller "evolution – contemporary protocols for anterior single-tooth implants". Dr. Blatz is the recipient of multiple teaching and research awards and has published and lectured extensively on dental esthetics, restorative materials, and implant dentistry.

Oral Presentations

Friday, October 10
4:20-5:00 am

Maxillary Anterior Implants: Navigating Treatment Planning Options in the Esthetic Zone

Stephen J. Chu, DMD, MSD, CDT

Lecture Description

With the advent of advanced treatment protocols and techniques as well as an understanding of how biology can affect esthetic outcomes, multiple implants can be a reality under the right circumstances. However, the decision-making process for the best patient treatment outcomes involves considering the patient's needs and clinical situation. Key issues in the esthetic zone such as a staged serial extraction or immediate implant placement approach will be outlined.

Lastly, treatment planning two adjacent central incisors as well as the central-lateral incisor dilemma will be addressed through research and clinical examples.

Objectives:

[1] Management of implants placed into extraction sockets;

[2] Understand what implant complications and risks in the esthetic zone;

[3] Understand the importance of provisional restoration fabrication in papillae preservation.

Stephen J. Chu, DMD, MSD, CDT

Stephen J. Chu is a Former Adjunct Clinical Professor at New York University College of Dentistry in the departments of periodontology, implant dentistry, and prosthodontics. He maintains a private practice in fixed prosthodontics, esthetic, and implant dentistry in New York City.

Dr. Chu has contributed over 100 publications including 7 textbooks in the dental literature and has given lectures nationally and internationally on the subjects of esthetic, restorative, and implant dentistry.

Dr. Chu serves as the Associate Editor of the Journal of Esthetic and Restorative Dentistry.

Rodrigo Maia, MSD, PhD

Dr. Maia is a clinical associate professor and the director of continuing dental education at the University of Michigan - School of Dentistry. He holds a Certificate in Operative Dentistry and in Periodontology from the Brazilian Air Force. Also, He earned an M.S. and Ph.D in Restorative Dentistry from the Rio de Janeiro State University, Brazil and completed his postdoctoral training at the UIOWA - Dows Institute of Dental Research. He served as a Co-Director of the Advanced Education Program in Operative Dentistry at the UIOWA from 2015-2020.

As a clinician and a scientist his research goal is to blend basic science and cutting-edge technology to expand interdisciplinary collaborations aiming to enhance the knowledge in the area of light interaction in dental tissues/biomaterials and seek for new standards to allow clinicians to achieve restorations with light properties that closely replicate the natural appearance of dental tissues.

Oral Presentations

Saturday, October 11
8:00-8:40 am

Seeing the light: Evidence-based Strategies to Enhance Longevity and Natural Appearance of Direct Composite Restorations

Rodrigo Maia, MSD, PhD

Lecture Description:

This presentation aims to emphasize the critical role of light energy, photopolymerization techniques, and postcuring processes in the final outcomes of direct bonded composites. The program will propose an evidence-based protocol to ensure consistent, high-quality, and long-lasting natural results, with the goal of equipping participants with the knowledge and skills required to achieve superior aesthetic outcomes and cost-effective solutions in direct composite restorations.

Objectives:

[1] Understand the impact of light energy and biophotonics in advancing modern dental practices;

[2] Execute proper light-curing technique for optimal direct composite build-ups outcomes;

[3] Develop a clinical protocol for achieving consistent, high-quality and long-lasting natural results with direct composite restorations.

Oral Presentations

Saturday, October 11
8:45-9:25 am

Digital Workflow in Reconstructive Dentistry

Wael Att, DMD, PhD

Lecture Description:

The progressive shift towards implementing digitally-driven technology in reconstructive dentistry is obvious. Compared to conventional methods, the ultimate goal of digital technologies is to improve the quality and capabilities in examination, diagnosis, and treatment of the dental patient. It is still questionable, however, whether such digital tools facilitate improved accuracy in data acquisition and assessment, superior efficacy in treatment planning, and more controlled and faster manufacturing process. This presentation will provide an overview about disruptive technologies in dentofacial rehabilitation and discuss different possibilities and advantages when using a conventional or a digital workflow.

