



2023 CHICAGO

February 23-24, 2023
94th Annual Meeting of the
AMERICAN PROSTHODONTIC SOCIETY
Welcoming, as always, all General
Dentists and Dental Technicians!

Art & Science of Zirconia Applications

American Prosthodontic Society

4425 Cass St., Suite A,
San Diego, CA, 92109

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www.prosthodont.org

Speakers:

Lee Ann Brady

John Burgess

Christian Coachman

Giacomo Fabbri

Michel Magne

Carlo Marinello

Rolando Nunez

Ariel Raigrodski

John Sorensen

Frank Spear

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Join APS Today!

NOT ALREADY A MEMBER? COME GROW WITH US. We invite you to apply for membership, whether you're a generalist, specialist, technologist or student, you will find a professional home in APS. Membership applications are available at the Registration Desk, or you can sign up online at prosthodontic.org.

APS Meeting Goals

- Highlight evidence-based dentistry, where scientific research is applied to clinical dentistry
- Provide interdisciplinary instruction and advanced knowledge in prosthodontic education
- Provide an international representation in the prosthodontic field
- Create an environment for networking, professional interaction and knowledge sharing among participants



Welcome to the American Prosthodontic Society (APS)



Dear APS Family and Friends,

We hope 2023 began with healthy days and happiness for you and your loved ones, and that it remains like this everlastingly.

Once again, the American Prosthodontic Society (APS) will open its doors to welcome everyone with an interest and a passion for Prosthodontics at the 94th APS Annual Meeting on February 23 and 24, 2023 at the Swissotel, Chicago Downtown.

Dr. Nasser Barghi, our 2023 Scientific Program Chair, has assembled a dream team of speakers for this year. Brilliant clinical, research and artistic minds will coincide at the APS, to address the premise that the "Art and Science of Zirconia Applications" functionally, esthetically and predictably, improve patient care, longevity and quality of life. Thank you to Dr. Brady, Dr. Burgess, Dr. Coachman, Dr. Fabbri, Mr. Magne, Dr. Marinello, Dr. Nunez, Dr. Raigrodski, Dr. Sorensen and Dr. Spear for accepting our invitation and sharing with us so much. The APS 2023 learning experience and the camaraderie will be unmatched!

Our gratitude also goes to each one of our APS members, Sponsors and Corporate Friends whom made this possible and 2023 another successful year for our beloved Organization.

Thank you very much to RES, the APS administrative firm. Under the leadership of Lynn Reeves, the RES team has been nothing short of exceptional

aiding with all our APS objectives, logistics and administration duties. As we carry on with the APS mission: to promote the advancement of Prosthodontics through education and research, by integrating the general dentist, dental technologist and specialists, we cannot thank enough the American Prosthodontic Foundation. At the core of the congeniality and friendship nature of the APS, the AP Foundation has been through the years a true mecenas and friend of the APS. Thank you very much to the AP Foundation and their Board of Directors for supporting our goals and dreams consistently.

Dear colleague, we are certain you will find this year Program conducive to a wonderful weekend of sharing knowledge, technology and future perspectives, all this while you visit with your old friends and make new ones. The APS looks forward to continuous collaboration as we nourish friendships and make a positive impact on your philosophy of patient care.

On behalf of the APS Council, all our APS members and the AP Foundation, I would like to thank you very much for taking the time and making the effort to travel to Chicago this weekend and choosing the APS as your educational home this winter.

Looking forward to shaking your hand very soon and with my warmest regards to you and your Families,

Sincerely, your friend, always,

Paco Cortes, D.D.S.
American Prosthodontic Society President



This continuing education activity has been planned and implemented in accordance with the standards of the ADA Continuing Education Recognition Program (ADA CERP) through joint efforts between The American College of Prosthodontists and The American Prosthodontic Society.

The American College of Prosthodontists (ACP) is an ADA CERP Recognized Provider. ADA CERP is a service of the American Dental Association to assist dental professionals in identifying quality providers of continuing dental education. ADA CERP does not approve or endorse individual courses

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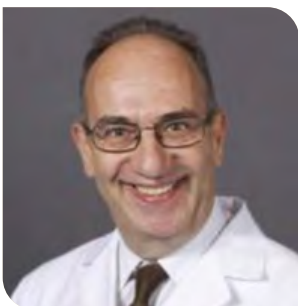
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Dr. Nasser Barghi,
APS 2023 Program Chair

APS Mission Statement

To promote the advancement of the discipline of prosthodontics by integrating the generalist, specialist and dental laboratory technologist in a manner that will continuously seek improvement of patient treatment. We will accomplish this through education and research.

