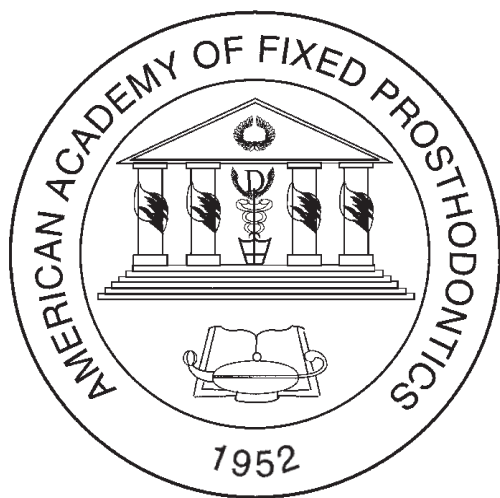


THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS



WORLD OF PROSTHODONTICS

— AN —

INTERDISCIPLINARY JOURNEY

74th ANNUAL SCIENTIFIC SESSION

Friday, February 21, 2025

Saturday, February 22, 2025

CHICAGO MARRIOTT DOWNTOWN

7th FLOOR BALLROOMS I, II, III

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February 20-21, 2026

The American Academy of Fixed Prosthodontics provides programs for its members that support its mission to foster excellence in the field of fixed prosthodontics, including promoting excellence in patient care and enhancing the professional lives of its members.

Continuing education programs are planned, developed, and managed by the AAFP Program Chair in consultation with the Continuing Dental Education Compliance Committee; the programs are in accordance with the Academy's mission and goals and the content includes the results of responses obtained from the written comments provided by course participants on the evaluation form.

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 or instructions, nor does it imply acceptance of credit hours by boards of dentistry.

AAFP is a Recognized National Sponsor by FAGD/MAGD #214695

AAFP is an approved not-for-profit organization registered in the state of Illinois: #23-7349704

12.5 hours credit for this course

THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS MISSION AND GOALS

The mission of The American Academy of Fixed Prosthodontics is to foster excellence in the field of fixed prosthodontics, implants, and esthetic dentistry through mutual study, participation, and cooperation.

The Academy shall:

1. Provide for educational enrichment of those with a recognized commitment and dedication to the field of fixed prosthodontics, implants, and esthetic dentistry.
2. Represent the discipline of fixed prosthodontics at all levels of the dental profession.
3. Promote excellence in patient care.
4. Promote excellence in teaching.
5. Encourage and support research in fixed prosthodontics.
6. Promote camaraderie and fellowship among the members of the Academy.

Authored by

Dr. Stephen D. Campbell

The Ivoclar logo features a small green dot above the letter 'i', followed by the word 'ivoclar' in a bold, blue, sans-serif font.



The Imagine logo consists of a colorful, multi-faceted geometric shape on the left, resembling a stylized 'i' or a prism, followed by the word 'Imagine' in a grey, sans-serif font with a trademark symbol.

The Nobel Biocare logo features a large, red, stylized letter 'N' on the left, followed by the words 'Nobel' and 'Biocare' in a black, sans-serif font, with a trademark symbol.

The Straumann logo features a green, stylized graphic element on the left, resembling a double 'S' or a stylized 'Z', followed by the word 'straumann' in a bold, black, sans-serif font.



THE ORIGIN AND HERITAGE OF THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS

The American Academy of Fixed Prosthodontics, originally The American Academy of Crown and Bridge Prosthodontics and renamed in 1991, has been and will continue to be the leading national voice of fixed prosthodontics. Its membership is composed of educators, clinical practitioners, and researchers in this important discipline of dentistry.

The purpose of this organization is to pursue, by mutual study and cooperation, activities reflecting a high and ethical standard of practice, teaching, and research in the art and science of crown and bridge prosthodontics.

The Academy originated in 1950 in Chicago, Illinois. The three men who deserve credit for its concept and preliminary planning are Dr. Stanley D. Tylman, Dr. Claude R. Baker, and Dr. George H. Moulton. These men of vision rallied other important leaders in the crown and bridge field to actively support their cause. Together, they planned an organizational meeting that took place at the Stevens Hotel on February 5, 1951. Those present at that meeting were Drs. Stanley D. Tylman, Arthur O. Klaffenbach, Robert P. Dressel, Alver Selberg, Charles E. Peterka, Earl A. Nelson, Claude R. Baker, and George H. Moulton. Dr. Baker was chosen as temporary chairman and Dr. Moulton as temporary secretary.

The next meeting took place in French Lick, Indiana, on March 19, 1951, where the tentative constitution and bylaws were presented for final approval. Charter members were initiated into the Academy on February 2, 1952, in Chicago, making this the first annual meeting of The Academy of Crown and Bridge Prosthodontics. We have continued to grow and expand our national and international membership to our present total of nearly 600 active and life members in 24 different countries.

Members of today have a proud heritage in the Academy. We continue to dedicate ourselves to the pursuit of knowledge, truth, and competency in research, in teaching, and in the clinical practice of crown and bridge prosthodontics.

Authored by Dr. Jesse T. Bullard

PAST PRESIDENTS

* Claude R. Baker.....1952-53	Ronald G. Granger.....1989
* Robert P. Dressel.....1954	* Maurice H. Martel.....1990
* E. David Shooshan.....1955	* Ronald D. Woody.....1991
* Earl Allen Nelson.....1956	* Albert J. Kazis.....1992
* L. Walter Brown, Jr.....1957	* William L. Nequette.....1993
* George H. Moulton.....1958	* Dale L. Timberlake.....1994
* Francis B. Vedder.....1959	Jesse T. Bullard.....1995
* Stanley D. Tylman.....1960	* Harvey L. Colman.....1996
* William H. Hagen.....1961	* Gerald J. Ziebert.....1997
* Everett Carl Brooks.....1962	* Richard D. Wilson.....1998
* Ernest B. Nuttall.....1963	Denny M. Smith.....1999
* Fred Norman Bazola.....1964	* Davis A. Garlapo.....2000
* John D. Adams.....1965	Stephen D. Campbell.....2001
* Robert Conley Zeisz.....1966	Richard R. Cavanaugh.....2002
* Willis Edward Corry.....1967	John T. Goodman.....2003
* Joseph E. Ewing.....1968	William W. Nagy.....2004
* E. Edward Kraus.....1969	Peter S. Lund.....2005
* Raymond M. Contino.....1970	H. Philip Pierpont.....2006
* Douglas H. Yock.....1971	Jane D. Brewer.....2007
* Philip Williams.....1972	Martin F. Land.....2008
* Douglas M. Lyon.....1973	John R. Agar.....2009
* Kenneth A. Morrison.....1974	Kent L. Knoernschild.....2010
* Robert Sheldon Stein.....1975	Stephen F. Rosenstiel.....2011
* John M. Schlick.....1976	J. Robert Kelly.....2012
* Charles L. Ziegler.....1976	Carl F. Driscoll.....2013
* Charles J. King.....1977	Julie A. Holloway.....2014
* Samuel E. Guyer.....1978	Jack Lipkin.....2015
* Roland W. Dykema.....1979	Steven Morgano.....2016
* Wade H. Hagerman, Jr.....1980	Gerald Santulli.....2017
* Robert D. Jeronimus.....1981	David Burns.....2018
* Lloyd L. Miller.....1982	Ariel Raigrodski.....2019
* John H. Emmert.....1983	* Stanley G. Vermilyea.....2020
* Alfred C. Macaluso.....1984	Radi Masri.....2021
* Ernest B. Mingledorff.....1985	James Dunne.....2022
Herbert Ptack.....1986	Jennifer Kuracina.....2023
* Ralph A. Yuodelis.....1987	Sarit Kaplan.....2024
* William D. Culpepper.....1988	

* Deceased



DR. SANGEETHA RAGHAVENDRA President, 2024-2025

Dear Friends,

As another year draws to a close, I am truly grateful for the opportunity to serve as your President. I would like to extend a warm welcome to our members, guests, graduate students, and our corporate sponsors and exhibitors. Thank you for being here and for your continued support. The Academy continues to thrive and remains strong, promoting education, research, camaraderie, and excellence in patient care. The Academy's volunteer-run model continues to be a cornerstone of our success. Throughout my years of involvement on the Board and various committees, I can truly say that the commitment of our Officers, Directors, Committee Chairs and Members is evident as their collective efforts culminate in a world-class annual meeting and what makes the Academy special. This year is no exception. The upcoming 74th annual meeting led by Program Chairs Dr. Jack Lipkin and Dr. Darshanjit Pannu, **World of Prosthodontics - an Interdisciplinary Journey** encompasses speakers who will present concepts and clinical techniques based on scientific evidence and their expert experience to enhance a provider's ability to plan, consult, refer, sequence, and achieve success in addressing a wide variety of complex patient care needs. Additionally, workshop co-chairs Dr. Dima Ghunaim and Dr. Alexander Bendayan have worked very hard to put together two value-added workshops, sponsored by Imagine USA and Nobel Biocare. The Academy continues to connect with the global prosthodontic community. Led by Immediate Past-President Dr. Sarit Kaplan, we are finalizing plans for a joint meeting with our Italian colleagues in Rome, Italy, from November 6th to 8th, 2025.

