

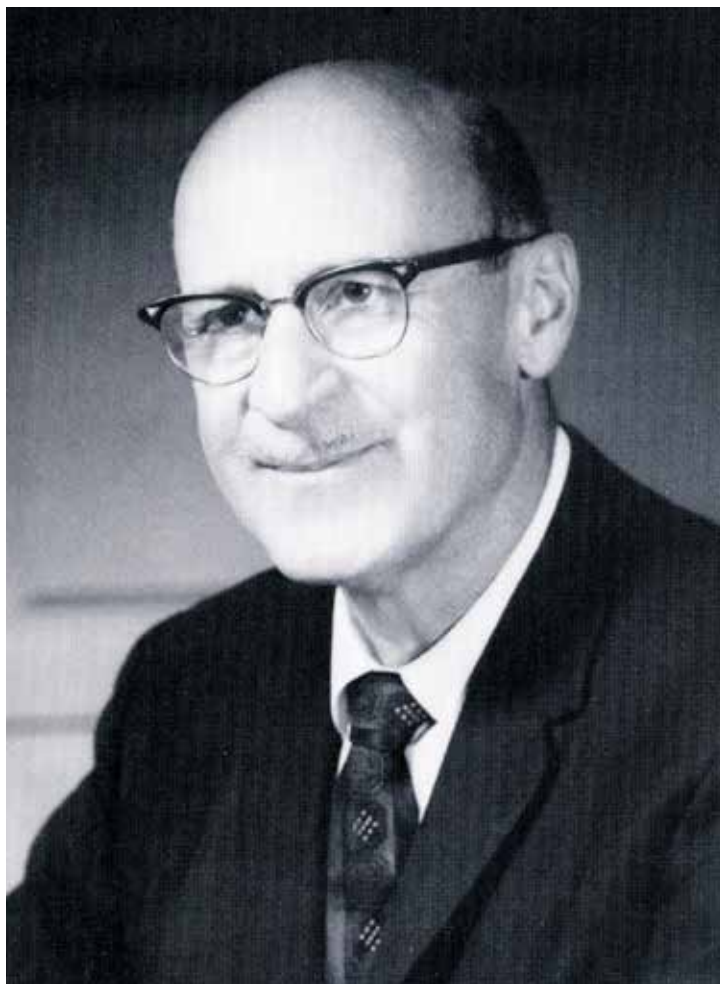
April 28, 2023

57th

ANNUAL
CARL O. BOUCHER

**PROSTHODONTIC
CONFERENCE**

Marriott Columbus University Area
3100 Olentangy River Road



Dr. Carl O. Boucher

1904 - 1975

The Carl O. Boucher Prosthodontic Conference was established to provide continuing education in the art, science, and practice of prosthodontics. It is dedicated as a living tribute to Dr.

Carl O. Boucher, who devoted himself to the advancement of prosthodontics and the teaching of all who desire to advance their knowledge in this discipline of dentistry.

The 57th Annual Carl O. Boucher Prosthodontic Conference



Welcome!

Welcome to the Carl O. Boucher Prosthodontic Conference. This is the 57th event that honors Dr. Boucher, an alumnus of our College of Dentistry and a nationally renowned leader in the field of prosthodontics.

This conference is special for many reasons. It brings dental professionals together who are dedicated to the art and science of prosthodontics, and who have many interests and goals in common. It educates participants about what is new, and it is a celebration of the longstanding tradition that began with the first Carl O. Boucher conference in 1966.

This year's presentations include an array of topics, such as implant-supported restorations, sleep-related bruxism, polymer-infiltrated ceramics, and more. The lectures will be informative and useful. And this is a great opportunity to reconnect with friends and colleagues, as well as getting acquainted with the next generation of prosthodontists.

I offer you all a warm welcome, and I thank you for joining us at this event!