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2023 Program Schedule At-a-Glance

Registration:

Zurich Foyer (1st Floor Event Centre)

General Session:

Zurich Ballroom ABC (1st Floor Event Centre)

Business Meeting:

Zurich Ballroom EF (1st Floor Event Centre)

Exhibits & Reception:

Zurich Ballroom D (1st Floor Event Centre)

Digital Poster Presentations:

Zurich Ballroom D (1st Floor Event Centre)

Wednesday, February 22, 2023

1:30 - 4:30 pm	Executive Council Meeting- Invitation Only
5:00 - 7:00 pm	Registration and AP Foundation Welcome Reception - Room Location: Eleve, 42nd Floor - <i>All Meeting Attendees Invited</i>

Thursday, February 23, 2023

7:00 - 7:50 am	Continental Breakfast/Exhibit and Digital Poster Program Opens								
7:50 - 8:00 am	Call to Order and Opening Remarks								
8:00 - 9:00 am	<i>Golden Medallion Awardee Presentation:</i> <i>Integrating Minimally Invasive Concepts in Complex Treatment Plans</i> Frank Spear (USA)								
9:00 - 10:00 am	<i>The Pursuit of Zirconia Esthetics: Innovations in Zirconia Structure, Design, Translucency and Shade Gradation-</i> John Sorensen (USA)								
10:00 - 10:30 am	Networking Break								
10:30 - 10:40 am	Graduate Prosthodontic Student Research Competition Candidate <i>Retention Force of Titanium Copings to Implant-Supported Fixed Dental Prostheses</i> Sieu Yien (Ashley) Chiam (University of Washington)								
10:40 - 10:50 am	Graduate Prosthodontic Student Research Competition Candidate <i>Susceptibility to Stain of Aged Denture Base Acrylic Resins</i> Jennifer Jacobson (Stony Brook University)								
10:50 - 11:00 am	Graduate Prosthodontic Student Research Competition Candidate <i>Exploring the Degradation of Dental Implant-Abutment Interface: The Role of Fretting-Corrosion</i> Apurwa Shukla (University of Illinois at Chicago)								
11:00 am - 12:00 pm	<i>Zirconia- The Material, Bonding and its Use</i> John Burgess (USA)								
12:00 pm - 1:30 pm	Break for Lunch & Corporate Forum <table> <tr> <th colspan="2">Corporate Forum Sessions- Zurich Ballroom ABC</th></tr> <tr> <td>12:30pm-12:50pm</td><td>Supported by Zirkonzahn: Digital Workflow Alessandro Cucchiaro</td></tr> <tr> <td>12:50pm-1:10pm</td><td>Supported by Glidewell: A.I., Zirconia, 3D Printing, Full Arches, and More with Glidewell Research and Development Taylor Manalili and John Bernhard</td></tr> <tr> <td>1:10pm-1:30pm</td><td>Supported by SprintRay: Implementing 3D Printing in the Dental Office - Build Your In-House Digital Lab TODAY! Sergio Florencio</td></tr> </table>	Corporate Forum Sessions- Zurich Ballroom ABC		12:30pm-12:50pm	Supported by Zirkonzahn: Digital Workflow Alessandro Cucchiaro	12:50pm-1:10pm	Supported by Glidewell: A.I., Zirconia, 3D Printing, Full Arches, and More with Glidewell Research and Development Taylor Manalili and John Bernhard	1:10pm-1:30pm	Supported by SprintRay: Implementing 3D Printing in the Dental Office - Build Your In-House Digital Lab TODAY! Sergio Florencio
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Digital Poster Presentations:

Zurich Ballroom D (1st Floor Event Centre)

1:30 - 2:30 pm	<i>The Perfectly Imperfect Smile</i> Rudd Award Recipient: Michel Magne
2:30 - 3:30 pm	<i>From Try In to Post Op; Zirconia Protocols</i> Lee Ann Brady (USA)
3:30 - 4:00 pm	Networking Coffee Break
4:00 - 5:00 pm	<i>The Evolution of Zirconia to a Monolithic Restorative Material- An Evident-Based Clinical Perspective</i> Ariel Raigrodski (USA)
5:00 pm	Session Adjourn
5:00 - 6:30 pm	Reception in the Exhibit Hall
Friday, February 24, 2023	
7:30 - 8:30 am	Members Business Meeting & Continental Breakfast
8:30 - 8:40 am	Opening Remarks
8:40 - 9:40 am	<i>Dentist-Lab Synergy in the Digital Era</i> Christian Coachman (USA)
9:40 - 10:40 am	<i>Zirconia: What Do I Have to Know?</i> Carlo Marinello (Switzerland)
10:40 - 11:00 am	Networking Coffee Break
11:00 - 11:20 am	Presentation of Digital Poster Awards & Presentation of Graduate Prosthodontics Research Awards
11:20 am - 12:20 pm	<i>5-year Clinical Experience with Bonded Zirconia Minimal Invasive Restoration: The New Normality?</i> Giacomo Fabri (Italy)
12:20 - 1:20 pm	<i>Bonding to Zirconia. Myths & Reality</i> Rolando Nunez (USA)
1:20 - 1:30 pm	<i>2024 Meeting</i> Alon Preiskel
1:30 pm	Meeting Adjourns
1:45 - 4:30 pm	APS Executive Council Meeting- Invitation Only Matterhorn Room