This year, we embarked on moving forward with a transformative journey that began shortly after the pandemic, prompting Academy leaders to explore strategic measures to chart a course for the future of our organization and strengthen our position as a leader in Prosthodontics. In consultation with legal counsel, the strategic recommendation to merge with the American Prosthodontic Society (APS) was announced after over four years of a thorough due diligence review with the main goal of preserving the rich traditions and best practices of both organizations. The respective Boards of Directors supported this careful and deliberate process that culminated in their unanimous endorsement of the strategic recommendation, to create a new nonprofit entity, the American Academy of Prosthetic Dentistry (AAPD), combining the memberships and assets of the AAFP and APS.

With approval of memberships of both organizations, the merger will take effect on March 30th, 2026. This timeline allows for a thorough transition process, addressing concerns, incorporating suggestions, and refining policies for the new organization. We look forward to your help and involvement during the transition period. As members, there are many opportunities to get involved and if interested in serving on committees especially during this transition period, please reach out to Dr. Doug Phillips and Dr. Carlo Ercoli.

It has truly been a privilege to serve as your President. I could not have done this without the guidance and mentorship of many Past Presidents. A special thanks to Dr. Martin Land for his continued mentorship and for sharing his invaluable historical perspective on the legacy of the Academy. The Academy is in excellent hands with the incoming leadership of Dr. Doug Phillips, whose dedication has been evident throughout his tenure as Treasurer, significantly contributing to its current financial strength.

Please enjoy the program and the opportunity to connect with friends in this vibrant city of Chicago!

Sincerely,
Sangeetha Raghavendra

OFFICERS AND DIRECTORS 2024-2025
STANDING COMMITTEES 2024-2025
AMERICAN ACADEMY OF FIXED PROSTHODONTICS

PRESIDENT

Sangeetha Raghavendra
108 Scoville Road Avon
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Phone: 860-992-9398
Email: raghavendra.aafp@gmail.com

PRESIDENT-ELECT

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Email: haizhang@uw.edu

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E-mail: soniprasad@yahoo.com

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Seung (Chris) Kee Choi
2206 Sussex Way, Woodstock, MD 21163
Phone: 443-630-8903
Email: cchoi1019@gmail.com

CREDENTIALS COMMITTEE

Fei Liu 2026 Chair
Maryam Mobarhan 2025 Secretary
Joseph Breitman 2026
Gillian Alexander Hazboun 2025
Roberta Wright 2026

JPD EDITORIAL LIAISON

Darshanjit Pannu

PROGRAM COMMITTEE

Jack Lipkin 2025
Darshanjit Pannu 2025
Ramtin Sadid-Zadeh 2026
Robert Walter 2026

LOCAL ARRANGEMENTS COMMITTEE

Dima Ghunaim 2026 Chair
Ramtin Sadid-Zadeh AV Consultant 2026
Aneequa Malik 2027
Charles Palin 2026
Steve Raney ad hoc

GEORGE MOULTON AWARD COMMITTEE

James (Bryan) McLoughlin 2026
Geoffrey Thompson 2026
Jane Brewer 2027
David Burns 2027
Edmond Bedrossian 2027

STRATEGIC PLANNING COMMITTEE

Jennifer Kuracina 2027 Chair
Sarit Kaplan, Immediate Past-President, Ex-Officio
Alejandro Peregrina 2027
Duane Douglas 2028
Douglas Phillips, President Elect, Ex-Officio
Carlo Ercoli Vice President, Ex-Officio

POSTER PROGRAM COMMITTEE

Konstantinos Vazouras 2029 Chair
Amara Abreu 2025
Rui Li 2027

TYLMAN RESEARCH COMMITTEE

Hongseok An 2028 Chair
Jianguo Tan 2025
Soraya Villarroel 2025
Elisandra Reyes-Perez 2025
David Burns 2028
Damian Lee 2028
Pantip Henprasert 2029
Daler Tarrazzi 2029

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Sarit Kaplan 2025 Chair
Jim Dunne 2025
Douglas Phillips 2025
Jennifer Kuracina 2026
Carlo Ercoli 2026

ARCHIVAL COMMITTEE

Phil Pierpont 2025 Chair
Myron Stein 2025
Martin Land ad hoc
Stephen Rosenstiel, Ex-Officio

BYLAWS COMMITTEE

Phil Pierpont, Parliamentarian and Chair
Gerry Santulli, Consultant

BUDGET AND FINANCE COMMITTEE

Duane Douglas 2026 Chair
Jack Marincel 2025
Douglas Phillips, President-Elect, Ex Officio
Carlo Ercoli, Vice-President, Ex Officio
Anthony Kritkauskys, Treasurer, Ex Officio

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Geoffrey Thompson Chair 2025
Ariel Raigrodski 2026
Stephen Rosenstiel, Ex Officio

PUBLICITY AND COMMUNICATIONS COMMITTEE

Akanksha Srivastava, Chair and Newsletter Editor, 2025
Alejandro (Alex) Peregrina 2027
Jennifer Kuracina 2027
Steve Rosenstiel Ex Officio

SOCIAL MEDIA SUBCOMITTEE

Akanksha Srivastava, Chair
Daher Antonio Queiroz
Shivani Suvarna
Vrinda Mohunta

ETHICS COMMITTEE

Carlo Ercoli, Chair
Craig Neitzke 2026
Anthony Kritkauskys 2025

CLAUDE R. BAKER TEACHING AWARD IN FIXED PROSTHODONTICS

Judy Yuan 2025 Chair
Ramtin Sadid-Zadeh 2026
Hesham Nouh 2026
Fatemeh Afshari 2025
Geoffrey Thompson 2026

INFORMATION TECHNOLOGY COMMITTEE

Seung (Chris) Kee Choi 2027 Chair
Loana Tovar Suinaga 2025
Akanksha Srivastava 2027

GARVER-STAFFANOU PROSTHODONTIC RESIDENCY EDUCATOR AWARD

Gillian Alexander Hazboun 2026 Chair
Mathew Kattadiyil 2027
Patchanee Rungruanganunt 2027
Julie Holloway 2025

EXHIBITS COMMITTEE

Judy Yuan 2027 Chair
Alexander Bendayan 2028
Fatemeh Afshan 2028
Soni Prasad ad hoc

RESEARCH IN FIXED PROSTHODONTICS

Committee A

Junying Li, 2026 Chair
Prajakta Shreeram Kulkarni
2026
Yu Chun (Jessie) Lin 2026

Committee B

Dean Morton 2025 Chair
Ramtin Sadid-Zadeh 2025
Kamolphob (Aek) Phasuk
2025

INVESTMENT COMMITTEE

Douglas Phillips 2025 Chair
Duane Douglas Budget & Finance Chair
Anthony Kritkauskys Treasurer
Robert Walter

COMMITTEE FOR CORPORATE SUPPORT

Jennifer Kuracina Chair
Judy Yuan, Exhibits committee chair
DJ Pannu, Program Chair
Hongseok An, Tylman Committee chair

STANDING PRESIDENTIAL APPOINTMENTS 2025-2026

PARLIAMENTARIAN

Phil Pierpont

SECRETARY FOR GUESTS

Anthony Kritkauskys

MEETING DIRECTOR

Damian Lee

CHAPLAIN

Sarita Arteaga

ACP PROSTHODONTIC FORUM REPRESENTATIVES

Sangeetha Raghavendra
Douglas Phillips, Alternate

PREVIOUS 1ST PLACE WINNERS OF THE TYLMAN AWARD

1979: James N. Ciesco	2002: Periklis Proussaefs
1980: Boris Schwartzman	2003: Luis Keys
1981: Timothy O. Hart	2004: Vanesåsa Swain
1982: Not awarded	2005: Philip Tan
1983: David Alan Chance	2006: Kelly Copps Wood
1984: Jeffrey L. Hudgins	2007: Heather J. Conrad
1985: George W. Kay	2008: Keith L. Guzaitis
1986: Anthony J. G. Dickinson	2009: Islam Khasawneh
1987: Izchak Bartzilay	2010: Daniel Domagala
1988: Susan E. Brackett	2011: Seok-Hwan Cho
1989: Not awarded	2012: Monica Parekh
1990: Shane N. White	2013: Matthew Anderson
1991: Not awarded	2014: Matilda Dhima
1992: Not awarded	2015: Aurora Dibner
1993: Louis Menegotto	2016: Diane Vo
1994: Syed Faheem Rasool	2017: William Wahle
1995: Fonda G. Robinson	2018: Michele Buda
1996: Paula K. Yliheikkila	2019: Ryan Mizumoto
1997: Kevin H. O'Boyle	2020: Nisha Patel
1998: David G. Gratton	2021: Not Awarded
1999: Douglas E. Ford	2022: Amir Hossein Nejat
2000: Reza Heshmati	2023: Brandon Yeager
2001: Salman A. Lakhani	2024: Christian Loo

*date listed is date awarded – award adjudicated in the preceding year

Special thanks to the
Editorial Council of the Journal of Prosthetic Dentistry
for ongoing support of the Tylman Research Program