Very best regards,

Dean Carroll Ann Trotman

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PAST PRESIDENTS

Alexander L. Martone* 1967	Dale L. Cipra 1997
Julian B. Woelfel* 1968	Robert E. McKinstry 1998
Judson C. Hickey* 1969	C. Vito Caponigro 1999
Davis Henderson* 1970	Manny Chopra 2000
Alan D. Fee 1971	John T. Kennard 2001
Ralph H. Cunningham* 1972	Arturo J. Mendez 2002
Milton H. Brown* 1973	John W. Payne 2003
Allen A. Brewer* 1974	Barbara A. Churchill 2004
William R. Laney 1975	John E. Boyles 2005
Charles W. Ellinger 1976	Michel G. Venot 2006
Theodore E. Logan 1977	J. Gregory Wall 2007
Charles D. Krouse* 1978	Wayne V. Campagni 2008
Myron R. Porter 1979	Alejandro Peregrina 2009
James W. Davis 1980	Duane A. Burks 2010
James E. Ryan 1981	Edwin A. McGlumphy, Jr. . 2011
James C. Hickey* 1982	Marco T. Padilla 2012
John L. Shannon 1983	Julie Holloway 2013
H. D. Deane, Jr.* 1984	Robert Faulkner 2014
C. Gordon Monteith* 1985	Stephen Rosenstiel 2015
W. Brock Love 1986	Soraya Villarroel 2016
Howard J. Charlebois 1987	Roland Pagniano, Jr. 2017
Paul Pressler 1988	James Soltys..... 2018
Donald J. Mauthe* 1989	Lisa Knobloch..... 2019
William A. Welker* 1990	Damian Lee 2020
Edwin V. Kluth 1991	Damian Lee 2021
Douglas V. Chaytor 1992	Alfredo Hernandez..... 2022
David P. Donatelli 1993	
Frank E. Pulskamp 1994	* Deceased
Ernest D. Svensson* 1995	
Robert A. Strohaber 1996	

THE 57th ANNUAL CARL O. BOUCHER
PROSTHODONTIC CONFERENCE
SCIENTIFIC PROGRAM

FRIDAY, APRIL 28, 2023

- 7:30 - 7:45 AM **Registration & Breakfast Buffet**
- 7:45 - 8:00 AM **Opening Remarks by Dean Trotman & President Dr. Bruce Miller**
- 8:00 - 9:00 AM **Dr. Wei-Shao Lin**
“Restoring Edentulous Patients with Contemporary Technologies and Dental Implants”
- 9:00 - 10:00 AM **Dr. Valerie McMillan**
“Educational Opportunities using Digital Dentures”
- 10:00 - 10:15 AM **Refreshments Break—Visit Vendors**
- 10:15 - 11:15 AM **John McMillan**
“The Human Technician – Details Behind Creating Dental Prostheses”
- 11:15 - 12:30 PM **Dr. Celin Arce**
“Perio-Pros Integration in the Digital Era”
- 12:30 - 1:30 PM **Luncheon**
- 1:30 - 2:40 PM **Dr. Sompop Bencharit**
“In Office 3D Printing Applications for Implant Guided Surgery”
- 2:40 - 3:00 PM **Dr. Ariana Rodriguez**
“Anodization and Titanium Ion Leakage”

3:00 - 3:20 PM	Dr. Jeff Chen “Patient Centered and Clinical Outcomes of Implant-Supported Restorations”
3:20 - 3:40 PM	Refreshment Break—Visit Vendors
3:40 - 4:00 PM	Dr. Christian Loo “Evaluation of Wear in Milled and Printed Polymer-infiltrated Ceramic-Network”
4:00 - 5:30 PM	Dr. Davis Thomas “Sleep Related Bruxism”
5:30 - 5:50 PM	General Assembly (Members Only) Treasurer Report, Election, Photo
5:50 - 7:30 PM	Poster Presentation Reception

CONTINUING EDUCATION CREDIT HOURS
Friday, April 28, 2023 (10 hours)

Reserved Speaker

Dr. Lisa Knobloch

“Treatment Considerations for the Replacement of Missing Teeth in Growing Patients”

Future Conference Dates

April 19, 2024

Save the Date for 2024

Our 2024 conference date will be April 19, 2024!

Featured Speakers for 2024 Include:

Dr. Ed McLaren

Mr. Amir Juzbasic, MDT

More to be announced!

Scan the QR code below to visit CarloBoucher.com and stay up-to-date on next year's conference.