Objectives:

[1] To provide an overview about the contemporary digital workflow;

[2] To compare the digital workflow with the conventional approach;

[3] To demonstrate how different digital tools can be combined for the treatment of comprehensive cases.

Wael Att, DMD, PhD

Dr. Att is a Professor and Chairman of the Department of Prosthodontics, Tufts University School of Dental Medicine. He is also a Professor of Prosthodontics at the School of Dentistry, University of Freiburg, Germany. Dr. Att is board-certified prosthodontist from the German Society of Prosthodontics and Biomaterials (DGPro) and an active member of the European Academy of Esthetic Dentistry (EAED). He serves as President of the International Academy for Digital Dental Medicine (IADDM), Past-President of the Prosthodontics Group of the International Association for Dental Research (IADR) as well as President of the Arabian Academy of Esthetic Dentistry (ARAED). Dr. Att obtained his DDS degree in 1997 and received the Dr Med Dent (2003) and PhD (2010) degrees as well as the title of extraordinary professor (2013) from the University of Freiburg. He was a Visiting Assistant Professor from 2005 to 2007 at the Weintraub Center for Reconstructive Biotechnology, UCLA School of Dentistry and the Director of Postgraduate Program in Prosthodontics in Freiburg from 2007 to 2017. Dr. Att's teaching and clinical activities focus on perio-prosthetic rehabilitation of multidisciplinary cases as well as the implementation of digital technologies in reconstructive dentistry.

Oral Presentations

Saturday, October 11
9:30-10:10 am

Minimally Invasive Solutions for the Esthetic Zone

Jennifer Haddad, DDS

Lecture Description

This presentation will explore minimally invasive treatment options for the esthetic zone, focusing on preserving natural tooth structure while achieving optimal esthetic outcomes. We'll cover key aspects of case design and treatment planning, including material selection and color matching, to ensure seamless integration with natural dentition. Additionally, we'll walk through the clinical workflow, from initial assessment to final delivery, providing practical insights and strategies for predictable, high-quality results. Whether you're refining your approach or looking to enhance your restorative skills, this session will offer valuable tools for achieving esthetic excellence with today's most updated minimally invasive protocols.

Objectives:

[1] Case design and treatment planning minimally invasive cases;

[2] Additive treatment options and work flow;

[3] Updates on material and color selection.

Jennifer Haddad, DDS

Dr. Jennifer Haddad is a biomimetic and restorative dentist based in Beverly Hills/West Hollywood area of California, who is passionate about combining clinical excellence with a strong commitment to education. Dr. Haddad earned her DDS at the Herman Ostrow School of Dentistry at USC while receiving multiple national academic honors, including recognition from Omicron Kappa Upsilon and the prestigious Academy of Operative Dentistry Award for outstanding achievement. She has also been distinguished with the Clifton O. Dummett/Nicola Malik Ethics Award for her dedication to ethical practice and professionalism.

As a former faculty member at USC, she assisted Dr. Pascal Magne in teaching dental morphology, function and esthetics. Dr. Haddad currently serves as Resident Faculty at Magne Education in Beverly Hills. She is a Key Opinion Leader for GC America and DMG and has been actively involved with the LA Dental Symposium for over 11 years, where she currently holds a position on the Board as Public Relations. In addition, she is an evaluator with Dental Advisors. Dr. Haddad's unwavering dedication to her craft and her community underscores her exceptional abilities as a leader in the field of dentistry.

Oral Presentations

Saturday, October 11
10:15-10:55 am

Surface Texture: A Systematic Approach for Accurate and Effective Communication

Aki Yoshida, RDT

Lecture Description

Form and color are key factors in esthetic restoration. However, mere shade matching in not enough. The interaction of light with the most superficial layer of the restorations surface texture is responsible for making restorations blend with the natural dentition.

Between clinician and technician communication is paramount of success. If accurate surface texture descriptions are not provided, the result is left to the technician's imagination, making success a game of odds.

