

DELAWARE • DISTRICT OF COLUMBIA • MARYLAND • NEW JERSEY • PENNSYLVANIA • PUERTO RICO • VIRGIN ISLANDS

MASO Journal

Spring 2024

Middle Atlantic Society of Orthodontists



Save the Date

2024
GLAO/MASO
Annual Session

Reflect ☀️ *Refresh* ☀️ *Renew*

Frenchman's Reef
St. Thomas USVI

October 17-20, 2024

*Join Us at The Westin Beach Resort and Spa
Perched High Above the Sparkling Caribbean!*



MASO Journal

Middle Atlantic Society of Orthodontists

Spring 2024

FEATURES

- | | |
|--|---|
| 2 President's Message
<i>Dr. Alireza Omid Rajaei</i> | 5 What I'm Watching
<i>Dr. Francis W. Short</i> |
| 2-4 Trustee's Report
<i>Dr. Steven Siegel</i> | 6-7 Dr. Frank W. Krause
Obituary |
| 5 Editorial
<i>Dr. Normand Boucher</i> | |

DEPARTMENTS

- | | |
|--|--------------------------------------|
| 7-10 Recent MASO Research | 20-32 AAO Business |
| 11-13 Meetings | 33-34 MASO Business |
| 14-17 Case Presentation | 35-36 Component News |
| 17-19 Article of Interest | 37-41 Graduate Programs |



WESTIN BEACH RESORT & SPA, FRENCH

The MASO Journal is the official publication of the Middle Atlantic Society of Orthodontists, 400 W. Wilson Bridge Rd, Ste 120, Worthington, OH 43085, phone 1.866.748.MASO(6276), e-mail MASO@AssnOffices.com, and web-site www.MASO.org.

Advertising rates are available by contacting MASO at maso@assnoffices.com. The Middle Atlantic Society of Orthodontists reserves the right to refuse any advertisements for any reason. All ads must comply with the "AAO Advertising Guidelines."

E-mail is preferred for receipt of items submitted for publication in the MASO Journal. Articles and photos may be e-mailed directly to Dr. Normand Boucher at maso@assnoffices.com. If an item must be mailed, send it to Dr. Boucher at 333 W Lancaster Ave., Wayne, PA 19087-3904 or contact him by phone at 610.688.3355.

The Journal is published two times a year, Spring and Autumn. Reports, articles and ads are due June 15 and December 15. The opinions expressed in the Journal are those of the authors and do not necessarily reflect those of the Association, nor does the presence of an advertisement imply endorsement by the Association.

MISSION STATEMENT

The Middle Atlantic Society of Orthodontists, a constituent of the American Association of Orthodontists, shall promote ethical and quality orthodontic care while advocating and providing a voice for our members, components and educational institutions.

EDITORS

Editor: **Dr. Normand Boucher**
Phone: 610.688.3355
Associate Editor: **Dr. Jose Bosio**
Associate Editor: **Dr. Hyeran Helen Jeon**
Associate Editor: **Dr. Craig Williams**
Associate Editor: **Dr. Chenshuang Monica Li**
Associate Editor: **Dr. Alireza Omid Rajaei**

OFFICERS

President: **Dr. Alireza Omid Rajaei**
Phone: 617.599.0599
President-Elect: **Dr. Sana Augustus**
Phone: 301.708.3012
Secretary: **Dr. Paul F. Batastini**
Phone: 856.428.1888
Treasurer: **Dr. Lynette Garcia**
Phone: 787.817.1212
President: **Dr. David Harmon**
Phone: 301.333.3900

DIRECTORS

Dr. Brienne Flagg
Phone: 302.838.1400
Dr. Mark McDonough
Phone: 609.730.1414
Dr. Jose Bosio
Phone: 410.706.7908
Dr. Tejji Thomas
Phone: 215.805.2333

MASO COMMITTEE CHAIRS

Communications/Publications
Dr. Normand Boucher
Education/Research
Dr. Jose Bosio
Government Affairs
Dr. Padma Mukherjee
Member Services
Dr. Courtney Rubin
Nominating
Dr. Madeleine Goodman

COMPONENT PRESIDENTS

Delaware State Society of Orthodontists
Dr. Mark Fiss
District of Columbia Society of Orthodontists
Dr. Jean Edouard Asmar (Interim President)
Maryland State Society of Orthodontists
Dr. Monica Schneider
New Jersey Association of Orthodontists
Dr. Michael Perillo
Pennsylvania Association of Orthodontists
Dr. Jake Orozco
Puerto Rico Society of Orthodontists
Dr. Brunilda M Ortiz