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Dr. Wei-Shao Lin

“Restoring Edentulous Patients with Contemporary Technologies and Dental Implants”

Dr. Wei-Shao Lin is a tenured Professor, Program Director in the Advanced Education Program in Prosthodontics; Chair, at the Department of Prosthodontics; Co-Director of the ITI Scholarship Center, at Indiana University School of Dentistry. He received a DDS in 2003 from Chung-Shan Medical University, Taiwan; a Certificate in Prosthodontics and a Certificate in Surgical Implant Fellowship at the University of Rochester in 2010. Dr. Lin also received a PhD in Educational Leadership and Organization Development at the University of Louisville in 2020, and an MBA at the University of Southern Indiana in 2022. Dr. Lin’s research interests include clinical dental implant research, ceramic restorations, and digital dentistry, and has published more than 90 research and clinical articles in peer-reviewed journals. Dr. Lin is a Diplomate of the American Board of Prosthodontics and a Fellow of the International Team for Implantology (ITI) and the American College of Prosthodontists. Dr. Lin serves on several editorial boards and is a reviewer for several dental journals. He is an associate editor for the Journal of Prosthodontics. He maintains an intramural dental implant and prosthodontics practice at the Indiana University School of Dentistry.

Synopsis

The treatment of complete and/or single arch edentulism remains a significant priority for dental clinicians. Patients also have emphasized immediate load or restorations with dental implants and often request complex full-arch treatments with shorter treatment times and fewer appointments. This presentation will begin with a review of diagnosis and treatment planning for edentulous patients. This topic will be followed by a discussion of proper case selection, loading protocols, team approach, and prosthetic procedures that play a role in complex therapies. In concert with these topics, new materials, technologies, and prosthetic



Dr. Valerie McMillan

“Educational Opportunities using Digital Dentures”

Dr. McMillan’s prosthodontics training and Master of Science in Dentistry was completed at The Ohio State University in 2009. She received her Doctor of Dental Surgery degree at The Ohio State University in 2006. Dr. McMillan practices together with her husband John McMillan, dental technician, who also shares her passion for all things dentistry and promotes new ideas and techniques in the field. She is most passionate about removable dentures and loves to share her work in the denture world. Every year Dr. McMillan offers free dentures to patients during National Prosthodontics Awareness Week with the goal to help many patients by using technology like 3D printing.

Synopsis

Dr. McMillan shares her experience using digital dentures especially as it relates to education. She shares how making digital dentures opens up new ways to teach vital skills to students and practicing dentists. Never before have we been able to systematically demonstrate how lip support, occlusal plane, and incisal edge position interact to affect esthetics, phonetics, and function. This presentation covers the changes in denture making that digital techniques demand, how digital techniques can be used to teach, and tips for selecting demonstration patients. This presentation is not only useful for those in formal education but doctors in private practice who want fresh ideas for study club activities.



John McMillan

“The Human Technician – Details Behind Creating Dental Prostheses”

John McMillan is a dental technician with more than 30 years of experience. He began at age 17 after hearing about a job opportunity for “artists”. He enjoys the hand made aspect of dental technology most, however he incorporates digital technology when it is best. John loves to share his work online in order to help others learn and become more passionate about dental technology. He gives presentations and courses locally and internationally on the topic of ceramics, custom staining, and full-arch implant prostheses. John McMillan and his wife Dr. Valerie McMillan make a unique team in the dental field, she designs prosthetics digitally and John hand shapes, colors, and finishes them.

Synopsis

In this presentation John McMillan will present the details that the human touch contributes to prosthodontics. While digital techniques are required to fabricate most prostheses today, he shows how dental technicians are vital in hand shaping, coloring, and finishing beyond any machine's ability. He reviews how a prosthesis begins taking shape whether from wax or a digital library and how the human touch can modify each step. He demonstrates how studying nature is the key when hand finishing restorations. For the dentist this presentation is a unique look over the shoulder of a human technician.