This lecture describes the intricate components of surface texture of natural teeth and presents an easy-to-use system to improve the communication between clinician and dental technician to obtain predictable esthetic results.

Objectives:

[1] Understand morphologic tooth surface elements;

[2] How to systematically communicate the surface texture;

[3] How to re-create the surface texture on the final restorations.

Aki Yoshida, RDT

Aki is owner-operator of Gnathos Dental Studio in Weston, Massachusetts USA. The laboratory, originally founded by Dr. Lloyd L. Miller, is an innovative, quality driven dental lab consistently producing the highest level of dental restorations.

He is Fellow/ Executive Board Members of the AAED. Also, past president of SCAD 2019~2021.

He also instructor for Kuraray Noritake Dental Supply.

Aki has presented numerous hands-on courses and lectures throughout the United States, South America, Europe and Asia.

Oral Presentations

Saturday, October 11
11:20-12:00 am

Indirect Restorative Considerations for Tooth Rehabilitation in the Esthetic Zone

Taiseer A. Sulaiman, DDS, PhD

Lecture Description:

Ceramics have been used to restore teeth in the esthetic zone for decades. Evidence supporting long-term esthetic outcomes is limited, leaving clinicians unsure which procedure and material is more reliable. Also, can artificial aging methods and in vitro studies provide insight into esthetic longevity?

Optimizing the clinical and esthetic outcomes of ceramic-based restorations, where understanding their optical characteristics, necessary tooth preparation design, and bonding procedure is critical to their longevity.

Objectives:

[1] Learn about the indirect restorative materials available for tooth rehabilitation in the esthetic zone, as well as how they compare to the optical properties of natural teeth;

[2] Classify ceramic materials used for esthetic tooth rehabilitation, their optical properties;

[3] Discuss bonding protocols and how to achieve the most desirable outcome.

Taiseer A. Sulaiman, DDS, PhD

Taiseer A. Sulaiman is a Tenured Associate Professor and the Director of the Advanced Operative Dentistry and Biomaterials Research at the Adams School of Dentistry, University of North Carolina at Chapel Hill, where he earned his clinical certificate in Operative Dentistry and his PhD in Dental Materials from the Department of Prosthetic Dentistry and Biomaterial Sciences at the University of Turku in Finland in collaboration with the Department of Operative Dentistry at UNC. Dr. Sulaiman is a wet-handed clinician and a researcher who is passionate about bridging the gap between dental research and clinical application. Dr. Sulaiman's research focus is on dental ceramics, adhesion, cements, color and appearance in dentistry, and biomimetics. He has published over 90 peer-reviewed articles, abstracts, and book chapters. He is a fellow of the International College of Dentists and a member of many academies, including the prestigious American Academy of Restorative Dentistry and the Academy of Operative Dentistry. He serves as the clinical and scientific ambassador for the Dental Advisor. He has presented on numerous national and international stages and serves as a reviewer for many peer-reviewed journals.

Oral Presentations

Saturday, October 11
12:05-12:45 pm

Image(s) Everything… the Power of the Digital Camera

Adamo E. Notarantonio, DDS, FICOI, FAACD

The digital camera is, without a doubt, the most essential tool in my dental toolbox. In this lecture, we'll explore why photography is invaluable in modern dentistry. From legal documentation and patient communication to self-assessment and marketing, the ability to capture high-quality images is indispensable. We'll also break down the essential equipment, settings, and accessories that simplify the process of taking precise and effective clinical photos. Finally, we'll highlight the critical role photography plays in lab and shade communication, ensuring the highest level of esthetic excellence in restorative dentistry.

Objectives:

[1] Why the digital camera is a MUST in your arsenal;

[2] Equipment, settings and accessories to simplify taking day to day photos;

[3] Tips and tricks for shade and lab communication to achieve esthetic excellence.

Adamo E. Notarantonio, DDS, FICOI, FAACD

Dr. Adamo Notarantonio is a graduate of the State University of New York at Stony Brook School of Dental Medicine (2002), where he received honors in both removable and fixed prosthodontics.