PREVIOUS MOULTON AWARD RECIPIENTS

1992: George H. Moulton	2009: Steven Aquilino
1993: Ernest B. Nuttall Max Kornfeld	2010: Harold Litvak
1994: Robert J. Nelson	2011: Bill B. Lefler
1995: Everitt V. Payne	2012: Denny M. Smith
1996: Samuel E. Guyer	2013: Jesse T. Bullard
1997: Roland W. Dykema	2014: Stephen F. Rosenstiel
1998: Herbert T. Shillingburg, Jr.	2015: John R. Agar
2000: Lloyd L. Miller	2016: Carl Driscoll
2001: Ralph Yuodelis	2017: Martin F. Land
2002: Robert S. Staffanou	2018: J. Robert Kelly
2003: Maurice H. Martel	2019: Jane Brewer
2004: Ronald D. Woody	2020: William W. Nagy
2005: Charles J. Goodacre	2021: Not Awarded
2006: Kenneth Malament	2022: Jack Lipkin
2007: Stephen D. Campbell	2023: Not Awarded
2008: Don G. Garver	2024: Thomas Taylor

PREVIOUS BAKER AWARD RECIPIENTS

2003: Alvin Wee	2014: Alexander Bendayan
2004: Ariel Raigrodski	2015: Matthew Palermo
2005: Nyung G. Chang	2016: Fatemeh Afshari
2006: Patchnee Rungruanganunt	2017: Aaron Cho
2007: Shigemi Ishikawa-Nagai	2018: Natalie Buu Hastings
2009: Nadim Z. Baba	2019: Hesham Nouh
2010: Mijin Choi	2020: Not awarded
2011: Lillian M. Mitchell	2021: Ramtin Sadid-Zadeh
2012: Judy C-C Yuan	2022: Not Awarded
2013: Not Awarded	2023: Jonathan Esquivel
	2024: Foteini Touloumi

PREVIOUS GARVER-STAFFANOU PROSTHODONTIC RESIDENCY EDUCATOR AWARD RECIPIENTS

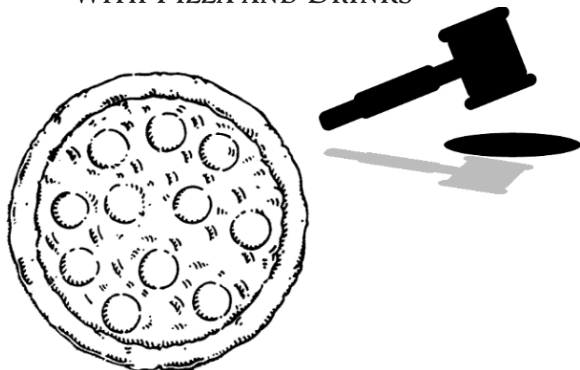
2010: Gerald Ziebert	2018: Julie Holloway
2011: Carl Jerry Andres	2019: Not awarded
2012: John R. Agar	2020: Geoffrey Thompson
2013: William Nagy	2021: Matthew Kattadiyil
2014: Carl Driscoll	2022: Not Awarded
2015: Wayne Campagni	2023: Kent Knoernschild
2016: Hiroshi Hirayama	2024: Radi Masri
2017: Steven Aquilino	

PREVIOUS HONORARY MEMBERS

1956: Oscar P. Snyder	1976: Ralph Phillips
1958: Arthur O. Klaffenbach	1976: Robert J. Nelsen
1958: Ralph W. Malone	2012: Charles Gibbs
1959: George M. Hollenback	2019: Allen Steinbock
1961: Floyd A. Peyton	

MEMBERS ANNUAL BUSINESS MEETING AND WELCOME RECEPTION

WITH PIZZA AND DRINKS



THURSDAY, FEBRUARY 20, 2025

4:30 – 5:00 PM

EARLY REGISTRATION FOR MEMBERS

5th Floor, Chicago Foyer

5:00 – 7:00 PM

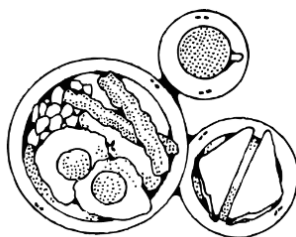
MEMBERS ANNUAL BUSINESS

MEETING WITH PIZZA AND CASH BAR

5th Floor, Chicago Ballroom D

Attendance at these events is restricted to Academy Members.

PAST PRESIDENTS' AND NEW MEMBERS' BREAKFAST



Saturday, February 22, 2025

7:00 AM,

LINCOLNSHIRE 1 AND 2

(6th Floor)

New Members, Past Presidents, Officers, Directors only please.

2025 PROGRAM CO-CHAIRS



Dr. Jack Lipkin & Dr. Darshanjit Pannu

2024 PROGRAM CO-CHAIRS



Dr. Lauren Bolding & Dr. Anton Petrich

2026 PROGRAM CO-CHAIRS



Dr. Ramtin Sadid-Zadeh & Dr. Robert Walter

EXHIBITOR DIRECTORY

Dr. Judy Yuan, Chair, Exhibits Committee

All breakfasts and coffee breaks are located in the Exhibit Hall, Salon III, 7th Floor

Company	Booth
35NEWTONS	131
Brasseler USA	132
Clear Choice Dental Implants	120
Cosmedent	117
Cusp Dental Laboratory	104
Designs for Vision, Inc.	101
GBR Medical	137
Great Lakes Dental Technologies	122
Hi-Point Dental Lab Inc	113
Imagine USA	116
Ivoclar*	127
j REFINING	103
Kettenbach LP	128
Kuraray America Inc.	102
Nuvia Dental Implant Centers	105
Nobel Biocare*	129
Quintessence Publishing Co. Inc	124-125
SAM Prazisionstechnik GmbH	100
Southern Implants North America	119
Smart on X	130
Straumann*	121
TruAbutment	136
US Navy Dental Recruiting	114-115
Weave	123
Whip Mix Corp	118

*Silver or Workshop Sponsor

The American Academy of Fixed Prosthodontics
74th Annual Scientific Session
Friday, February 21, 2025
The Chicago Marriott Hotel Downtown
5:15 – 7:00 p.m. Chicago Ballroom, 5th Floor

1. Tylman Award First Place Winner:
Enamel wear and fatigue resistance of 3D-printed resin compared to lithium disilicate
Presenter: Dr. Pranit Bora
Mentor: Dr. Nathaniel Lawson
University of Alabama at Birmingham
pvbora@uab.edu
2. Tylman Award Second Place winner:
The accuracy of a facebow record: A comparison between conventional facebow and smartphone 3D scanner
Presenter: Dr. Hasan Yousuf
Mentor: Dr. Junying Li
University of Michigan
hyousify@umich.edu
3. Tylman Award Third Place winner:
Assessment of mechanical properties and microstructure of Co-Cr dental alloys manufactured by casting, milling, and 3D printing
Presenter: Dr. Ana Schettini
Mentor: Dr. Igor Pesun
University of Manitoba
anasche@myumanitoba.ca
4. Fatigue and thermocycling failure load of 3D-printed and milled composite resin copings
Presenter: Dr. Fahad Alqahatani
Mentor: Dr. Russell Giordano II
Boston University
falqatni@bu.edu
5. The role of interproximal contacts in implant-supported crown stability: A finite element analysis study
Presenter: Dr. Bahaa Rabah
Mentor: Dr. Konstantinos Michalakis
Boston University
brahbah@bu.edu
6. The effects of material thicknesses and substrates on the translucency and color masking ability of additively manufactured definitive crown materials
Presenter: Dr. Ting Wang
Mentor: Dr. Wei-Shao Lin
Indiana University
twa5@iu.edu

7. Restoration of an implant with limited interproximal space due to a drifting molar
 Presenter: Dr. Elizabeth Rubalcava
 Mentor: Dr. Lin, Wei-Shao
 Indiana University
 elirubal@iu.edu
8. Optimizing full-arch implant prosthesis outcomes with digital planning and anatomical reduction template
 Presenter: Dr. Weiqing Liu
 Mentor: Dr. Wei-Shao Lin
 Indiana University
 weiqliu@iu.edu
9. A comprehensive clinical management of severe dental fluorosis: A case report
 Presenter: Dr. Haya Tariq AlSharif
 Mentor: Dr. Chao-Chieh Yang
 Indiana University
 hayalsha@iu.edu
10. Rehabilitation for a gunshot injury case with implants and fixed dental prostheses
 Presenter: Dr. Metavi Phuckdeedindan
 Mentor: Dr. Chao-Chieh Yang
 Indiana University
 mephuck@iu.edu
11. Digital workflow for space-preserving interim restoration in a growing patient
 Presenter: Dr. Apisit Akarapattananukul
 Mentor: Dr. Chao-Chieh Yang
 Indiana University
 apakara@iu.edu
12. Utilization of dual-purpose grammetry scan bodies for a full arch fixed implant prosthesis
 Presenter: Dr. Suonds Alareifi
 Mentor: Dr. Chao-Chieh Yang
 Indiana University
 sundusalarifi@hotmail.com
13. The Effect of posterior teeth morphology, support configuration, and build angulation on the number of isolated islands in a 3D printing slicing software
 Presenter: Dr. Mohamed Aref
 Mentor: Dr. Amir H. Nejat
 Louisiana State University
 maref@lsuhsc.edu
14. Novel 3D-printed palatal expansion device optimizing full mouth restorative protocols
 Presenter: Dr. Matthew J. Turner
 Mentor: Dr. Stacy Yu
 Naval Postgraduate Dental School
 mjtturner@buffalo.edu