DELEGATES TO AAO

Delegation Chairman
Dr. Richard H. Albright, III

Delegates

Drs. Tarun (Ty) Saini, Richard D. Isaacson, Douglas Harte, Kathy Marshall, Jean McGill

Alternate Delegates

Drs. Alireza Omid Rajaei, Lara Minahan, Sana Augustus, Jake Orozco

AAO TRUSTEE

Dr. Steven Siegel

EXECUTIVE DIRECTOR

Ms. Jane Treiber
maso@assnoffices.com - Phone: 866.748.6276



PRESIDENT'S MESSAGE

Dr. Alireza Omid Rajaei

Dear friends and colleagues,

I want to express my gratitude for being entrusted as the president of the Middle Atlantic Society of Orthodontists (MASO) this year; I am truly honored.

I look forward to another productive year on the MASO board, continuing to learn from my fellow board members and colleagues while serving our members in any way possible. My journey with MASO started seven years ago when **Dr. Jean Asmar** asked me to serve on the MASO board. While I did have some experience with organized dentistry dating back to dental school, I never expected to learn as much as I have about the inner workings of MASO and our parent organization the AAO. What has stood out the most to me is that MASO, as an organization, has always been open to addressing current issues head-on. We have always been at the forefront of identifying and acknowledging changing trends and immediately setting up action committees to deal with such issues. This quality has been and will remain a hallmark of this organization in these fast-moving times.

At MASO, we have two annual events planned in 2024: the Spring CE event, which will be held at The Hotel Dupont, Wilmington, Delaware, on March 8th as well and our main annual event on October 17 to 20 will be a joint event with The Great Lakes Association of Orthodontists (GLAO) at The Westin Beach Resort and Spa at Frenchman's Reef, US Virgin Islands. Our objectives, in general, are to provide our members with current, informative, engaging, and

applicable content to their practices. Content that will touch on current trends and shed light on future ones within our profession. As we have all witnessed over the past few years, technological advancements have significantly impacted our profession. This trend will continue with future advancements presenting more rapidly year over year. While many orthodontic continuing CE opportunities are available annually with some being offered virtually, we hope that the meetings we have planned this year will provide a more engaging and intimate learning experience for our members and their staff.

In addition to other ongoing areas of focus that the MASO board will continue to actively address this year, my intention is to garner more support from our board and members in general for the many residents in the graduate orthodontic programs across our region. While we are truly indebted to our educators for their time and commitment in creating the next generation of orthodontic professionals, I hope to seek the collaboration of our board as well as members in general in facilitating and elevating the orthodontic resident experience from day one until graduation. The future and continued success of our profession is ultimately ours to nurture and safeguard.

Finally, I would like to encourage your involvement in organized dentistry. I trust that you will find it as rewarding and enjoyable as I have and a great platform upon which to build lifelong friendships. Please feel at ease in reaching out to any one of us at MASO as we are always available to guide you along and make the necessary introductions. Wishing you and your loved ones a wonderful year ahead. ■



TRUSTEE'S REPORT

Dr. Steven Siegel

The Nashville-based SmileDirectClub (SDC) declared bankruptcy in September 2023 and then abruptly ceased operations on December 8, 2023, after being unable to find a new capital partner. According to

a frequently asked questions page on SmileDirectClub.com, "aligner treatment is no longer available," and "customer care support is no longer available." The page explains that the company's "Lifetime Smile Guarantee" no longer exists, and those who wish to continue treatment should consult a local dentist.

The American Association of Orthodontists (AAO) has conducted several interviews with members of the press and distributed a press release advising patients stranded by SmileDirectClub to find a licensed orthodontist in

their local area using the [Find An Orthodontist](https://www.aao.org/Find-An-Orthodontist) locator on [AAOinfo.org](https://www.aao.org/AAOinfo.org) and book an appointment.