His memberships to professional organizations include the American Academy of Restorative Dentistry, the American Academy of Cosmetic Dentistry, the American Equilibration Society, the International Congress of Oral Implantologists, the Academy of General Dentistry, and the American Dental Association.

Dr. Adamo was Accredited by the American Academy of Cosmetic Dentistry in 2011, and received his Fellowship in the AACD in 2018. He is the immediate Past President of the AACD, Credential Examiner and current Fellowship Chairman.

Dr. Adamo is a graduate and faculty of the Kois Center. He has received his fellowship in the International Congress of Oral Implantologists. Dr. Adamo has been published in multiple dental journals and lectures nationally and internationally on such topics as CAD/CAM dentistry, implant dentistry, cosmetic dentistry, composite dentistry, rubber dam isolation and dental photography.

Dr Adamo is the co-founder, along with Dr Amanda Seay, of the imPRES Lecture series in Charleston, SC.

Dr. Adamo is an avid golfer, a sommelier and is also fluent in Italian.

Ernesto Lee, DMD

Dr. Ernesto Lee is a clinician and educator with 20+ years of academic and private practice experience. He was formerly a Clinical Professor and Director of the Postgraduate Periodontal Prosthesis Program and the Postgraduate Implant Fellowship, at the University of Pennsylvania School of Dental Medicine. He is the author of several journal publications, book chapters, and the 3rd edition of Dr. Ronald Goldstein's Esthetic in Dentistry textbook. He has dictated over 300 lectures and courses nationally and internationally.

Dr. Lee is the developer of the S.M.A.R.T. Method, a novel Minimally Invasive Bone Grafting procedure that enhances esthetics and decreases complications; for which he has been granted multiple patents. His practice is located in Bryn Mawr, Pennsylvania; a suburb of Philadelphia.

Dr. Lee is the current President of the Greater New York Academy of Prosthodontics, and a recipient of an Honorary Member Award from the American College of Prosthodontics

Oral Presentations

Saturday, October 11
12:50-1:30 pm

Staged Esthetic Crown Lengthening: Rationale and Surgical/Restorative Implementation

Ernesto Lee, DMD

Lecture Description:

When esthetic crown lengthening is performed as an adjunct to restorative therapy, the surgical approach must be determined by the anticipated position of the restorative margins. Inadequate surgical management will result in delayed healing, coronal rebound of the soft tissues, and biologic width impingement. The use of a restorative-driven surgical guide ensures sufficient bone removal to achieve the desired clinical crown length and stable gingival margins. A staged approach allows sequencing the provisional restoration to improve the esthetic management during the postsurgical maturation period while mitigating unesthetic sequelae. This lecture will present the rationale, clinical procedures, and a proposed classification system for staging and sequencing esthetic crown lengthening procedures in perio-restorative therapy.

Objectives:

[1] Discuss the complications resulting from traditional crown lengthening concepts;

[2] Present a two-staged esthetic crown lengthening protocol;

[3] Demonstrate the sequencing of perio-restorative procedures and its advantages.

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The SCAD goals are as follows:

- To serve as a uniting force in the profession by promoting and fostering greater awareness for color and appearance;
- To advance multidisciplinary collaboration and discovery among industrial and institutional researchers, clinicians, laboratory technicians, and others with an interest in color and appearance in dentistry;
- To create and implement educational and training programs on color and appearance for dental professionals and students;
- To promote dental health for the general public through the advanced art and science of color and appearance in dentistry.

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Journal of Esthetic and Restorative Dentistry (JERD) and SCAD

Journal of Esthetic and Restorative Dentistry (JERD) and SCAD
The Journal of Esthetic and Restorative Dentistry (JERD), an official publication of SCAD, publishes two issues per year devoted to color and appearance in dentistry. JERD is the only journal devoted to esthetic dentistry with Impact Factor (IF), which is presently 4.1.

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We look forward to collaborating with you in supporting and promoting the best clinical and laboratory practice and research related to color and appearance.