15. Navigating challenging patient presentations when utilizing an optical jaw tracking system
Presenter: Dr. Madeleine Domenech
Mentor: Dr. Stacy Yu
Naval Postgraduate Dental School
madeleine.n.domenech@gmail.com
16. Dual use of a modified ISFCD for guided surgery and healing
Presenter: Dr. Salma Elsaadany
Presenter: Dr. Julia Collazo
Mentor: Dr. Stacy Yu
Naval Postgraduate Dental School
jcollazo93@gmail.com
17. Use of photogrammetry in implant supported full arch reconstructions in conjunction with analog workflow
Presenter: Dr. Jung Min Kwon
Mentor: Dr. Joshi Niranjana
NOVA Southeastern University
jmkdream@gmail.com
18. Implant angulation correction in a full-arch fixed prosthesis
Presenter: Dr. Sejal Jain
Mentor: Dr. Niranjana Joshi
NOVA Southeastern University
sj1594@mynsu.nova.edu
19. Accuracy of artificial-intelligence-based implant planning software in the planning of single implants
Presenter: Dr. Satita Leelaluk
Mentor: Dr. Kedith Sawangsri
Ohio State University
leelaluk.1@osu.edu
20. The effect of intraoral scan body design on digital scan accuracy
Presenter: Dr. Ghislain Cohen
Mentor: Dr. Rui Li
Ohio State University
cohen.1293@buckeyemail.osu.edu
21. Accuracy of AI software in margin detection and 3-unit FDP contour design
Presenter: Dr. Mariam Bakkali
Mentor: Dr. Kedith Sawangsri
Ohio State University
bakkali.1@buckeyemail.osu.edu
22. The effect of surface and heat treatments on phase composition, crystal size, strain, and topography of high-cubic zirconia material: A pilot study
Presenter: Dr. Filipe Parente
Mentor: Dr. Hanin Hammoudeh
Ohio State University
parente.19@buckeyemail.osu.edu

23. Digital workflow for an anterior Resin bonded FDP reduction guide
Presenter: Dr. Sana Ghiba
Mentor: Dr. Paola Saponaro
Ohio State University
sghiba1@gmail.com
24. Utilizing a subperiosteal implant to restore a severely atrophic maxilla
Presenter: Dr. Gregory Wilkins
Mentor: Dr. Jennifer Sabol
Uniformed Services University, United States Army
gnw224@nyu.edu
25. Retained primary molars. Do they belong in a 30-year-old's mouth?
Presenter: Dr. Michael E. Chew
Mentor: Dr. Jennifer V. Sabol
Uniformed Services University, United States Army
michaelchewdmd@gmail.com
26. Fracture resistance on 3D-printed crowns: Print angulation versus surface finish
Presenter: Mr. Alec Gechoff
Mentor: Dr. Mario Ramos
Midwestern University
alec.gechoff@midwestern.edu
27. Prosthetic rehabilitation post-implant failure: Transition from fixed prosthesis to locator-bar-retained denture
Presenter: Dr. Ibrahim Alhussain
Mentor: Dr. Edward Chao Chien
Rutgers School of Dental Medicine
ibrahim.khuss@gmail.com
28. Comparison between accuracy of toggle and beam-type dental implant torque wrenches
Presenter: Dr. Deven Mahesh Rawlani
Mentor: Dr. Chao Ho-Chien
Rutgers University
devenrawlani2@gmail.com
29. Creating a shade guide for gingival characterization in dental prosthetics using spectrophotometry
Presenter: Dr. Justin Cortina
Mentor: Dr. Jacqueline Chow
Texas A&M University
jcortina@tamu.edu
30. Achieving optimal fit in complete arch screw-retained implant prostheses with digital workflows
Presenter: Dr. Nada Alsulaiman
Mentor: Dr. Hyeongil Kim
University of Buffalo
Nadaalsu@buffalo.edu

31. Effect of thermocycling to the color stability of various crown materials
 Presenter: Dr. Abdullah AlBaghli
 Mentor: Dr. Rui Li
 University of Buffalo
 atalbagh@buffalo.edu
32. Color stability and surface roughness of different CAD/CAM polymer teeth materials
 Presenter: Dr. Azhar Samargandi
 Mentor: Dr. Rui Li
 University of Buffalo
 azharsam@buffalo.edu
33. Fixed locator overdenture: an alternative to an implant-supported fixed prosthesis
 Presenter: Dr. Yazan Dalbah
 Mentor: Dr. Hyeongil Kim
 University of Buffalo
 yazandal@buffalo.edu
34. Restorative treatment in patients with amelogenesis imperfecta: A case study
 Presenter: Dr. Syed Zaeem Raza
 Mentor: Dr. Hyeongil Kim
 University of Buffalo
 szraza2@buffalo.edu
35. Impact of surface treatment on bond strength in 3D printed dental crowns
 Presenter: Dr. Mohammed Hammamy
 Mentor: Dr. Nathaniel Lawson
 University of Alabama at Birmingham
 mhammamy@uab.edu
36. Shear bond strength to ceramics with different primers
 Presenter: Dr. Silvia Rojas Rueda
 Mentor: Dr. Nathaniel Lawson
 University of Alabama at Birmingham
 srojasru@uab.edu
37. Comparison of two interim prostheses designed for immediate loading using stackable guides
 Presenter: Dr. Priscila Ceolin Meneghetti
 Mentor: Dr. Ramtin Sadid-Zadeh
 University of Alabama at Birmingham
 pceolinm@uab.edu
38. Prosthetic management of severely malpositioned implants in an edentulous maxilla: A clinical report
 Presenter: Dr. Pranjal Daundkar
 Mentor: Dr. Ramtin Sadid-Zadeh
 University of Alabama at Birmingham
 daundkar.pranjal@gmail.com

39. Full-mouth rehabilitation using implant-supported fixed prosthesis for mutilated dentition: A case report
Presenter: Dr. Abraham John
Mentor: Dr. Ramtin Sadid-Zadeh
University of Alabama at Birmingham
ajohn2@uab.edu
40. Scannable facebow use in the fabrication of a 3D-printed occlusal guard
Presenter: Dr. Katherine Malyszek
Mentor: Dr. Ramtin Sadid-Zadeh
University of Alabama at Birmingham
malyszekkatherine@gmail.com
41. CAD-CAM verification-seating jig to verify implant positions from various systems
Presenter: Dr. Surabhi Chhabra
Mentor: Dr. Ramtin Sadid-Zadeh
University of Alabama at Birmingham
chhabra@uab.edu
42. A simplified impression-less technique for complete arch fixed implant supported prosthetic treatment
Presenter: Dr. Audrey Brigham
Mentor: Dr. Avinash Bidra
University of Connecticut
brigham@uchc.edu
43. A novel workflow for fabrication of a same-day 3D-printed conversion prosthesis
Presenter: Dr. Ilana Goldberg
Mentor: Dr. Avinash Bidra
University of Connecticut
igoldberg@uchc.edu
44. Unique surgical and prosthodontic experiences using a novel single-drill implant system
Presenter: Dr. Paul Sim
Mentor: Dr. Avinash S. Bidra
University of Connecticut
sim@uchc.edu
45. Florid cemento-osseous dysplasia in complete arch fixed implant supported prosthodontic patients
Presenter: Dr. Naeem Motlagh
Mentor: Dr. Avinash Bidra
University of Connecticut
motlagh@uchc.edu
46. A fully digital approach to full-arch implant-supported fixed prostheses
Presenter: Dr. Lily Fayz
Mentor: Dr. Leila Ahmadian
University of Illinois at Chicago
fayz2@uic.edu

47. Biocompatibility of titanium surface coated with ZrO₂-TiO₂ through atomic layer deposition
Presenter: Dr. Jennifer Chang
Mentor: Dr. Bin Yang
University of Illinois at Chicago
jychang012@gmail.com
48. Digital workflow for surgical and prosthetic rehabilitation of a fully edentulous patient
Presenter: Dr. Zaid Hikmat
Mentor: Dr. Dima Ghunaim
University of Illinois at Chicago
zhikma2@uic.edu
49. Effect of toothpaste with charcoal on CAD/CAM lithium disilicate ceramic
Presenter: Ms. Bayaan Jabr
Mentor: Dr. Franciele Floriani
University of Iowa
bayaan-jabr@uiowa.edu
50. Providing patient comfort and predictability during a complex full-mouth rehabilitation process
Presenter: Dr. Danielle Delattre Franco
Mentor: Dr. David Donatelli
University of Louisville
dodelao6@louisville.edu
51. Digital solution for maxillary full arch rehabilitation of misaligned maxillary implants
Presenter: Dr. Tarik Pravinkumar Patel
Mentor: Dr. Igor Pesun
University of Manitoba
drtarikpatel@gmail.com
52. Survival rate of restorations with endodontic access done post cementation in Canadian dental school
Presenter: Mr. Amir Vatanpour
Mentor: Dr. Anthony Nowakowski
University of Manitoba
amirvatanpour97@gmail.com
53. Management of implant complications due to early implant placement and maxillary growth
Presenter: Dr. Mario Hertanto
Mentor: Dr. Berna Saglik
University of Michigan
mariohe@umich.edu
54. Economic smartphone-based full-arch implant scan using deep learning: In vitro accuracy study
Presenter: Dr. Fatma Mohamed
Mentor: Dr. Junying Li
University of Michigan
fmohamed@umich.edu