Dr. Celin Arce

“Perio-Pros Integration in the Digital Era”

Dr. Celin Arce is a board-certified prosthodontist. He received his dental degree from University Latina of Costa Rica, he completed residency in Advanced Prosthodontics at University of Alabama at Birmingham and Master of Science in Clinical Dentistry. He’s a Diplomate of the American Board of Prosthodontics and a Fellow of the American College of Prosthodontists. He is currently Assistant Professor of the Restorative Sciences Department at the University of Kentucky College of Dentistry. His practice limited to esthetics and implants.

Synopsis

During this course a comprehensive review of current protocols and techniques required to perform a proper diagnosis and treatment plan will be described. Problem solving options and limitations that are common during the treatment of our patients will be presented. This course will also highlight contemporary digital armamentarium available for the interdisciplinary team in order to optimize results.

Course Objectives:

1. Revise key elements of interdisciplinary treatment planning.
2. Define how we effectively collaborate between surgical, restorative and laboratory disciplines in the digital workflow.
3. Review current intraoral digital impression capabilities and integration with 3D printing/milling in interdisciplinary complex cases
4. Describe clinical workflows in perio-pros implant cases with guided surgery and immediate restorations.



Dr. Sompop Bencharit

“In Office 3D Printing Applications for
Implant Guided Surgery”

Dr. Sompop Bencharit is Professor and Assistant Dean for Innovation at the Medical University of South Carolina (MUSC) College of Dental Medicine. He was the Founding Director of Digital Dentistry Technologies and Director of Clinical Research at the Virginia Commonwealth University (VCU). He received his DDS and Diploma in Prosthodontics from Chulalongkorn University, Bangkok, Thailand; and his Certificate and Masters Degree in Prosthodontics, a PhD in Oral Biology, as well as a Certificate in Clinical Research from the University of North Carolina at Chapel Hill (UNC). He is a Diplomate of the American Board of Prosthodontics and a Fellow of the American College of Prosthodontists (ACP), the Pierre Fauchard Academy, and the International College of Dentists. He was recently awarded the 2021 ACP Distinguished Researcher Award. He has published over 90 peer reviewed articles and over 100 published abstracts. He is currently serving as Associate Editor for the Journal of Prosthodontics, Academic Editor for PLoS ONE, Scientific Editorial Board Member for Scientific Reports, Editorial Board for the American Academy of Implant Prosthodontics, and Editorial Contributor for the ADA/Elsevier PracticeUpdate Clinical Dentistry. He currently serves as Director for the International Association for Dental Research/American Association for Dental, Oral, and Craniofacial Research (IADR/AADOCR)-Prosthodontic Research Group. He is also serving as Research Committee Member for the ACP and American Academy of Osseointegration (AO).

Synopsis

Advances in implant guided surgery have evolved from the development of intraoral scanning, cone beam computed tomography, dental implant computer-aided treatment planning, and most recently in-office stereolithography or 3D printing. These advancements allow clinicians to fabricate accurate surgical guides economically in their office. The



Dr. Ariana Rodriguez

“Anodization and Titanium Ion Leakage”

Dr. Ariana Rodriguez is from Los Angeles, CA. She graduated from the University of Southern California School of Dentistry in 2020. She enjoys running, hiking and spending time with her family.

Synopsis

Implant treatment is an integral treatment modality used to rehabilitate the oral cavity. Titanium and its alloys are used in both the implant fixtures and implant abutments where a definitive prosthesis can be connected. This presentation will discuss current pilot study attempting to evaluate the presence of titanium ion release in artificial saliva with varying pH's, titanium commonly used in dentistry, and different anodization voltages.



Dr. Jeff Chen

“Patient Centered and Clinical Outcomes of Implant-Supported Restorations”

Jeffrey Chen hails from the heart of Illinois, Peoria. He graduated dental school from Southern Illinois University in 2018 and completed an AEGD at Southern Illinois University in 2019. He worked as a private practice dentist for 1 year before entering

The Ohio State’s Prosthodontic program in 2020.

Synopsis

When an implant has been successfully placed and restored we deem that a successful treatment. A lot of time and effort has been spent evaluating surgical and prosthetic success, however often overlooked is patient reported outcomes. Whether the implant and prosthesis has correctly developed proper soft tissue contouring, color, thickness, and position. Our definition of success differs from one clinician to another, similar to what we consider esthetic. It is known that there will be biological and even prosthetic changes over time. Will the patient’s perspective change as well? The aim of this review is to evaluate patient based and clinical outcomes specifically focusing maxillary anterior sextant.