Abstracts • Poster Presentations

Abstract #1 (Research)

Comparison of Surface Roughness and Bacterial Colonization of Recently Used Dental Ceramics and the Effect of Repeated Firing on Color Stability of Zirconia Colored by Liquid Ceramics

Amr Abouzeid[1*], Van Ramos[1], Daniel Chan[1], Sumita Jain[2]
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University of Washington, Sartell, WA, USA
[2]Periodontics Department,
University of Washington, Seattle, WA, USA

Objective: To evaluate the effect on surface roughness & bacterial adherence of a liquid ceramic system (MiYO) on 3Y TZP compared with polished 3Y TZP before and after thermocycling. Also, the change in color of MIYO-colored 3Y zirconia after repeated firing was investigated.
Material & Methods: Thirty disk-shaped specimens of 3Y monolithic zirconia were divided into three groups. Group PM (3Y- TZP, colored with MiYO, and polished). Group PZ (3Y-TZP, and polished). Group M (3Y-TZP & colored with MiYO, as fired) Surface roughness was measured using a contact profilometer. All groups were subjected to thermocycling before the second surface roughness measurements. Specimens were then disinfected before applying a defined amount of either Streptococcus mutans or Porphyromonas gingivalis. Discs were incubated for 5 days. Ra values were compared between groups before and after aging. CFU count was determined and compared. Finally, specimens in groups PM, and M were cleaned, and base color was measured using a spectrophotometer. All specimens were subjected to three additional firing cycles and delta E was calculated and compared between each firing cycle. One Way ANOVA with Tukey multiple comparison, Unpaired t-test, and One Way ANOVA Repeated measures were used for data analysis.
Results: There was a statistically significant difference in surface roughness (Ra) between the PZ and M groups before and after aging. All surface roughness measurements were below 0.2 µm. There was a statistically significant difference in CFU count among all groups. Two-way ANOVA with repeated measures revealed a statistically significant difference in delta E after repeated firing.
Conclusions: 1. There was a correlation between surface roughness and CFU count. 2. Thermocycling increased surface roughness among all groups. 3. CFUs counts were correlated with surface roughness and type of bacteria. 4. Repeated firing of MiYO may be perceived as a change in color.

Abstracts • Poster Presentations

Abstract #2 (Research)

Correlation of Two-Color Difference Formulas in Evaluation of Translucency Parameter of Flowable Resin Composites upon Staining in Coffee

Farnaz M. Dini[1*], Marilia M. Sly[1,2], Yonca Korkmaz-Ceyhan[1,2], Rosa Llisel Ocampo Escobedo[2], Emese Abram[3], Joe C. Ontiveros[1,2], Rade D. Paravina[1,2]

[1]University of Texas, School of Dentistry, Restorative Dentistry & Prosthodontics Department, Houston, TX, USA

[2]University of Texas, School of Dentistry, John M. Powers, PhD Center for Biomaterials and Biomimetics (PCBB), Houston, TX, USA

[3]Semmelweis University, Department of Prosthodontics, Budapest, Hungary

Objective: To evaluate the correlation of Translucency Parameter (TP) of Flowable Resin Composites Exposed to Staining in Coffee, utilizing two color difference formulas: CIELAB (TP_{76}) and CIEDE2000 (TP_{00}).

Methods: Nine commercial flowable resin composites were tested: 3M Filtek Supreme Flowable Restorative (FS, Solventum), Omnichroma Flow (OM, Tokuyama), Gradia Direct LoFlo (GD, GC), G-ænial Flo X (GF, GC), G-ænial Universal Injectable (GU, GC), Vertise Flow (VF, Kerr), Beautifil Flow Plus X F_{00} Shofu), Beautifil Flow Plus X F_{03} (03), and Luna Flow (LF, SDI). Specimens were used to fabricate disc-shaped composite specimens (10-mm in diameter, 2-mm thick, n=5/group). Specimens were made using cylindrical molds, pressed between glass slides with polyester film, and polymerized for 40 seconds with an LED curing light. Specimens were finished with 600-grit SiC paper discs and polished with PoGo one-step polishing discs for 40 seconds. Color measurements were performed before and after a 3.8-day staining (Equivalent to a year of service with the exposure of 15-minutes/day) and immersed in Coffee solution. Color measurements were performed using a benchtop spectrophotometer (Ci7600, X-Rite), against the white and black background, before and after staining. The differences in CIEDE2000 TP values (ΔTP_{00}), were calculated. A one-way ANOVA was used to compare the effect of material and procedure, while a Tukey's posthoc multiple comparison test was used to assess differences among levels within each variable (α=0.05). Regression analysis examined the relationship between TP_{76} and TP_{00} values before and after staining.