8:00 - 9:00 am

Golden Medallion Awardee Presentation: Integrating Minimally Invasive Concepts in Complex Treatment Plans

Frank Spear (USA)

On a regular basis in practice, clinicians are faced with patient presentations that go beyond the simple decision of, does a tooth need a restoration or not? Those more difficult decisions often involve situations such as, an anterior tooth presents with a horizontal root fracture, should I retain it, or extract and place an implant, what do I need to look at to make an informed decision? A patient presents with an existing un-esthetic three-unit anterior FPD, should I replace it, or do an implant and 3 single unit restorations? What needs to be evaluated? What does the literature say about the 5, 10, and 20 year success of FPD's vs Implants? This presentation will focus on these kinds of dilemmas involving tooth retention and restoration, vs removal and replacement. The specific clinical dilemmas covered, in addition to the two listed above, will be, teeth with apical root resorption, advanced bone loss, and ankylosis. Clinical examples and literature support will be presented for all of the above listed dilemmas.

Learning Objectives:

- An algorithm of key questions to ask when deciding whether to retain and restore vs remove and replace.
- What the literature states the long-term success rates are for the different conditions listed above.
- How the age of the patient impacts the treatment decision of whether to retain and restore vs remove and replace, the concept of "Management vs Cure".
- The importance of looking forward to, "What is next", and how that can impact the choice of what to do now.

Dr. Frank Spear, as the founder and director of Spear Education, Dr. Spear continues to be recognized as one of the premier educators in esthetic and restorative dentistry in the world today. Dr. Spear earned his dental degree from the University of Washington in 1979, and an MSD in periodontal prosthodontics in 1982, also from the University of Washington. Dr. Spear has been recognized by numerous associations for his contributions to dentistry. In 1993, he was awarded the Christensen Award for Excellence in Restorative Education from the Chicago Dental Society. In 1995, the American Academy of Cosmetic Dentistry presented him with a special award for having advanced the Art and Science of cosmetic dentistry in the United States. In 1996, he received the Saul Schluger Memorial Award for Excellence in Diagnosis and Treatment Planning from the Seattle Study Club. In 2003 he and colleague Vincent G. Kokich were awarded the first ever Presidents Award for excellence in education from the American Academy of Esthetic Dentistry. He also earned the 2004 Distinguished Alumnus Award from Pacific Lutheran University his undergraduate Alma Mater. And in 2013 was named Distinguished Alumnus for the University of Washington School of Dentistry. In 2018 he received the first ever Charles Pincus - Ronald Goldstein Lifetime Achievement Award in Esthetic Dentistry from the American Academy of Esthetic Dentistry. In 2019 he received the Distinguished lecturer award from the Greater New York Academy of Prosthodontics. He belongs to multiple dental organizations including the American Academy of Esthetic Dentistry, American Academy of Restorative Dentistry, and the American College of Prosthodontics. He is also a past President of the American Academy of Esthetic Dentistry.

**Instructor has disclosed Affiliation/Financial Interest with the following company: Spear Education*



9:00 - 10:00 am

The Pursuit of Zirconia Esthetics: Innovations in Zirconia Structure, Design, Translucency and Shade Gradation

John Sorensen (USA)

Capitalizing on the outstanding physical properties of zirconia, the profession has widely embraced the monolithic concept for ceramic prostheses ranging from single crowns to complete-arch implant supported screw retained prostheses. CAD/CAM systems can produce exquisite posterior occlusal anatomy, exceptional accuracy, standardization, efficiency



and simplification of processes. In pursuit of more life-like optical properties, manufacturers have introduced a variety of novel innovations in ceramic structure, milling disk/block structure and shade gradation, shading technologies and unique ultra-thin layering materials. This presentation will survey and critically evaluate currently available strategies for state of the art esthetics in monolithic zirconia and will explain how the application of external colorants can effect wear of antagonist tooth structure and current research on the durability of these agents.

Learning Objectives:

- Understand the strengthening mechanisms of zirconia ceramics and alterations in strength when modifying zirconia structure for esthetics.
- Understand the mechanisms of improved zirconia esthetics by ceramic structure, milling disk/block structure and shade gradation, shading technologies and unique ultra-thin layering materials.
- Understand how the application of external colorants can affect wear of antagonist tooth structure and current research on the durability of these agents.