55. Fixed full mouth rehabilitation of a Sjogren's syndrome patient using dental implants
Presenter: Dr. Andreas Onisiforou
Mentor: Dr. Berna Saglik
University of Michigan
oandreas@umich.edu
56. Influence of virtual facebow designs on the accuracy of face scan
Presenter: Dr. Marcel Hertanto
Mentor: Dr. Junying Li
University of Michigan
marcelhe@umich.edu
57. Artificial intelligence in overcoming prosthodontic challenges - Managing amelogenesis imperfecta: A case report
Presenter: Dr. Ahmed Gabir
Mentor: Dr. Berna Saglik
University of Michigan
agabir@umich.edu
58. An abbreviated implant protocol for immediate implant placement and provisionalization: A case report
Presenter: Dr. Salma Elsaadany
Mentor: Dr. Berna Saglik
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salmaels@umich.edu
59. Digital workflows for full-arch implant prosthesis IOS vs photogrammetry: A probing review
Presenter: Dr. Salman Alajmi
Mentor: Dr. Saglik
University of Michigan
salajmi@umich.edu
60. Virtual patient-assisted completely digital workflow for full mouth rehabilitation: A case report
Presenter: Dr. Yu Jen Chen
Mentor: Dr. Berna Saglik
University of Michigan
yujenc@umich.edu
61. Full mouth reconstruction with lithium disilicate in amelogenesis imperfecta: A case report
Presenter: Dr. Jason Kwak
Mentor: Dr. Warren Stoffer
University of Pittsburgh
yik9@pitt.edu
62. Periodontal-restorative digital planning for rehabilitating worn anterior teeth in a high-esthetic-demand case
Presenter: Dr. Vivian Song
Mentor: Dr. Stavroula Antonopoulou
University of Pittsburgh
vis159@pitt.edu

63. Trueness analysis of additive and subtractive methods for temporary tooth restorations
Presenter: Dr. Yolanda Natali Raico Gallardo
Mentor: Dr. Gabriel Nima
University of Pittsburgh
YNG3@pitt.edu
64. Esthetic management of missing lateral incisor and space distribution
Presenter: Dr. Zahra Meykadeh
Mentor: Dr. Gonzalez
UT-Health Science Center at Houston
zmeykadeh@gmail.com
65. Employing digital techniques for the fabrication of implant-supported interim crowns: A case report
Presenter: Dr. Yi-Chen Chen
Mentor: Dr. Maria Gonzalez
UT-Health Science Center at Houston
wxes50326@gmail.com

THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS
SEVENTY-FOURTH ANNUAL SCIENTIFIC SESSION
FRIDAY, FEBRUARY 21, 2025

WORLD OF PROSTHODONTICS - AN INTERDISCIPLINARY JOURNEY

- 7:00 a.m. Registration, 7th Floor Foyer
Continental Breakfast in Exhibit Hall, Salon III
- 8:00 a.m. WELCOME:
Dr. Sangeetha Raghavendra, President
Introductory Remarks, Drs Jack Lipkin & Darshanjit Pannu,
Program Co-Chairs
- 8:15 a.m. Dr. Rhodri Thomas
An Aesthetic Journey: Creating Beauty by Recreating
Nature
- 9:00 a.m. Dr. Galip Gurel
Past, Present, Future of Esthetic Dentistry
- 9:45 a.m. REFRESHMENT BREAK IN THE 7th FLOOR EXHIBIT HALL
All members, guests and students invited
- 10:30 a.m. Dr. Petra Gierthmuehlen
Minimally Invasive Dentistry: From Myth to Evidence
- 11:15 a.m. Dr. Daniel Edelhoff
Evolution of Zirconia Ceramics - From Traditional to
Gradient Technology
- 12:00 p.m. ANNUAL LUNCHEON FOR MEMBERS, GUESTS, AND
STUDENTS
5th Floor Chicago Ballroom
- 2:00 p.m. Dr. Rade Paravina
Color in Esthetics - Biometric Disruption, Bench to Chairside
- 2:45 p.m. Dr. Lesley David
The Realities of Zygomatic Implants in Maxillary
Rehabilitation
- 3:30 p.m. BREAK IN THE 7th FLOOR EXHIBIT HALL
All members, guests and students invited
- 4:15 p.m. Dr. Brian Goodacre
Digital Dentures for the Implant Patient
- 5:00 – ANNUAL MEMBER & GUEST COCKTAIL RECEPTION &
7:00 p.m. ANNUAL POSTER SESSION
Chicago Ballroom, 5th Floor
All members, guests and students invited

THE AMERICAN ACADEMY OF FIXED PROSTHODONTICS
SEVENTY-FOURTH ANNUAL SCIENTIFIC SESSION
SATURDAY, FEBRUARY 22, 2025

WORLD OF PROSTHODONTICS - AN INTERDISCIPLINARY JOURNEY

- 7:00 a.m. Registration, 7th Floor Foyer
Continental Breakfast in Exhibit Hall, Salon III
- 8:00 a.m. Dr. Gary Klasser
Occlusion and Temporomandibular Disorders
- 8:45 a.m. Dr. Rebecca Bockow
The Healthy Face - Evaluating and Creating Harmony
Between the Lips, Tongue, Joints, Periodontium, Airway,
and Teeth.
- 9:30 a.m. REFRESHMENT BREAK
IN THE 7th FLOOR EXHIBIT HALL
All members, guests and students invited
- 10:15 a.m. POSTER AWARDS
Dr. Carol Lefebvre
Dr. Konstantinos Vazouras, Poster Committee Chair
- 10:30 a.m. Dr. Jamison Spencer
Bruxism's Possible Connection to Sleep Apnea: Known
for Decades, But Still Mostly Ignored
- 11:15 a.m. Dr. Taiseer Sulaiman
Clinical and Science-Based Elements of Lithium
Disilicate and Zirconia Restorations. What Every Dental
Professional Must Know!
- 12:00- LIGHT LUNCHEON
- 1:30 p.m. Food Served in the 7th Floor Exhibit Hall, Salon III
(Exhibits will close at the start of the afternoon program)
- 1:30 p.m. Dr. John Kois
Improving Clinical Outcomes: Why Restorations Fail
- 2:15 p.m. Dr. Rella Christensen
Dental Caries: New Methods Reveal New Insights
Relevant to Clinical Treatments
- 3:10 p.m. Dr. Rodrigo Neiva
Building a Solid Foundation for Oral Rehabilitation with
LASSO GBR
- 4:00 p.m. CLOSING REMARKS
Dr. Sangeetha Raghavendra, President
Dr. Jack Lipkin, Program Co-Chair
Dr. Darshanjit Pannu, Program Co-Chair

For more Information about the Academy visit the AAFP Website:
www.fixedprosthodontics.org



DR. RHODRI THOMAS

An Aesthetic Journey: Creating Beauty
by Recreating Nature

Friday, February 21, 2025 | 8:15 a.m.

Synopsis:

This lecture will explore the nature of teeth using 3D digital concepts, appreciating the beauty of each detail, delving into light and optics and each unique structure. The planning and delivery of advanced cases will be discussed alongside step by step techniques and clinical cases to show how to achieve a seamless and natural result using resin.

Learning Objectives:

- To understand the structures and nuances of teeth and how ageing affects their optical properties.
- How to pre-visualise the anatomy of cases in 3D to ensure predictable aesthetic results.
- How to use the correct shades and opaques to blend restorations into nature and replicate anatomical features.

Curriculum Vitae:

Dr Rhodri Thomas graduated with Honours from Cardiff University. His background as an artist spurred on his love of aesthetic dentistry and now dedicates his work towards truly blending dentistry into nature with his clinical focus on advanced aesthetic restorative dentistry.

Rhodri lectures and teaches around the world on the subject of aesthetics, presenting at conferences, running private courses and publishing articles in leading dental magazines. He was the winner of British Society of Prosthodontics Heraeus Kulzer Prize for his research on tooth wear and has also pioneered a new resin layering technique. Rhodri has been the youngest speaker for the American Academy of Cosmetic Dentistry, published author for the prestigious Journal of Cosmetic Dentistry and has received a record breaking six consecutive national awards. Rhodri is also the author of three books based purely on resin artistry and developer of both two unique resin materials and a new dental instrument.

Passionate about teaching and sharing with other dental professionals, Rhodri is honoured to be Resident Faculty at both The Centre for Esthetic Excellence in Chicago and Stribe Dental in New York. He is also founder and director of The Art of Dentistry, a series of unique international training programs and aesthetic-based courses that has now trained thousands of dentists. He believes every clinician has a natural creative ability inside of them and enjoys nothing more than helping to ignite it.



DR. GALIP GUREL

Past, Present, Future of Esthetic Dentistry

Friday, February 21, 2025 | 9:00 a.m.

Synopsis:

Creating of a 'New smile design' and its execution comes from our past experiences, present experiments and their reflection for the future expectations.

In today's dentistry regardless of how complex a case is, the patients will not be happy if the final aesthetic outcome will not fit their expectations. Therefore it is imperative that outlines of the final smile design should be communicated with the patient even before the treatment planning is decided and approved. For an aesthetically and functionally successful case this is mandatory and called the PRE-VISUALISATION. The dentist should never start any procedure without visualising the final result at the very beginning of the whole treatment.

However in order to pre-visualise the final smile design in the mouth, in 3D, it needs certain tasks to be realised. Going back to basics, the simplistic approach to that will be the application of the direct mock up in the mouth. Even though it appears to be a simple task, in reality in order to get a true realistic design, that needs a solid communication between the dentist, specialist(s) and the lab.