Results: TP_{00} and TP_{76} values of evaluated resin composites before and after staining in coffee are shown in the pictures. Strong correlations were observed between TP_{76} and TP_{00} both before ($y = 0.74x + 0.89$; $R^2 = 0.98$) and after staining ($y = 0.73x + 0.99$; $R^2 = 0.98$). In both conditions, TP00 values were consistently lower than TP_{76}.

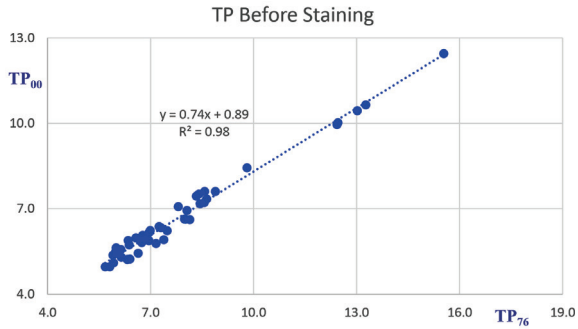
Abstracts • Poster Presentations

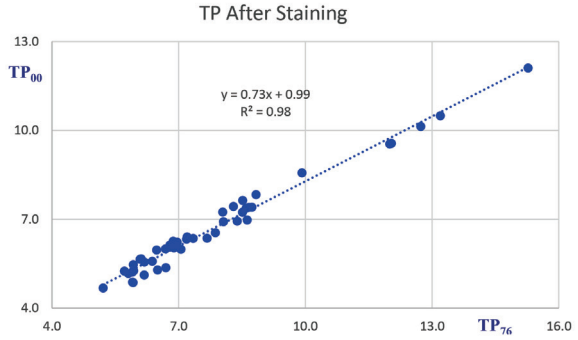
Coffee Staining – TP Comparison (Before Staining)

Composite	TP_{76} Before Mean (SD)	TP_{00} Before Mean (SD)	Δ (TP_{76}-TP_{00})	% Change
FS	6.3 (0.3)	5.8 (0.2)	-0.5	-7.9%
OM	13.3 (1.3)	10.7 (1.0)	-2.6	-19.5%
GD	8.5 (0.3)	7.3 (0.2)	-1.2	-14.1%
GF	6.1 (0.4)	5.2 (0.4)	-0.9	-14.8%
GU	8.6 (0.7)	7.6 (0.5)	-1.0	-11.6%
VF	6.8 (0.5)	5.5 (0.3)	-1.3	-19.1%
BF00	6.6 (0.6)	5.9 (0.4)	-0.7	-10.6%
BF03	6.9 (0.3)	6.1 (0.2)	-0.8	-11.6%
LF	7.7 (0.5)	6.4 (0.3)	-1.3	-16.9%

Coffee Staining – TP Comparison (After Staining)

Composite	TP_{76} Before Mean (SD)	TP_{00} Before Mean (SD)	Δ (TP_{76}-TP_{00})	% Change
FS	6.5 (0.4)	5.9 (0.3)	-0.6	-9.2%
OM	13.0 (1.3)	10.4 (1.1)	-2.6	-20.0%
GD	8.5 (0.3)	7.3 (0.2)	-1.2	-14.1%
GF	6.4 (0.4)	5.2 (0.3)	-1.2	-18.8%
GU	8.7 (0.7)	7.7 (0.5)	-1.0	-11.5%
VF	6.2 (0.4)	5.1 (0.2)	-1.1	-17.7%
BF00	6.5 (0.6)	5.9 (0.5)	-0.6	-9.23%
BF03	6.9 (0.4)	6.1 (0.3)	-0.8	-11.6%
LF	7.9 (0.6)	6.6 (0.4)	-1.3	-16.5%





Conclusions: Although TP_{76} and TP_{00} were highly correlated and largely interchangeable, with TP_{00} values being significantly lower, both before and after staining.