Dr. Christian Loo

“Evaluation of Wear in Milled and Printed Polymer-infiltrated Ceramic-Network”

Dr. Christian Loo is from Montreal, Canada, and is currently a senior at The Ohio State University Advanced Prosthodontics residency program. He received his Doctor of Dental Medicine from McGill University and went on to receive a certificate in Advanced Education in General Dentistry at

the University of Connecticut.

Synopsis

Because of the difficulty standardizing the parameters and conditions needed to test and measure wear, there is currently no regulatory requirement or international standard for wear of dental materials, yet it can dramatically affect restorative treatment outcomes. This presentation will discuss the findings of a study comparing the wear properties of a novel printed polymer-infiltrated ceramic-network (PICN) that was recently approved for use as final restorative material, to milled PICN.



Dr. Davis Thomas

“Sleep Related Bruxism”

Dr. Davis Thomas completed his Bachelor of Dental Surgery (BDS) from India. He received his Doctor of Dental Surgery (DDS) and one year of Advanced Education in General Dentistry from NYU. While in private practice, he then went on to further his education in the following twenty years to include multiple master's degrees including orofacial pain (MSD from Rutgers University), headache pain management (MSc from University of Edinburgh), and sleep medicine (MSc Med from University of Sydney). As an assoc. clinical professor (14 years), Dr. Thomas now continues his research in Pain Management at Rutgers School of Dental Medicine and Eastman Dental Center, Rochester, New York . The experience and education Dr. Thomas has acquired over the years has allowed him to lecture extensively all around the world. He has been a commissioned officer in the United States Army since 2001. He also has multiple faculty appointments in national and international hospitals and universities. Currently, he is the director for OFP/TMD/ Sleep medicine courses for Roseman University/Smile USA Academy.

Synopsis

Sleep related bruxism (SRB) is one of the most misconstrued, poorly understood, and misdiagnosed entity in dentistry. For the longest time, SRB was considered to be a “habit”. It is currently classified by the American Academy of Sleep Medicine as a “Sleep Related Movement Disorder”. The diagnosis of SRB could be confirmed by polysomnography (overnight sleep study) and not merely by patient report, or oral findings of dental attrition. The dental clinician must understand that the severity of bruxism is poorly correlated with pain. Considerable loss of dentist time occurs as a consequence of SRB, in terms of restorations and/or tooth fracture, debonding of composites or possibly even failure of implants. This short presentation is intended to make the clinician understand the basic principles of diagnosis and possible short and long term management of SRB.

Table Clinic Poster Presentations

Dr. Ghislain Cohen

"The efficacy of articaine through local infiltration for fixed prosthodontic procedures"

The Ohio State University College of Dentistry

Dr. Catherine Arreaza

"Digital workflow for fabrication of full arch long-term provisional for growing patients with Ectodermal Dysplasia"

The Ohio State University College of Dentistry

Dr. Hassan Alamri

"Fracture Resistance of Endodontically Treated Teeth Restored with Fiber Posts Luted with Composite Core Materials"

The Ohio State University College of Dentistry

Dr. Rajat Rathi

"Using thermoplastic denture for immediate fixed dental prosthesis"

The Ohio State University College of Dentistry

Dr. Omar Moustafa

"Provisionalization of anterior implant crown using double anodization"

The Ohio State University College of Dentistry

Dr. Weiqing Liu

"Digital workflow for esthetic crown lengthening using static computer-aided approach"

Indiana University School of Dentistry

Dr. Suonds Alareifi

"Overcoming Challenges in Treatment Planning for Complete Denture in a Patient with Limited Space"

Indiana University School of Dentistry

Dr. Eman Al Kaba

"Effect of Scanning Technique on the Shade Measurement By an Intraoral Scanner"