Dr. Sorensen is Professor, Department of Restorative Dentistry; Director, Biomimetics Biomaterials Biophotonics Biomechanics & Technology Laboratory; Director of Research, Graduate Prosthodontics Program at the University of Washington. The B4T team is actively engaged in materials science investigation, developing new diagnostic and analysis tools, research and development of digital work flows for conventional prosthodontics and implant surgical-prosthodontics and clinical trials. He is a diplomate of the American Board of Prosthodontics. Dr. Sorensen is President of the Academy of Prosthodontics. Dr. Sorensen has published over 95 research articles and chapters as well as over 150 research abstracts. He has given over 150 invited lectures in 37 countries as well as over 300 lectures courses, hands-on programs and patient-treatment classes. Sorensen was awarded the 2018 Clinician-Researcher Award of Distinction by the American College of Prosthodontists. Distinguished Speaker Award by the Greater New York Academy of Prosthodontics in 2017. And the President's Award in 2013 by the American College of Prosthodontists.

**Instructor has disclosed Affiliation/Financial Interest with the following companies: Access Laser, Stratasys, 3Shape A/S, Brasseler USA, BioHorizons, 3D Systems, Sculpture Studios, WhipMix, Stratasys, Jensen Dental, HASS, IvoclarVivadent*



11:00 am - 12:00 pm

Zirconia- The Material, Bonding and its Use

John Burgess (USA)

Ceramic materials dominate the esthetic dental market and although improvements with ceramics continues the search for a durable fracture resistant materials continues. This fast paced presentation provides a firm foundation for zirconia the material, its bonding and its clinical application.

Learning Objectives:

- Give the advantages and disadvantages of zirconia as a dental restorative material.
- Select the zirconia used for anterior and posterior applications.
- Provide a clinically successful method for bonding zirconia to prepared tooth.
- Understand rapid firing of zirconia- no it is not a 6 hour cycle anymore.

Dr. Burgess is a clinical research professor at LSUHSC in New Orleans. He graduated from Emory University School of Dentistry and completed graduate training at the University of Texas Health Science Center in Houston. After completing a General Practice Residency and a General Dentistry Residency, he served as military consultant to the Surgeon General in General Dentistry. Dr. Burgess is a member of the Academy of Restorative Dentistry, the ADA, the American Association for Dental Research and the Academy of Operative Dentistry. In 2010, he received the Hollenbeck Award for outstanding work in Operative Dentistry and Biomaterials from the Academy of Operative Dentistry. A prolific researcher, he has authored more than 400 articles, abstracts, and books. He served as a consultant to the American Dental Association's Council on Scientific Affairs and is active in clinical evaluations of adhesives, ceramic restoratives, low shrinkage posterior composites, self-adhesive restoratives and vital pulp therapy materials. Dr. Burgess lectures extensively nationally and internationally and has presented more than 1000 continuing education courses.

**Instructor has disclosed Affiliation/Financial Interest with the following companies: 3M, Kuraray, Dentsply, Kerr, Ivoclar, GC, iLumi*



1:30 - 2:30 pm

The Perfectly Imperfect Smile

Rudd Award Recipient: Michel Magne

Learning Objectives:

- Fundamental Key success: De- and re-programming the patient's brain to adapt to current situation intraorally
- Criteria and parameters to achieve a balanced smile
- Biomimetics and the evolution of smile challenges in the digital workflow: Minimally invasive digital dentistry and micro precision

Michel Magne is a renowned master ceramist and expert in the art and science of aesthetic dentistry. An internationally sought-after speaker and educator, he lectures and teaches at some of the top dental schools both in the U.S. and abroad, including UCLA, University of Southern California, New York University, University of Geneva, and University of Barcelona in Spain. Michel received his dental technician certification in 1979 in his home country of Switzerland. He specializes in aesthetic rehabilitations and bonded porcelain restorations, and has published extensively on these topics. Michel Magne is the Aesthetic Director at Beverly Hills Dental Laboratory. Michel was an associate professor of clinical dentistry and director of the Center for Dental Technology at the USC. He also ran his own laboratory, 901 Oral Design, in Marina del Rey. Prior to that, he spent 12 years as the owner and director of the Oral Design Center at the Dental Laboratory in Montreux, Switzerland. Master Ceramist Michel Magne, will continue his educator legacy at the APS 94th Annual Meeting on February 23, 2023, inspiring general dentists, dental technicians and specialists with his lecture as part of the APS 2023 Scientific Program.

**Instructor has disclosed Affiliation/Financial Interest with the following companies: Oral Design and Beverly Hills Dental Laboratory*



2:30 - 3:30 pm

From Try In to Post Op; Zirconia Protocols

Lee Ann Brady (USA)

Zirconia is a unique restorative material and different than the traditional glass ceramics we have used for years. Its unique physical properties require different protocols for adjusting and polishing to ensure surface texture and longevity. From traditional cementation to adhesive bonding we will explore the steps and protocols for seating zirconia based restorations.