Recently with the introduction of smart softwares that you can design these cases digitally, the most precise and repeatable communication between the team, patient and the lab can be achieved.

Learning Objectives:

- Importance of the mock up
- Digital vs direct design
- Reality behind minimal invasive fabrication

Curriculum Vitae:

Dr. Galip Gurel graduated from the University of Istanbul, Dental School in 1981. He continued his education at the University of Kentucky, Department of Prosthodontics. Received his MSc degree from Yeditepe University in, Istanbul.

Dr. Gurel is the founder and the honorary president of EDAD (Turkish Academy of Aesthetic Dentistry). He was the President of the European Academy of Esthetic Dentistry (EAED) for 2011 & 2012. He received "The Smigel" award in October 2014 which is granted biennially by New York University College of Dentistry to honor the best esthetic dentists in the world. He is a visiting professor at the New York University (USA), Marseille Dental University (France) and Istanbul Yeditepe University (Turkey). He is the author of "The Science and Art of Porcelain Laminate Veneers" published by Quintessence publications in 2003 translated into 13 different languages. He has been practicing in his own clinic in Istanbul, specializing in Aesthetic Dentistry, since 1984.



DR. PETRA GIERTHMUEHLEN

Minimally invasive dentistry: From
Myth to Evidence

Friday, February 21, 2025 | 10:30 a.m.

Synopsis:

The shift in fixed prosthodontics from conventional to minimally invasive treatments is supported by the enduring clinical success of all-ceramic restorations. Progress in all-ceramic and CAD/CAM material systems, coupled with digital planning and fabrication, allows for the creation of innovative treatment approaches for rehabilitating severely compromised dentition using high-strength glass and translucent zirconia ceramics. Digital face scans and novel CAD/CAM applications offer a standardized manufacturing process, resulting in a reliable, predictable and economic workflow for complex rehabilitations. Moreover the esthetic outcome with respect to color and appearance of these restorations and their integration into the facial harmony is superior. The lecture will showcase case series and scientific evidence related to the enduring clinical success of all-ceramic materials and digital restorative technologies.

Learning Objectives:

- Gaining Insight into Emerging Technologies in Digital Dentistry.
- Emphasizing the Benefits of Contemporary CAD/CAM Materials and Comprehensive Digital Workflows.
- Showcasing Case Series and Scientific Evidence on the Clinical Success of CAD/CAM Materials and Associated Minimally Invasive Preparation Designs.

Curriculum Vitae:

Dr. Gierthmuehlen, graduated and received her DDS from Albert-Ludwigs University, Freiburg, Germany in 2001. She was an Assistant Professor (2001-2006) at the Department of Prosthodontics (Chair Prof. Dr. Dr. h.c. J.R. Strub), University, Freiburg, Germany and is a Board certified Prosthodontist (2005) of the German Society of Prosthodontics and Dental Materials (DGPro). From 2006-2009 she was a Visiting Scientist at the Department of Biomaterials & Biomimetics (Chair Prof. Dr. V.P. Thompson), NYU, New York, USA. In 2009 Dr. Gierthmuehlen was appointed Associate Professor at the Department of Prosthodontics, University, Freiburg, where she accomplished the Habilitation in 2011. Since 2016 she is Professor and Chair of the Department of Prosthodontics at the Heinrich-Heine University in Duesseldorf, Germany.



DR. DANIEL EDELHOFF

Evolution of Zirconia Ceramics - From Traditional to Gradient Technology.

Friday, February 21, 2025 | 11:15 a.m.

Synopsis:

Since the introduction of zirconia ceramic into dentistry in the 1990s, indications and compositions have changed significantly. The increasing number of long-term clinical studies support the confidence into the material in different fields of fixed prosthodontics, from different types of implant abutments to multi-unit FDPs. The lecture will give an overview over different types of zirconia ceramic, its indications and latest results of clinical studies.

Learning Objectives:

- Attendees will be able to classify various types of zirconia ceramic according to their composition.
- To identify mechanical and optical properties of different zirconia types as selection criteria for correct indication.
- Attendees will learn how to translate these facts to its clinical usage based on results of clinical studies.

Disclosure Statement: Dr. Edelhoff receives financial support for research projects with 3M, AmannGirrbach, Camlog, Dentsply Sirona, Heraeus Kulzer, Komet Dental, Ivoclar, Straumann, VDW, zirkonzahn.

Curriculum Vitae:

Daniel Edelhoff is currently Director and Chair at the Department of Prosthetic Dentistry at the Ludwig-Maximilians-University (LMU) in Munich. He is board certified Specialist in Prosthodontics and member of the advisory board of the German Society of Prosthodontics and Biomaterials, as well as Fellow of the American Academy of Esthetic Dentistry (AAED). Daniel Edelhoff received 2011/2012/2013 three awards "Best Teacher" by the dental students of the LMU and the Bavarian Association of Dentists. Since 2014 he is Active Member of the European Academy of Esthetic Dentistry (EAED) as well as Section Editor of the multidisciplinary international research journal Clinical Oral Investigations. 2016 he became President of the German Association of Dental Technology (ADT) and 2019 Dean of Studies in Dental Medicine at LMU. 2021 he was the Scientific Chairman of the 1st EAED Virtual Meeting.



ANNUAL
ACADEMY
LUNCHEON
CHICAGO BALLROOM
5th Floor

Friday, February 21, 2025 12:00 p.m.

2025 STANLEY D. TYLMAN RESEARCH AWARDS*
DR. HONGSEOK AN, CHAIR, TYLMAN RESEARCH COMMITTEE

FIRST PLACE AWARD

DR. PRANIT BORA

UNIVERSITY OF ALABAMA AT BIRMINGHAM.

MENTOR: DR. NATHANIEL LAWSON

SECOND PLACE AWARD

DR. HASAN YOUSUF

UNIVERSITY OF MICHIGAN

MENTOR: DR. JUNYING LI

THIRD PLACE AWARD

DR. ANA SCHETTINI

UNIVERSITY OF MANITOBA

MENTOR: DR. IGOR PESUN

CLAUDE R. BAKER FACULTY AWARD

DR. JUDY YUAN, CHAIR BAKER AWARD COMMITTEE

DR. JUNYING LI

2025 RECIPIENT

GARVER-STAFFANOU PROSTHODONTIC PROGRAM

PROGRAM DIRECTOR'S AWARD FOR EXCELLENCE

DR. GILLIAN ALEXANDER HAZBOUN, CHAIR,

GARVER-STAFFANOU AWARD COMMITTEE

DR. STEVEN MORGANO

2025 RECIPIENT

GEORGE H. MOULTON AWARD OUTSTANDING ACHIEVEMENT

IN THE ART AND SCIENCE OF FIXED PROSTHODONTICS

DR. BRYAN MCLOUGHLIN, CHAIR, GEORGE H. MOULTON AWARD COMMITTEE

DR. VAN RAMOS

2025 RECIPIENT

PRESENTATION OF NEW AAFP MEMBERS

DR. FEI LIU, CHAIR, CREDENTIALS COMMITTEE

*We wish to acknowledge the generous support of the Editorial Council of the Journal of Prosthetic Dentistry for the Tylman Research Program.



DR. LESLEY DAVID

The Realities Of Zygomatic Implants
In Maxillary Rehabilitation

Friday, February 21, 2025 | 2:45 p.m.

Synopsis:

Zygomatic implants have become a fairly common way to rehabilitate the severely atrophic maxilla. As such, patients today have various options from which to choose regarding full mouth rehabilitation. Zygomatic implants allow for less invasive and less time consuming solutions. It is, therefore, paramount that clinicians understand their indications, limitations, and the realities of this treatment solution. This lecture will delve into the world of zygomatic implants for both the patient and clinician to allow for a greater understanding of its application, benefits, and potential pitfalls. The “success” criteria regarding these implants will also be discussed.

Learning Objectives:

- To understand why you need to know about zygomatic implants (ZI).
- To review the role of zygomatic implants.
- To understand what patients undergo when treated with zygomatic implants.
- To discuss the great, the good, and the ugly of zygomatic implants.
- To understand the success criteria of Zis.

Curriculum Vitae:

Dr. Lesley David is an oral and maxillofacial surgeon who maintains a private practice in Toronto, Canada. She is an Associate Clinician at the University of Toronto in the Oral and Maxillofacial Surgery Clinic, a Fellow and past examiner of the Royal College of Dentists of Canada and is on staff at the Mt. Sinai Hospital and The Trillium Hospital. Dr. David is a remedial course provider for the Royal College of Dentists of Ontario in oral and maxillofacial surgery and implant dentistry. She served as an Emerging Leader Council Member for the Foundation for Oral Rehabilitation and is also a key opinion leader for various industry related corporations. Dr. David is a member of the Osseointegration Foundation Board of Directors and is on the Advisory Committee for DC Institute. Dr. David has numerous publications in implant dentistry, lectures internationally on various topics in implant dentistry and oral and maxillofacial surgery, and is a co-founder of Global Dental Mentorship.



DR. RADE PARAVINA

Color in Esthetics - Biometric
Disruption, Bench to Chairside

Friday, February 21, 2025 | 3:30 p.m.