The American Association of Orthodontists Insurance Company (AAOIC) recommends orthodontists approach these patients as you would a new patient entering your office and follow the procedures as outlined in the AAO's [Clinical Practice Guidelines for Orthodontics and Dentofacial Orthopedics](https://www.aao.org/Clinical-Practice-Guidelines-for-Orthodontics-and-Dentofacial-Orthopedics). Namely:

1. Perform a comprehensive in-person clinical examination, including medical and dental history.
2. Obtain appropriate diagnostic records.
3. Refer to a general dentist, other dental specialists, or other health care professionals when appropriate before beginning treatment.
4. Develop a diagnosis, treatment objectives, and a treatment plan.

CONTINUED ON PAGE 3

5. Maintain a well-documented patient record from beginning to end. Since these patients may have had a bad experience, may resent having to pay additional professional fees, and may be more litigious, ensure everything is documented thoroughly and clearly.

Additionally, AAOIC developed a Supplemental Informed Consent for SmileDirectClub Customers. The form is accessible through the AAO member website's [Legal Forms and Release page](#). It is strongly recommended that it be used in addition to your customary Informed Consent.

Over the past few years, the AAO has lobbied tirelessly at the national and regional levels on consumer safety and protection related to direct-to-consumer orthodontic devices. The AAO supports increased access to dental care, provided it is in the best interest of patients' health and safety and complies with other laws. Teledentistry has been promoted as one way to increase access to care. Remote monitoring of patients and virtual initial consultations have been incorporated into the practice of many orthodontists. The AAO's Legal and Advocacy Department worked with the AAO Board of Trustees to approve the following Teledentistry Parameters. These current parameters are central to what the AAO believes should be considered to protect patients' health and safety as teledentistry laws are being created.

1. In-Person Examination/Evaluation

The AAO believes there are certain diagnoses and evaluations that can only be performed in person or are best performed in person (x-rays, etc.). There are several categories of problems or conditions that many dentists typically look for as part of a physical examination at the outset of traditional in-person treatment. This can include potentially serious conditions, such as oral cancer, periodontal problems, advanced decay, gum disease, etc. With this in mind, and although it might make sense to perform an initial consult via teledentistry, the AAO believes teledentistry TREATMENT should not occur before a physical, in-person examination/evaluation of the patient has occurred by a state-licensed dentist.

2. Initial Consultation

Initial consultations to make a preliminary diagnosis and treatment recommendation may be conducted using teledentistry by a state-licensed dentist. However, creating a final treatment plan and/or initiating dental treatment should only occur after the state-licensed dentist has performed an in-person examination of the patient.

3. Teledentistry during Active Treatment

During active treatment, progress evaluations should be conducted by a state-licensed dentist on a regular basis. To the extent that a patient requests to see in-person the state-

licensed dentist providing teledentistry services for any reason (follow-up care, emergency, etc.), the AAO believes that the dentist should provide the opportunity to see the patient in person, at the location of the original physical in-person consultation.

4. Doctor Information

Regardless of modality, the AAO believes patients should always be aware of their treating dentists' (or potential dentists') information, including where the dentist treating him or her is located or how to reach his or her dentist if needed. Furthermore, the AAO believes teledentistry laws should require those dentists who are performing teledentistry services to disclose (via public website, etc.) their name, license number, telephone number, practice address, and education credentials to patients or the public who may be using or interested in their teledentistry services.

5. Other Laws/Standards

The AAO believes all other laws and standards, including those relating to dentistry and dental supervision, should be followed to the extent they are not directly and expressly addressed by any new teledentistry laws.

6. State Oversight

The AAO believes that states, including state dental boards, should ensure that teledentistry services are provided in compliance with their state business ownership, professional practice laws, and any relevant standards of care. The AAO believes that dental boards should have increased investigative and enforcement authority over non-licensees involved in administering or performing teledentistry services.

If you have any questions about these teledentistry parameters, please call the AAO's General Counsel, Trey Lawrence at 314-292-6525.

CEO LYNNE THOMAS GORDON RETIRES, THE AAO APPOINTS TREY LAWRENCE AS CEO



Lynne Thomas Gordon



Trey Lawrence

After almost six years as the CEO of our association, **Lynne Thomas Gordon** has retired as of the first of the new year. Ms. Gordon is looking forward to her new job, that as grandmother to her first grandchild. Ms. Gordon has been

CONTINUED ON PAGE 4

TRUSTEE'S REPORT

CONTINUED FROM PAGE 3

a transformative figure at the AAO. Under her leadership there has been a reorganization of our departments and the recruitment of expert senior leadership. The AAO not only continued to provide essential and valuable programs and resources to our members during the Covid pandemic but has thrived financially. We will miss Ms. Gordon's warmth and enthusiasm and thank her for her service to our association.