Abstracts • Poster Presentations

Abstract #3 (Research)

Light Transmission Through Zirconia and Lithium Disilicate Ceramics: The Role of Thickness and Translucency

Juliana Godinho Kenj*, Claudia Ruiz Brisuela, Joe Ontiveros
University of Texas, School of Dentistry,
Restorative Dentistry & Prosthodontics Department,
Houston, TX, USA

Objective: This study aimed to compare the effect of varying thicknesses and translucency levels of zirconia and lithium disilicate dental ceramics on the transmission of curing light intensity.
Methods: Zirconia and lithium disilicate ceramics were evaluated based on translucency levels, categorized as either low translucency (A2 shade IPS e.max ZirCAD-LT and Amber Mill-LT) or medium translucency (A2 shade IPS e.max ZirCAD-LT; Ivoclar and Amber Mill-MT; Haas). For each material, five rectangular specimens (15 × 12 mm) were fabricated and subdivided into four thickness groups: 0.5 mm, 1.0 mm, 1.5 mm, and 2.0 mm. A curing light (SmartLite Pro; Dentsply Sirona) was transmitted through each specimen, and light intensity was measured using a radiometer (Bluephase Meter II; Ivoclar Vivadent). Each specimen was measured three times (n = 15), with consistent positioning ensured by a custom jig. Baseline light intensity was recorded without specimen placement to serve as a control. The percentage reduction in light intensity was calculated for each combination of material, translucency level, and thickness. Statistical analysis was performed using one-way ANOVA, followed by Tukey's post-hoc test for multiple comparisons, with significance set at $p < 0.05$.
Results: Significant differences in mean light intensity were observed for ceramic translucencies and thicknesses among groups ($p < 0.05$).
Conclusions: Results provide insight into how ceramic composition, translucency, and thickness influence light transmission, with implications for optimizing curing protocols in restorative dentistry.

Acknowledgements: *This study was supported in part by the UTSD Student Research Program. Materials were provided by Ivoclar Vivadent and Hass Bio America. Lab support provided by Champions Crown and Bridge and Hass Bio America. Light curing unit provided by Dentsply Sirona.*

Abstracts • Poster Presentations

Abstract #4 (Research)

Effect of Beverage Staining on Gloss of Flowable Composites

Yonca Korkmaz-Ceyhan[1*], Farnaz Dini[1], Marilia Mattos Sly[1], Rosa Llisel Ocampo Escobedo[2], Emese Abram[3], Rade D. Paravina[1,2]
[1]University of Texas, School of Dentistry, Restorative Dentistry & Prosthodontics Department, Houston, TX, USA
[2]University of Texas, School of Dentistry, John M. Powers, PhD Center for Biomaterials and Biomimetics (PCBB), Houston, TX, USA
[3]Semmelweis University, Department of Prosthodontics, Budapest, Hungary

Objective: To compare the influence of a selection of beverages on the gloss retention (GR%) of nine flowable resin composites.
Methods: Nine flowable composites were used to fabricate disc-shaped composite specimens (10-mm in diameter, 2-mm thick, n=5). The flowable composites were 3M Filtek Supreme Flowable Restorative (FS) Omnichroma Flow (OM), Gradia Direct LoFlo (GD), G-ænial Flo X (GF), G-ænial Universal Injectable (GU), Vertise Flow (VF), Beautifil Flow Plus X F00 (BF00), Beautifil Flow Plus X F03 (BF03) and Luna Flow (LF). Specimens were fabricated using cylindrical molds. Material was loaded into the mold, pressed between two glass slides lined with polyester film and polymerized for 40 seconds using a LED curing light (Valo, Ultradent). Specimens were finished using 600-grit SiC paper disks, and subsequently polished with PoGo one-step polishing disks (Dentsply) and a handpiece for 40 seconds. Gloss measurements were performed before and after exposure to 150 kJ/m^2 of AAA using a glossmeter (Rhopoint). The gloss retention percentages were calculated. A one-way ANOVA was used to compare the effect of material and AAA, while a Tukey's post hoc multiple comparison test was used to assess differences among levels within each variable (α=0.05).
Results: The gloss retention is shown in the Table. Staining-dependent GR% ranged from 83.4 and 134%, with the highest values recorded for OM and LF. Statistically significant differences were recorded among materials, staining solutions and their interactions ($p<0.001$).