Synopsis:

A balance of function, longevity, and esthetics is the best predictor of patient satisfaction. The increased expectations when it comes to esthetics outcomes underline the essential role of color and appearance in the success of a restoration. This lecture will provide an overview of the most recent scientific developments related to the intersection of biomimetics and technology (including artificial intelligence and digital dentistry), and their clinical application. Examples and practical suggestions for enhanced functional esthetics in the dental office and laboratory will be covered. The discussion includes the nature of color, the evidence-based interpretation of clinical results, material selection, quality control, computer modeling for “white” and “pink,” and the relevance of translucency. Traditional and advanced approaches will be contrasted to address present drawbacks and provoke a paradigm shift. Information will be provided from the most reputable clinical, scientific, and educational resources

Learning Objectives:

- Understand the nature of color appearance and visual thresholds in dentistry and their clinical relevance from the day-to-day dentistry point of view.
- Review and contrast traditional (empirical) and contemporary (evidence-based) approaches to tooth color matching, communication, and reproduction.
- Compare the “pink” related issues and solutions.

Curriculum Vitae:

Rade D. Paravina, DDS, MS, PhD, is a tenured professor at UTHealth Houston School of Dentistry in the Department of Restorative Dentistry and Prosthodontics, and he serves as director of the John M. Powers, PhD, Center for Biomaterials and Biomimetics.

He is the founder and past president of the Society for Color and Appearance in Dentistry and a recipient of the 2014 Jerome M. and Dorothy Schweitzer Research Award of the Greater New York Academy of Prosthodontics.

Dr. Paravina is President-Elect of the American Academy of Esthetic Dentistry and serves as Editor-in-Chief of the Journal of Esthetic and Restorative Dentistry (JERD, Wiley, Impact Factor, IF=3.2).



DR. BRIAN GOODACRE

Digital Dentures for the
Implant Patient

Friday, February 21, 2025 | 4:15 p.m.

Synopsis:

This lecture will review the benefits of digital dentures and how intraoral scanner can be used to streamline the clinical workflow. From an immediate denture, overdenture, or fixed complete denture, digital dentures have many applications. The digital denture three-appointment workflow will be discussed, and multiple clinical examples reviewed to show how digital dentures can be used for the implant patient.

Learning Objectives:

- Review clinical workflows for digital overdentures
- Discuss how intraoral scanners streamline your digital denture workflow.
- Explore how to use digital dentures for the fixed complete denture patient

Curriculum Vitae:

Dr. Brian J. Goodacre received his DDS degree from Loma Linda University School of Dentistry in 2013. He completed a four-and-a-half-year combined program in Prosthodontics and Implant Dentistry at Loma Linda University School of Dentistry in 2017, earning an MSD degree. He is a board-certified prosthodontist and the director of clinical technologies for Nobel Biocare North America. He is an adjunct professor at Loma Linda University School of Dentistry providing lectures to both dental and graduate students. Dr. Goodacre lectures both nationally and internationally on topics related to digital dentistry, prosthodontics, and implant dentistry. Additionally, he has published over twenty articles in peer-reviewed journals and contributed to 6 textbook chapters. He maintains a private practice located in Upland, California where he practices with his father and classmate.



DR. GARY KLASSER

Occlusion and Temporomandibular Disorders

Saturday, February 22, 2025 | 8:00 a.m.

Synopsis:

Clearly, occlusion and dentistry are intimately related as being a cornerstone in dentistry. Attention to the principles and details of occlusion are fundamental components on performing dentistry to its highest standard while ultimately benefiting our patients. Recognition and understanding of occlusion and its influence on the stomatognathic system are critical concepts that every dental practitioner embraces on a daily basis. However, the relationship between occlusion and temporomandibular disorders (TMD) is less obvious. Over the years, due to scientific inquiry, this relationship has become controversial and, at times somewhat contentious, resulting in impassioned discussion and debate among both clinicians and researchers. This presentation will explore these issues through the lenses of current evidence-based scientific principles.

Learning Objectives:

- Recognize the relationships between occlusion and temporomandibular disorders (TMD).
- Appreciate the debate and controversies that exist regarding the relationship between occlusion and temporomandibular disorders (TMD)..
- Understand the current scientific evidence as it relates to the subject matter and its associated issues.

Curriculum Vitae:

Dr. Gary D. Klasser obtained his dental degree from the University of Manitoba (Canada) in 1980. Over the next 22 years, he enjoyed the practice of general dentistry from both a public health and private practice perspective until he returned to graduate studies in 2002. In 2004, he completed his training and graduated from the University of Kentucky with a Certificate in Orofacial Pain. In 2005, he completed a fellowship in Oral Medicine/Oral Oncology at the University of Illinois at Chicago (UIC). From 2005 – 2011, he was an Assistant Professor and Director of the Oral Medicine/Orofacial Pain clinic at the College of Dentistry in the University of Illinois at Chicago. Currently, he is a Professor in the Department of Diagnostic Sciences at Louisiana State University, School of Dentistry and a Fellow of the American Academy of Orofacial Pain. Dr. Klasser has published numerous peer reviewed scientific articles while contributing many chapters to various textbooks. He also serves as an associate editor or as an editorial reviewer for a number of journals. He is also co-editor of several textbooks related to oral and facial pain and is a Past-President of the American Academy of Orofacial Pain.



DR. REBECCA BOCKOW

The Healthy Face - Evaluating and creating harmony between the lips, tongue, joints, periodontium, airway, and teeth.

Saturday, February 22, 2025 | 8:45 a.m.

Synopsis:

The healthy face and a healthy occlusal scheme relies on harmony between the lips, tongue, joints, periodontium, airway, and the teeth. Early compensation patterns affect facial growth and development. Soft tissues such as the tongue, lips, cheeks, tonsils and adenoids influence growth. Certain habits and airway-related issues can contribute to adverse skeletal changes early in growth. In this course, we will discuss how compensation patterns influence skeletal growth. We will examine similar malocclusions in children and adults, and discuss how the treatment plans differ, depending on the age and skeletal maturation of the patient. For adolescents, our treatment plans will focus on growth modification. For adults, we will explore both surgical and non-surgical options, including adult TAD expansion, as we derive the ideal comprehensive treatment plan.

Learning Objectives:

- Digital/virtual planning, communication, documentation and Recognize how dysfunctional habits and patient compensations lead to common malocclusions
- Understand interdisciplinary treatment strategies for early intervention.
- Learn surgical and non-surgical treatment strategies for adult treatment.

Curriculum Vitae:

Dr. Rebecca Bockow received her dental degree from the University of WA School of Dentistry. Upon graduation, Dr. Bockow practiced as a restorative dentist in Seattle. In 2013, she completed her dual training in both Orthodontics and Periodontics from the University of Pennsylvania School of Dental Medicine, where she also earned a Masters in Oral Biology.

Dr. Bockow is a board-certified orthodontist and periodontist. She is a resident faculty at Spear Education, and lectures to audiences internationally on topics including interdisciplinary treatment planning, airway and sleep disorders, skeletal growth and development, surgical treatment planning, TAD expansion, and corticotomy-facilitated orthodontic therapy.

Dr. Bockow maintains a private practice in Seattle and Bellevue, limited to orthodontics.



DR. JAMISON SPENCER

Bruxism's possible connection to sleep apnea: known for decades, but still mostly ignored

Saturday, February 22, 2025 | 10:30 a.m.

Synopsis:

For decades we have blamed grinding and clenching of the teeth on

1. Stress and 2. Malocclusion. While certainly emotional stress and occlusal factors can play a role in the etiology of bruxism, for many patients obstructive airway issues are a major driving factor. In this presentation Dr. Spencer will take the audience on an evidence based journey, and makes a strong case that the so called "parafunction" that wreaks havoc on our patient's teeth and on our best restorations may actually be "protective" in nature. This understanding may help with the diagnosis and actual treatment of the true underlying etiology of the bruxism.

Learning Objectives:

- Review the literature regarding possible connections between bruxism and obstructive sleep apnea.
- Discuss use of night guards and oral appliances for sleep apnea and their effects on bruxism muscle activity.
- How to screen your patients for possible sleep apnea related bruxism, and when to refer for a sleep evaluation.

Curriculum Vitae:

Dr. Jamison Spencer is the director of the Centers for Sleep Apnea and TMJ, in Boise Idaho and Salt Lake City Utah. Dr. Spencer is the Past-President of the American Academy of Craniofacial Pain (AACP), a Diplomate of the American Board of Craniofacial Pain, a Diplomate of the American Board of Dental Sleep Medicine, a Diplomate of the American Board of Craniofacial Dental Sleep Medicine and has a Masters in Craniofacial Pain from Tufts University. He taught head and neck anatomy at Boise State University, and is adjunct faculty at the University of Utah School of Dental Medicine.



DR. TAISEER SULAIMAN

Clinical and Science-Based
Elements of Lithium Disilicate and
Zirconia Restorations. What Every
Dental Professional Must Know!

Saturday, February 22, 2025 | 11:15 a.m.

Synopsis:

There is a scarcity of evidence-based research supporting the use of contemporary ceramics in dental practices today. Poor clinical trials eventually lead to poor systematic reviews, and load to failure laboratory tests have little clinical relevance. This leaves clinicians in doubt about which ceramic restorative material is best for their patients. The presentation will focus on lithium disilicate and monolithic zirconia, including the various generations. This will include a discussion of mechanical and optical properties, wear of natural antagonists, as well as ceramic adjustment, finishing, and polishing. A series of new retrospective studies will also be introduced to evaluate the survival of these ceramics.