Learning Objectives:

- Understand the adjusting and polishing protocols for zirconia Know the bonding & Cementation technique steps.
- Understand how to maintain zirconia restorations over time.

Dr. Lee Ann Brady is a privately practicing dentist and nationally recognized educator, lecturer and author. With an extensive history in leadership, she is currently Executive Director and Director of Education of the Pankey Institute. Dr. Brady has also developed a vast library of online instruction at leeannbrady.com and restorativeneration.com. She practices in Glendale Arizona, is a member of the editorial board for the Journal of Cosmetic Dentistry, Inside Dentistry and Dentaltown Magazine.

**Instructor has disclosed Affiliation/Financial Interest with the following companies: The Pankey Institute, Ivoclar*



4:00 - 5:00 pm

The Evolution of Zirconia to a Monolithic Restorative Material- An Evident-Based Clinical Perspective

Ariel Raigrodski (USA)

Clinicians and dental technicians are constantly challenged with harnessing rapidly evolving technologies and materials with the goal of providing patients with indirect restorations with superior biomechanical and optical properties. This presentation will briefly review the evolution zirconia as a restorative material and provide an update on newer translucent and polychromatic zirconia for monolithic restorations. It will also provide an update on concepts of restoration design (monolithic, bilayered, and hybrid (partial monolithic)) for such restorations and discuss how appropriate selection of different types of zirconia and restoration design may foster successful treatment outcomes for natural dentition as well as implant-supported restorations.

Learning Objectives:

- Understand the unique properties of traditional and newer translucent zirconia.
- Understand and apply different design concepts (monolithic, bilayered, and hybrid) for zirconia-based restorations while addressing their advantages and limitations for different clinical scenarios.
- Understanding how the advent of CAD/CAM technology supports the fabrication of zirconia-based restorations for both natural dentition as well as implant-supported restorations.

Dr. Raigrodski is a Diplomate of the American Board of Prosthodontics and maintains a full-time private practice limited to Aesthetic, Restorative, and Implants Dentistry in Lynnwood, WA. He is also an affiliate Professor at the Department of Restorative Dentistry at the University of Washington. He is Assistant Editor of The Journal of Prosthetic Dentistry and a member of the editorial review boards of the Journal of Esthetic and Restorative Dentistry and the International Journal of Periodontics and Restorative Dentistry. A former Full Professor and Director of the Graduate Prosthodontics Program at the University of Washington in Seattle, he is Past President of the American Academy of Fixed Prosthodontics. Dr. Raigrodski is a graduate of the Hebrew University in Jerusalem Israel. He received his certificate in Prosthodontics at Louisiana State University School of Dentistry, where he also completed a fellowship in implants and esthetics, and an MS degree. He is a Fellow of the American College of Prosthodontists, a Fellow of the International College of Dentists, and a member of many professional organizations. An author of numerous scientific articles and book chapters, Dr. Raigrodski's research is mainly clinical and focuses in all-ceramics, implants, and CAD/CAM technology. He is the Author of the book "Soft Tissue Management: The Restorative Perspective-Putting Concepts into Practice" published in 2015 by Quintessence Publishing, and lectures extensively both nationally and internationally.

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8:40 - 9:40 am

Dentist-Lab Synergy in the Digital Era

Christian Coachman (USA)

The technological disruption in dentistry is transforming the role of technicians and placing labs in the center of this revolution. There is no digital dentist, there are digital teams. Modern Dentistry is a Team Sport and the players are digitally connected. This lecture will focus on pragmatic and realistic systems to improve the, so important, communication between the dentist and the technician to create more precise, predictable and natural outcomes.

Learning Objectives:

- Understand the steps of a comprehensive digital workflow when rehabilitating smiles.
- Creating protocols to communicate on key moments in an automated way.
- Learn how digital can facilitate the restorative process with concepts like Complete Patient Digitalization, Cloud Dentistry, Asynchronous Communication, Copy-Paste Dentistry, Natural Algorithms and Digital Quality Control.