Trey Lawrence was appointed the new Chief Executive Officer of AAO, effective March 1, 2024. This decision came after a nationwide search and a thorough and rigorous selection process.

Mr. Lawrence has been an integral part of the AAO, demonstrating exceptional leadership skills and dedication in his role as Vice President, General Counsel, where he successfully led the association's Advocacy and Legal efforts. His commitment to advancing the goals of the AAO, coupled with his strategic vision, makes him the ideal candidate and clear choice for the position of CEO. Throughout his tenure, Mr. Lawrence has shown unwavering support for our members and their patients, exemplifying the values and mission of the AAO.

NEW TRUSTEE AT-LARGE SELECTED TO THE BOARD OF TRUSTEES



The Board of Trustees has elected **Dr. Kaitrin Kramer** to serve as Trustee At-Large on the BOT for a two-year term. Dr. Kramer received a Ph.D. in oral sciences from The University of Illinois at Chicago and her dental (DDS) degree from the University of Michigan. She then completed the orthodontic residency program at The Ohio State University. Dr. Kramer

received the 2020 AAO Craniofacial Anomalies and Special Care Training Award and returned to the University of Michigan to complete the Craniofacial Orthodontics Fellowship at the UM School of Dentistry. Specializing in craniofacial orthodontics at Nationwide Children's Hospital in Columbus, Ohio, Dr. Kramer is also an adjunct assistant professor at The Ohio State University College of Dentistry's Division of Orthodontics and Division of Pediatric Dentistry. Dr. Kramer is the Great Lakes Association (GLAO) representative to the AAO Council on New and Younger Members. "I look forward to joining the AAO Board in 2024 and to the opportunity to share firsthand all the good the organization does for its members," said Dr. Kramer. "I hope to support and elevate the organization through exciting new initiatives and, most importantly, to do my part to support my profession."

AAO WOMEN'S LEADERSHIP DEVELOPMENT AND TRAINING PROGRAM

The BOT approved funding for the AAO Women's Leadership Development and Training program for Fiscal Year 2024-25.

The first AAO Women's Leadership Challenge occurred in FY 2022-23. The Special Committee on Women Orthodontists developed the Leadership Challenge with a special focus on preparing women to take on key leadership roles. This program was composed of five modules that included webinars by expert speakers and small virtual group sessions to discuss the topics and learn from each other.

The commitment of the AAO is to accelerate the empowerment of women orthodontists through leadership development. The Special Committee on Women Orthodontists will continue to coordinate and improve the program and assist the AAO in developing a similar annual program. I want to thank **Dr. Kathy Marshall**, a past member of SCWO, for her contribution to all the outstanding achievements of SCWO over the past several years. For more information, click [Women's Leadership Challenge | AAO \(aaoinfo.org\)](#)

AAO ANNUAL SESSION 2024

I hope you will join me at the AAO Annual Session, "The World's Greatest Celebration of Orthodontics," which will take place in New Orleans from May 3-6, 2024. The Special Committee on Inclusion and Engagement will host a live webinar from the exhibit hall during the event. Dr. David Harmon has been an instrumental member of SCIE since its inception. Our own Dr. Luis Toro will be sworn in as the new AAO Speaker of the House of Delegates at the House of Delegates meeting during the Annual Session. For more information and to register for the AAO Annual Session, please use the following link: [Home - AAO Annual Session 2024 \(aaoinfo.org\)](#)



AAO Board of Trustees 2023-2024

The purpose of the AAO is to serve you, and you are the AAO! We are strong due to our volunteer leaders. You can get involved in many ways, such as serving on a component, MASO, national council, committee, or task force. Supporting our AAOPAC and AAO Foundation is also an important way to help ensure the future success of our profession. Please get in touch with me if you are looking for a way to become involved in our association. I appreciate the opportunity to serve as your AAO Secretary-Treasurer and MASO Trustee. ■



EDITORIAL

Dr. Normand Boucher

Orthodontic Sustainability Practices

Dr. Madeleine Goodman, the MASO representative on the Council on Orthodontic Practice, is passionate about sustainable issues within orthodontic practices. She understands that as we move from brackets, wires, stone, and plaster to resin models and plastic aligners, the degradation of these materials can result in the proliferation of microplastics. Most of us are familiar with the issue of microplastics causing micropollution by entering natural ecosystems. Microplastics are now recognized as existing in the environment at high levels; particularly in aquatic and marine ecosystems where they cause water pollution. Since plastics degrade slowly, they have the probability of ingestion and accumulation in the bodies and tissues of many biologic organisms and can biomagnify up through the food chain. Although the effects are not as yet understood, it is alarming that bioplastics have been found in human blood. Policies that mandate measures to recapture microplastics at all product lifecycle stages are common sense.