Indiana University School of Dentistry

Dr. Mariam Bekkali

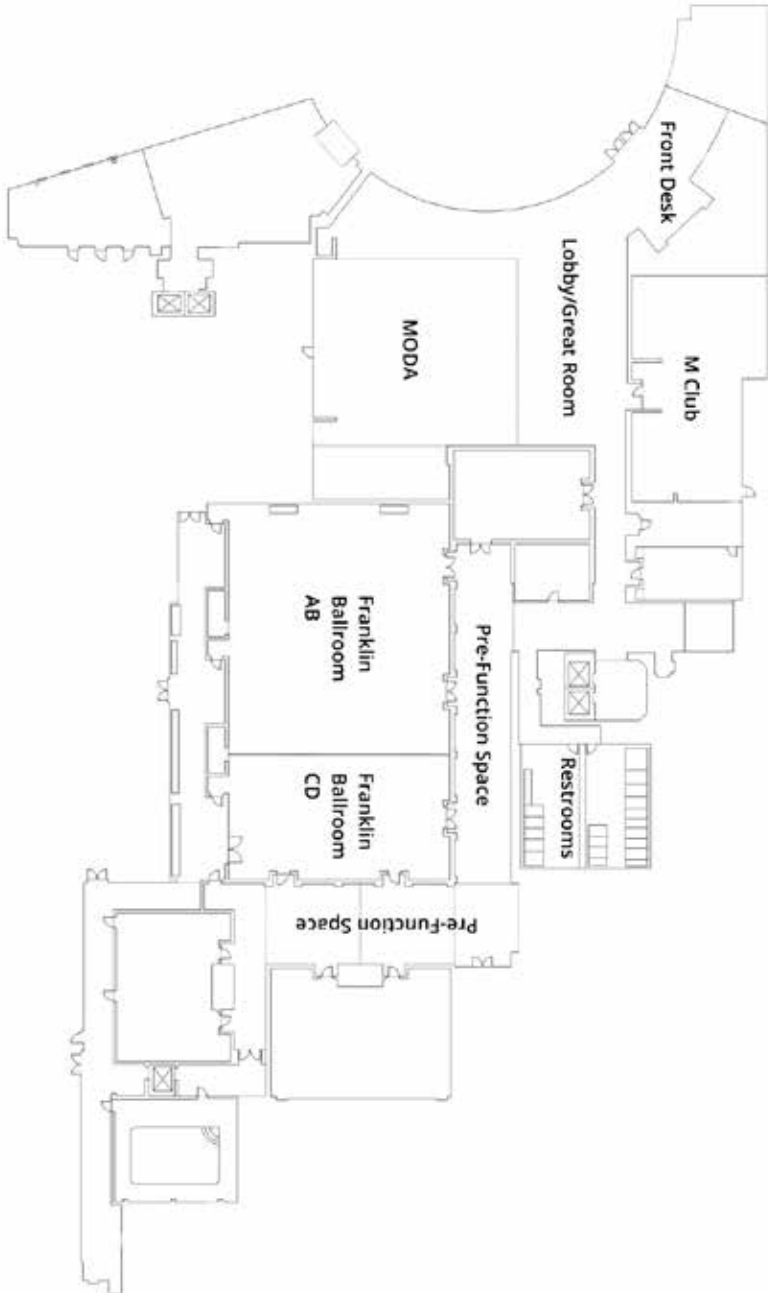
"Sleeveless guided implant placement compared to conventional approaches: An in vitro study at healed sites and fresh extension sockets"

University of Michigan School of Dentistry

Dr. Alfredo Hernandez

"Fracture Resistance of Chair-side CAD/CAM Molar Crowns Fabricated with Different Lithium Disilicate Ceramic Materials"
A.T Still University, Arizona School of Dentistry & Oral Health

Marriott University Area



A Special Thank You

On behalf of the 57th Annual Carl O. Boucher Prosthodontic Conference, we wish to extend a heartfelt “Thank You” to our sponsors. Your support has helped to make this conference a success and learning experience for all who are in attendance. While the demand for clinical excellence and the exchange of scientific evidence and information through conferences such as this continues to be our goal, this cannot be accomplished without the synergistic relationship that must be maintained, and your participation certainly warrants acknowledgment. We look forward to your continued participation at future Boucher Conferences.

Thanks to Our Sponsors



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