Dr. Christian Coachman graduated in Dental Technology in 1995 and in Dentistry at the University of São Paulo/Brazil in 2002. He is the president of the Brazilian Society of Esthetic Dentistry and a member of the European and American Academies of Esthetic Dentistry, becoming the only dentist member of 3 of the most important esthetic dentistry academies in the world. In 2004, Dr. Coachman was invited by Drs. Goldstein, Garber, and Salama, to join Team Atlanta as the Head Ceramist of their laboratory – a position he held for 5 years. Dr. Coachman has worked with some of the world's most renowned dentists, such as Eric Van Dooren (Belgium), Galip Gurel (Turkey), Mauro Fradeani (Italy), Nitzan Bichacho (Israel), Andrea Ricci (Italy), Mario Groisman (Brazil) and Marcelo Calamita (Brazil). He is the developer of well known, worldwide concepts such as Digital Smile Design, Pink Hybrid Implant Restoration, Digital Planning Center, Emotional Dentistry, Interdisciplinary Treatment Simulation and Digital Smile Donator. He is the Director of the DSD Residency program, providing continuing education courses for dental professionals all over the world. In 2017, Dr Coachman became an adjunct professor of the Restorative Department at University of Pennsylvania School of Dental Medicine and, in 2018, coordinator of the Digital Dentistry Post Grad Program at University UniAvan in Balneário Camboriú, SC, Brazil. He is the founder and CEO of the DSD-Digital Smile Design company. Dr. Coachman also works as a consultant for dental companies and offices, develops dentistry-related products, and implements concepts and marketing strategies, such as the Facially-driven Digital Orthodontic Workflow developed in collaboration with Invisalign®, Align® Technology. He is one of the most renowned speakers in the international dental lecturing circuit and has published internationally in the fields of esthetic and digital dentistry, oral rehabilitation, innovation and trends, communication and marketing strategies in dentistry.

**Instructor has disclosed Affiliation/Financial Interest with the following companies: Align Technology, ZimVie & Digital Smile Design*



9:40 - 10:40 am

Zirconia: What Do I Have to Know?

Carlo Marinello (Switzerland)

Zirconia is on everyone's lips today. Rarely before has a biomaterial in dentistry changed the workflow and the teamwork of activities in the clinic and laboratory in such a way. Zirconia combines clinically relevant features such as high strength and fracture toughness, slow crack growth resistance, low thermal conductivity, high ionic conductivity, attractive biocompatibility and chemical inertness. What started out primarily as an extremely stable opaque framework material for all-ceramic restorations has developed into a ubiquitously applicable biomaterial, capable of meeting today's high



esthetic demands. The indications are limitless from subtle veneers to full-arch implant-supported reconstructions. For the clinician, it is becoming increasingly difficult to have an overview of the numerous and different types of zirconia with their advantages and disadvantages but also to adapt the clinical steps such as preparation, impression taking and bonding to the specific features of the biomaterial. It is a goal of this presentation to provide an understandable overview of the biomaterial and to give the clinician and dental technologist the necessary information to guarantee a successful application.

Learning Objectives:

- The importance of knowing the basics of zirconia as the biomaterial of choice for a conventional and minimally invasive digital workflow is emphasized
- The use of zirconia as a successful biomaterial in the context of minimally invasive dentistry is highlighted using veneers as an example
- The necessity of knowledge of the limits, the benefits and the clinical rules of zirconia in a team-oriented clinical use between dentist and dental technologist is documented



Dr. Marinello graduated from the University of Zurich. He served as Assistant Professor and acting head of the Dental Public Health Clinic and was Assistant Professor, Department of Fixed and Removable Prosthodontics and Dental Material Sciences at the same University. He served as a Visiting Research Professor, Department of Periodontology, at the University of Gothenburg where he received his Master of Science degree. He was an Associate Professor and Head of Periodontology, Department of Preventive Dentistry, Periodontology and Cariology at the University of Zurich. From 1995-2015 he was a full-time Professor and Chairman of the Department of Reconstructive Dentistry and Temporomandibular Disorders at the Dental School of the University of Basel. Since 2015 he is a Professor Emeritus of the University of Basel. In 2011 he was the President of the American Prosthodontic Society and in 2016 he was the President of the International Academy of Digital Dental Medicine. He is the author of over 150 refereed papers. In 2003 he received the Distinguished Lecturer Award from the American College of Prosthodontics and in 2012 from the Greater New York Academy of Prosthodontics. He is the recipient of the Elmer S. Best Memorial Award by the Pierre Fauchard Academy and the Golden Medallion Award from the American Prosthodontic Society.

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11:20 am - 12:20 pm

5-year Clinical Experience with Bonded Zirconia Minimal Invasive Restoration: The New Normality?