Table: Means Gloss Retention (GR%) of flowable composites after staining.

	Beverage			
Materials	Coffee	Red wine	Black tea	Dist. water
FS	102.5%	115.6%	100.5%	104.5%
OM	99.9%	124.6%	118.1%	134.4%
GD	98.7%	123%	93.6%	101.7%
GF	92.6%	103.3%	99.9%	108.3%
GU	98.3%	108.3%	101.1%	103.7%
VF	84.4%	106.9%	100.6%	93.3%
00	85.5%	86%	86%	98.1%
03	89.6%	89.4%	95.2%	83.4%
LF	93.2%	123.5%	109.7%	100.1%

Conclusions: Staining caused material- and staining solution-dependent changes in gloss retention of the evaluated flowable composites. However, the gloss retention was high across all materials.

Abstracts • Poster Presentations

Abstract #5 (Research)

Laser Removal of Porcelain Veneers: Material-Specific Expectations

Claudia Ruiz Brisuela*, Juliana Kenj, Juliana Barros, Joe Ontiveros
University of Texas, School of Dentistry,
Restorative Dentistry & Prosthodontics Department,
Houston, TX, USA

Objectives: This case report describes the use of Er,Cr:YSGG laser for the atraumatic removal of recently cemented porcelain veneers with clinical defects, including improper positioning and marginal discrepancies. Traditional rotary instrument removal risks irreversible damage to both the veneer and underlying enamel,whereas laser-assisted debonding offers a minimally invasive alternative. This report also highlights key factors that influence laser behavior, enabling clinicians to improve accuracy in treatment planning and patient expectations.
Clinical Consideration: Two patients presented to the UTSD clinics with complications following veneer cementation. In the first case, a maxillary anterior layered feldspathic veneer was placed with a cant; in the second, a pressed lithium disilicate (E-max) veneer presented with an open margin compromising integrity. The clinical challenge was to remove the restorations without harming the teeth or relying on destructive methods.
An Er,Cr:YSGG laser (Waterlase iPlus, Biolase) was employed using manufacturer-recommended settings (3 W, 20 Hz, 50% air, 50% water, noncontact mode at 3–5 mm). The laser light penetrates porcelain with minimal absorption by the ceramic and is primarily absorbed by the resin cement, causing its breakdown. Veneers were scanned in cycles of up to 60 seconds until cement darkening was noted, followed by gentle torque with a hand instrument.
In the case of the lithium disilicate veneer, it was removed intact and successfully recemented. In contrast, the feldspathic veneer developed cracks during laser irradiation, requiring remanufacture. Despite the difference in outcomes, both cases demonstrated preservation of the underlying tooth structure, confirming the minimally invasive nature of the laser-assisted removal technique.
Conclusions: These cases highlight the value of erbium lasers for veneer debonding, enabling preservation of tooth structure and, when possible, retrieval of intact restorations. The Er,Cr:YSGG laser provided a safe and efficient method for veneer removal, reducing the risks inherent in rotary instrumentation. As the use of high-strength ceramics increases, laser-assisted debonding represents a crucial conservative strategy for managing aesthetic and functional restoration failures.
Disclosure: The Waterlase iPlus unit (Biolase) was loaned for clinical use. No other external funding was received.
Keywords: Veneer debonding, Er,Cr:YSGG laser, atraumatic removal, esthetic dentistry, minimally invasive

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