Learning Objectives:

- Understand the mechanical (including wear characteristics) and optical properties of lithium disilicate and zirconia materials, as well as their implications for clinical practice.
- Determine the best preparation design and cementation procedure for each ceramic material.
- Evaluate the projected clinical success of these two materials, based on the most current research.

Curriculum Vitae:

TAY-see-er SU-la-men 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 from 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 80 peer-reviewed articles, abstracts, and book chapters. He is a member of many academies including the Academy of Operative Dentistry (where he serves as councilor to the academy), the Society of Color and Appearance in Dentistry, IADR/AADR, and the American Dental Association. He has presented on numerous national and international stages and serves as a reviewer for many peer-reviewed journals.



DR. JOHN KOIS

Improving Clinical Outcomes:
Why Restorations Fail

Saturday, February 22, 2025 | 1:30 p.m.

Synopsis:

The ability to provide patient care that yields a predictable outcome for restorative dentistry is dependent upon an individualized risk assessment for your patient.

Unfortunately, the majority of data utilized in making decisions regarding patient care is based on survival analysis, which is procedure-generated and may not accurately reflect the individual needs of your patient. This program will provide a conceptual framework for clinical practice that will create a paradigm shift in the way we interface with our patients and collect data. This presentation will lead to more successful strategies regarding the integration of restorative dentistry.

Learning Objectives:

- The importance of standardized data collection leading to improved data analysis.
- To reduce confusion regarding the different modes of failure for natural teeth.
- To develop critical risk parameters to improve survival probability for natural teeth.

Curriculum Vitae:

Dr. Kois received his D.M.D. from the University of Pennsylvania, School of Dental Medicine and Certificate in Periodontal Prosthodontics with a M.S.D. degree from the University of Washington, School of Dentistry. He maintains a private practice limited to Prosthodontics in Tacoma and Seattle and is an Affiliate Professor in the Graduate Restorative Program at the University of Washington. In addition, Dr. Kois works with restorative dentists at the Kois Center, a didactic and clinical teaching program, and continues to lecture nationally and internationally. Dr. Kois is the past President of both the American Academy of Restorative Dentistry and American Academy of Esthetic Dentistry and is a member of numerous other professional organizations. He also serves as a reviewer for many journals and is the coEditor in Chief for The Compendium of Continuing Education in Dentistry. Dr. Kois is the recipient of the 2002 Saul Schluger Memorial Award for Clinical Excellence in Diagnosis and Treatment.

Additionally, he is the recipient of the 2014 Dr. Thaddeus V. Weclaw Award, which is presented annually to a dedicated educator who embodies the spirit of comprehensive dental care.



DR. RODRIGO NEIVA

Building a Solid Foundation for Oral
Rehabilitation with LASSO GBR

Saturday, February 22, 2025 | 2:00 p.m.

Synopsis:

Historically, alveolar ridge preservation and development have focused on volumetric changes with little attention to tissue quality. The aim of this presentation is to discuss disadvantages, and realistic short- and long-term expectations of traditional methods of alveolar ridge development for implant therapy and to discuss advantages of LASSO GBR, a contemporary method of alveolar ridge development, designed to maximize tissue quality.

Learning Objectives:

- Rationale for absorbable scaffolds in tissue augmentation procedures.
- Material selection based on material properties and features.
- Management of complex alveolar ridge defect.

Curriculum Vitae:

Dr. Neiva has authored and co-authored more than 100 scientific papers and book chapters in the fields of periodontics and implant dentistry. After obtaining his D.D.S. in Brazil, Dr. Neiva continued his education at the University of Michigan, School of Dentistry, where he earned a Certificate and a Master's Degree in Periodontics. In 2004, Dr. Neiva was appointed Clinical Assistant Professor in the Department of Periodontics and Oral Medicine at the University of Michigan, School of Dentistry before advancing to Clinical Associate Professor in 2009. He joined the faculty at the University of Florida, College of Dentistry, in 2010, serving as Clinical Associate Professor and Graduate Program Director in the Department of Periodontology. In 2017, he was awarded full Clinical Professorship, a position he held until his transition to the University of Pennsylvania School of Dental Medicine where he served as Chairman of Periodontics from 2019 to 2024. Consistently recognized for his commitment to excellence in academic dentistry, Dr. Neiva has received numerous teaching awards throughout his career, including the Distinguished Faculty Award (2004), Best Clinical Faculty Award (2005), Outstanding Clinical Instructor Award (2007, 2008 & 2010), and the American Academy of Periodontology Educator Award (2006 & 2016). He is a Fellow in the Pierre Fauchard Academy and the American College of Dentists, as well as a Diplomate of the American Board of Periodontology and the International Congress of Oral Implantology. Dr. Neiva currently serves as Board Examiner for the American Board of Periodontology and as an Adjunct Clinical Professor at Temple University Kornberg School of Dentistry.



DR. RELLA CHRISTENSEN

Dental Caries: new methods reveal
new insights relevant to clinical
treatments

Saturday, February 22, 2025 | 2:15 p.m.

Synopsis:

Research methods developed at TRAC Research using aseptic systematic dissection of dental caries lesions in situ followed by genetic sequencing are revealing new information. A key finding shows that STOPPING progression of established dental caries lesions requires inactivation of the microbes at the lesion's advancing front. How is the advancing front found clinically? How are the microbes inactivated? This presentation takes you visually into clinical dental caries lesions to answer these questions.

Learning Objectives:

- List characteristics of microbes that enable them to survive within the tooth.
- Explain why tooth preparations alone do not stop lesion progression.
- Use a microbe inactivation method that targets key factors necessary to arrest the lesion, then support and protect the tissue injured by the microbes.

Curriculum Vitae:

Dr Christensen founded TRAC Research in 2002 after co-founding and directing Clinical Research Associates (CRA) for 27 years. In 2023 TRAC Research was invited by Dr W. Rory Hume, Dean of the University of Utah School of Dentistry, to collaborate and to be funded by the Dental School for further development of the dental caries research methods pioneered at TRAC Research. As a non-dentist, Dr. Christensen has been honored with memberships in the American College of Dentists, International College of Dentists, American Academy of Esthetic Dentistry, and the Academy of General Dentists.



DR. ARIEL

RAIGRODSKI

The Evolution Of Zirconia From a Framework to a Monolithic Restorative Material - An Evidence-Based Clinical Perspective

RESERVE SPEAKER

Synopsis:

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 of 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.

Curriculum Vitae:

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 many other journals. 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 over 100 scientific articles, abstract, and book chapters, Dr. Raigrodski's research is mainly clinical and focuses on zirconia, 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.



DR. THOMAS TAYLOR
Myths in Implant Dentistry

RESERVE SPEAKER

Synopsis:

Opinions vary widely as to what the critical issues are in success/survival of dental implants for the long term. This presentation will focus on several key factors that are presumed to determine success and survival of dental implants. Peri-implantitis and modes of prosthesis retention are associated with implant complications. This presentation will focus on the available evidence and will attempt to make some sense out of this widely diverse evidence.

Learning Objectives:

- Understand how multiple factors can affect bone levels adjacent to implants.
- Be aware of multiple etiologies for peri-implant disease.
- Understand current best evidence for peri-implant disease.
- Know factors that can reduce the risk of implant bone loss.
- Be familiar with current trends in peri-implant disease.

Curriculum Vitae:

Dr. Taylor holds the Endowed Thomas D. Taylor Chair of Prosthodontics and is professor and head, Department of Prosthodontics at the University of Connecticut School of Dental Medicine. He is involved in both clinical and laboratory research and has published extensively in the prosthodontic literature. He is a past editor of the International Journal of Oral and Maxillofacial Implants and past president of the Greater New York Academy of Prosthodontics, American College of Prosthodontists, International College of Prosthodontists, Academy of Prosthodontics, and the International Team for Implantology (ITI). Dr. Taylor served for 18 years as executive director of as well as being past president of the American Board of Prosthodontics.

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CONTEMPORARY RESTORATIVE MATERIALS: ADVANCES AND
CHALLENGES

DR. TODD R. SCHOENBAUM
PROSTHETIC IMPLANT COMPLICATIONS: CAUSES, PREVENTION,
AND MANAGEMENT

DRS. JIM JANAKIEVSKI AND GREG KINZER
TBD

DR. PHILIPPE KHAYAT
SURVIVING THE PERI-IMPLANT MAELSTROM: EFFICIENT
TREATMENT STRATEGIES FOR THE FAILING IMPLANT

DR. NAIF SINADA
TOOTH/IMPLANT SUPPORTED COMPLETE ARCH REHABILITATION

DR. HUSSEIN BASMA
MASTERING PERI-IMPLANT SOFT TISSUE CHALLENGES: A
COMPREHENSIVE PROS-PERIO APPROACH

DR. WEI-SHAO LIN RESERVE SPEAKER
TECHNOLOGIES AND INNOVATION ADVANCEMENTS IN
RESTORING COMPLETE EDENTULOUS PATIENTS WITH DENTAL
IMPLANTS

DR. SAIF SINADA
“MODERN (SURGICAL & PROSTHETIC) RECONSTRUCTION:
A NEW APPROACH”

RESERVE
DR. WEI-SHAO LIN
“TECHNOLOGIES AND INNOVATION ADVANCEMENTS IN
RESTORING COMPLETE EDENTULOUS PATIENTS WITH
DENTAL IMPLANTS”

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