Giacomo Fabri (Italy)

The prosthetic treatment plan must allow an ideal integration of esthetics, biologics and functional requirements on natural teeth and on implants. In the last 20 years the technology, the new components and the new materials have revolutionized the traditional approaches, introducing steadily new digital instruments year after year: Cad/Cam technology, guided implant surgery and innovative digital tools for diagnosis, planning and treatment. All these innovations have influenced significantly the clinical and technical workflow both in case of teeth-supported and implant-based rehabilitations. Concerning teeth supported prosthesis the key point is the minimal invasive prosthetic approach and its integration with a digital workflow. Minimal invasive prosthetic procedures can be performed not only in case of full mouth rehabilitation but also considering simple crowns and bridges. In fact today with a correct preparation technique is possible to preserve sound tooth structure and also enamel in many clinical situations. This procedure combined with adhesive bond and a correct selection and use of the restorative material allows to achieve excellent result in term of integration and reliability of the final prosthetic outcome. Evolution of restorative materials and approaches offered the possibility to work with restoration with reduced thicknesses maintaining sound tooth structure and preserving the integrity of the natural tooth.

In fact nowadays in case of well-preserved teeth, with a calibrate reduction and a specific clinical approach, it is possible to complete the preparation maintaining more then the 70% of enamel. The right selection of the restorative material is a crucial aspect and monolithic zirconia represents the most interesting option thanks to the possibility to manage it in really reduced thickness also the posterior segments. This aspect, combined to the important achievements about the chemical adhesion of the zirconia, opens a great scenario in terms of restorative techniques and clinical restorative options. This lecture is aiming to described a 7-year clinical experience with ultrathin bonded zirconia restorations placed in the anterior and posterior segments.

Dr. Giacomo Fabbri, he was born in 1979 and he graduated with honours in dentistry and dental prosthodontics at the University of Pavia in 2003. He attended several postgraduate programs in Italy and abroad in the fields of Prosthodontics, Periodontics, Implant Dentistry and Esthetic Dentistry. In 2012 he became an Active Member of the Italian Academy of Prosthetic Dentistry (A.I.O.P), a prestigious scientific Academy in the field of esthetic and prosthetic dentistry. He is an Active Member of the Italian Academy of Esthetic Dentistry. He has published several international articles in peer-reviewed journals and he lectures regularly in Italy and abroad on topics related to fixed prosthodontics and implant prosthodontics with specific interest on esthetics, new materials and modern minimally invasive approaches. He works in Ban-Mancini-Fabbri Specialist Dental Practice, located in Cattolica (Italy), in the field of esthetics and prosthetic rehabilitation on natural teeth and implants.

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12:20 - 1:20 pm

Bonding to Zirconia. Myths & Reality

Rolando Nunez (USA)

Zirconia restorations have become extremely popular amongst clinicians. This material provides great strength and fracture resistance to the restoration. The dynamic change in the formulation of zirconia has provided the application of this material in clinical scenarios where esthetic outcomes are of essence. Nevertheless, there is still confusion amongst



clinicians on how to properly bond to zirconia. The purpose of this lecture is to cover all then possible scenarios on how to bond to zirconia based on different bonding techniques and materials used.

Learning Objectives:

- Explain what is zirconia
- Cover the clinical applications of zirconia
- Establish how bonding to zirconia is achievable based on lab testing
- Cover the different bonding protocols and permutations when bonding a zirconia restoration
- Explain saliva contamination and how to either avoid it or remove it.
- Cover the different materials needed to successfully bond a zirconia restoration

Dr. Rolando Nunez received this dental degree from Central University of Venezuela in 1997. He enrolled a Biomaterials Graduate Program at the University of Alabama at Birmingham, obtaining a MSc. degree in 2004. He joined BISCO as a private clinical consultant from 2005 until 2013, where he worked closely with the Research and Development Department in the development of new and innovative products. In 2014 he became Manager of Clinical Research for BISCO Inc. Dr Nunez has held a private practice focusing in Esthetic and Restorative Dentistry for the past 10 years. He has lectured in over 30 countries on a vast array of topics regarding Adhesive Dentistry. He has many publications regarding clinical techniques as well as scientific articles in peer review journals.

Dr. Nunez is a member of the following groups:

- International Association of Dental Research • American Association of International Research • Latin American Society of Operative Dentistry and Biomaterials • Dental Materials Group of the IADR • Venezuelan Society of Operative Dentistry Biomaterials and Esthetics

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The mission of the American Prosthodontic Foundation is to promote research, fund scholarships and provide educational opportunities in prosthodontics. The foundation is committed to supporting the work of the American Prosthodontic Society by funding grants for online webinars, social media educational programs, and international online conferences throughout the year.

At the annual meeting for APS, the foundation sponsors the Golden Medallion award, the opening Wednesday evening welcome ceremony, and much more. We are thankful for our list of contributors.

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The Poster Program will be held in conjunction with the meeting on **Thursday, February 23rd at the AM & PM breaks (10am-10:30am & 3:30pm-4:00pm) in the Zurich Foyer.**

Posters will be digitally displayed in the foyer and within a searchable, online gallery following the conference. Refer to the Digital Poster Presentation handout for a listing of poster topics and presenters.