Dr. Goodman spearheaded an initial MASO effort to replace plastic bags with paper bags in orthodontic offices. Nationwide, communities are mandating the elimination of single-use plastic shopping bags. As stewards of our orthodontic environment, we are in a position to reduce plastic waste. For instance, we have

alternatives to single-use plastic saliva ejectors, plastic suction tips, and plastic prophylaxis angles. Eliminating single-use plastic cutlery, plastic cups, and patient bibs is a simple office policy to implement.

On a different front, COC and the AAO can develop strategies to form partnerships with clear aligner companies and producers of resins for printed models to develop recycling programs. Although the financial implications are a barrier for the recycling and repurposing of plastic waste, persistent demand from the orthodontic community and our leverage as consumers will eventually result in a more significant effort on the part of producers.

There is also an obligation on the part of our orthodontic academics to develop the basic science of recycling and repurposing of the materials used in contemporary orthodontic practices. It seems reasonable for the AAOF to support our junior faculty members in this area of research.

Since I am an enduring optimist, I am confident that our volunteer leaders will develop strategies addressing the issue of plastic waste generated by members of the American Association of Plastodontists. ■

Editorials represent the opinions of the author(s) and do not necessarily reflect the views of the Middle Atlantic Society of Orthodontists or the American Association of Orthodontists.

WHAT I'M WATCHING



Dr. Francis W. Short
AKA...Whitefish

If you are a fan of Joel and Ethan Coen's many dark comedies, the FX series "Fargo", named after their 1996 movie, will speak directly to you in a delightfully entertaining and sometimes disturbing way. Feel free to dive directly

into the fifth season, which may be the best yet, as each season is completely independent of the others. Jon Hamm, known for his role in "Mad Men", plays a sheriff in rural North Dakota where he sees his authority as if appointed by God. However, it's Juno Temple from "Ted Lasso" who steals the show as a "tiger" in sheep's clothing.

Noah Hawley has taken and retained the reins as the creator and writer, while the Coen brothers serve as executive producers of this masterpiece. Each season, Hawley pays homage to many of the Coen brothers' films with a tip of the hat here and an Easter egg there. In this season, he also pays homage to Tim Burton in a creepy Halloween scene, combining elements of "A Nightmare Before Christmas" with elements of the original "Fargo" movie. Hawley explores themes of debt, obligation, forgiveness, and women's empowerment. You'll appreciate the deliberate pace, allowing for the processing of each complex scene. Hawley's storytelling abilities are second to none, but it's the quirky characters, wonderfully strange accents, and atypical dialog that I love the most. ■



Dr. Frank W. Krause

June 03, 1933 - January 04, 2024

Dr. Frank Walter Krause, 90, of Cranford, NJ died at home on Thursday, January 4, 2024. He was Cranford's first orthodontist. Throughout his years in practice Dr. Krause's mission has been "to provide the most advanced, ethical, caring orthodontic treatment possible."

He was born in Rahway on June 3, 1933 to Jean Ann Krause and Frank Walter Krause.

He is a Rahway High School graduate of 1951. After college he attended the University of Maryland Dental School, graduating with Omicron Kappa Upsilon Honors. Following that he completed a postdoctoral program and masters from Temple University in 1963.

During college at the University of Virginia, he graduated Cum Laude and Phi Beta Kappa. He joined the R.O.T.C. and spent 2 years as an army officer in Virginia after dental school.

In 1963, Dr. Krause, a native of Rahway, started his practice in a small home-office in Cranford, a town he chose as a family-oriented community. He brought his bride Barbara to Cranford from Pennsylvania where they met while he was at the Temple University graduate orthodontic program. They have remained Cranford residents ever since, raising their four children here. Their youngest son Dr. Kurt Krause now practices general dentistry in Cranford.