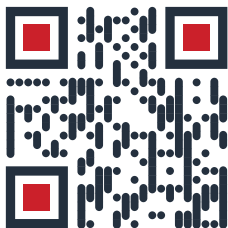


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Sieu Yien (Ashley) Chiam
(University of Washington)

Susceptibility to Stain of Aged Denture Base Acrylic Resins

Jennifer Jacobson
(Stony Brook University)

Exploring the Degradation of Dental Implant-Abutment Interface: The Role of Fretting-Corrosion

Apurwa Shukla
(University of Illinois at Chicago)

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Award Recipients



Golden Medallion Award

Frank M. Spear, DDS, MSD

The American Prosthodontic Society (APS) has selected Dr. Frank M. Spear as its 2023 Golden Medallion Awardee.

The Golden Medallion Award is issued periodically to individuals whose contributions to prosthodontics have been exceptional. The award is funded by the American Prosthodontic Foundation. Dr. Spear will be acknowledged at the 94th Annual Meeting of the American Prosthodontic Society in Chicago February 23-24, 2023.

Previous Golden Medallion Winners:

Dr. Salvatore Esposito	2022	Dr. Yasumas Akagawa	2013
Dr. Baldwin Marchack	2020	Dr. Tomas Albrektsson	2012
Dr. Carlo Marinello	2019	Dr. Thomas Taylor	2011
Dr. John Beumer	2018	Dr. Charles Goodacre	2010
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Dr. Harold Preiskel	2016	Dr. George Zarb	2008
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Dr. Gary Goldstein	2014	Dr. Peter E. Dawson	2006



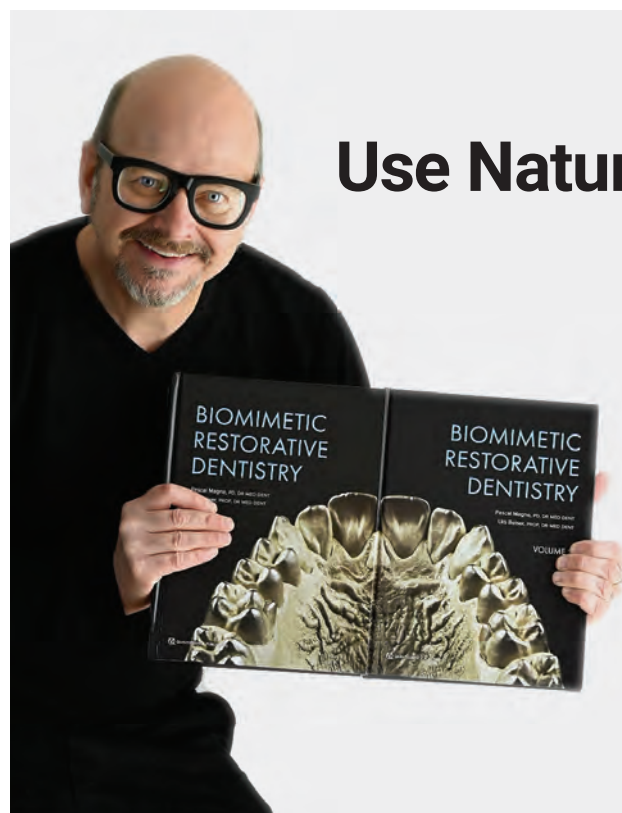
Kenneth D. Rudd Award

Michel Magne, MDT

The American Prosthodontic Society (APS) has selected Michel Magne, MDT, as its 2022 Kenneth D. Rudd Awardee. The award was developed to promote and encourage dental laboratory technicians and support the advancement of dental technology education. APS, in conjunction with the editorial council of The Journal of Prosthetic Dentistry, presents this award to a certified dental technician or dentist who has made a significant contribution to the advancement of prosthodontics and dental laboratory communities. He will be acknowledged and presenting at the 94th Annual Meeting of the American Prosthodontic Society in Chicago on February 23-24, 2022.

Previous Kenneth D. Rudd Award Winners:

Mr. Vincent Fehmer	2022	Mr. Arnold Wohlwend, CDT	2012
Mr. Andy Jakson	2020	Mr. Vincent V. Alleluia, MDT, CDT, TF	2011
Mr. Luke S. Kahng	2019	Mr. Matt Roberts, CDT	2010
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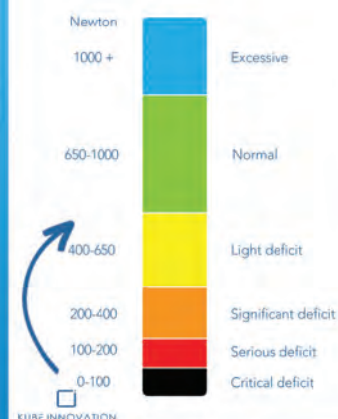
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