As his practice expanded, Dr. Frank Krause built the 118 North Ave. West Professional Building where he continued to work until this past summer. As he was retiring, he expressed the sentiment that "I have the satisfaction of knowing that by the thought and study that went into each of my patient's cases, I have changed so many lives for the better. A lot of people are now living happier, healthier lives with many beautiful smiles."

Throughout his long and distinguished career, he was rewarded for many achievements and his office walls were covered with professional and service recognitions. Perhaps the one he was most proud of was being granted U.S. Patent Office #4,609-350 for his "maxillary mandibular custom lingual retainer" granted in 1986 and awarded 18 patent claims and license. It was designed for the alignment and rotational control of teeth during the retention of difficult and complex orthodontic cases. It set a precedent for treatment retention and is currently provided by four national ortho-labs.

Dr. Krause is a charter member of the College of Diplomates of the American Board of Orthodontics, the highest honor awarded in the field. Only 61% of practicing orthodontists are board

certified. In April the American Association of Orthodontists presented him a 50-year service pin "to honor individuals whose pioneering efforts have been instrumental in the development of orthodontics as a specialty." Early in his career, the ABO selected his "perfect set" of Board admission case reports, judged to be among the ten best in the world, to represent the U.S. for educational display in the "Grand Exhibit" at the International Congress of Orthodontists in London.

The seven-state, 980-member Middle Atlantic Society of Orthodontists recognized his efforts twice. In 2005 he received their highest annual award "in recognition and appreciation of his untiring devotion and meritorious contributions both to MASO and to the dental and orthodontic professions in general." In 2010 the organization named him recipient of their most prestigious "Lifetime Achievement Award." This decision of the MASO Board of Directors recognized Dr. Krause for "significant contributions to his community of patients; serving with distinction as a member of the American Association of Orthodontists at the national level as a delegate from New Jersey to the AAO and ADA; having personally contributed to the betterment of orthodontics; having taught in graduate orthodontic programs; and having conducted orthodontic research, lectures and publication."

Dr. David Soloman, a past president of MASO and past national speaker of the House of Delegates of the AAO recently stated, "Dr. Krause has enjoyed an outstanding career as a dedicated leader in many dental organizations who has unselfishly given so much to our dental profession. The treatment of his patients was unmatched. He is recognized by his peers as being one of the finest orthodontists in the Middle Atlantic Region."

The NJ Association of Orthodontists awarded Dr. Krause the distinctive Devlin Award in 1997 "to recognize his many years of timeless devotion, conscientious and sincere effort to serve and improve the quality of dentistry with his wisdom and abilities." The NJ State General Assembly voted a resolution commending Dr. Krause as president of the NJAO for "significant contributions of leadership including establishing Mentor and Young Orthodontist Committees for foster professional growth and education."

In teaching, Dr. Krause received Dean's appointments as guest lecturer in the graduate Orthodontic Departments at Temple University School of Dentistry; University of Maryland Dental School; and Departmental invitations at University of Medicine & Dentistry of NJ. Throughout his career he provided leadership to the profession with numerous presentations and clinics at national, regional and state dental conferences. He had multiple research articles and clinical papers published in national and regional professional journals.

Dr. Krause was named a "Best of 2012" and "Best of 2013" Orthodontist by Orthodontic Products Magazine. Nominees "were judged with input from hundreds of members of the nationwide orthodontic community on how each nominee is

CONTINUED ON PAGE 7

committed to excellence and is an exceptional practitioner of the orthodontic specialty.” He was elected a Fellow of both the American and International College of Dentists “in recognition of conspicuous services rendered in the Art and Science of Dentistry.” He has been included in Biltmore “Who’s Who for Leadership and Achievement in the Profession”; was selected a 2011 “Man of the Year in Medicine and Healthcare” for outstanding pursuits in his field by the American Biographical Institute.

He was twice named a “Top Orthodontist” by NJ Monthly magazine’s “Top Dentists” issue and also “NJ Favorite Kids’ Docs” 2012 by NJ Family magazine as an “exceptional pediatric healthcare professional.” Consumer’s Research Council of America included Dr. Krause in the “Guide to America’s Top Dentists” for Orthodontics 2007, 2010, 2011, 2012, 2013. Selection is based on an independent point value system including board certification and education.

An active member of many professional dental organizations, he has served as officer and president of both the Union County Dental Association and New Jersey Association of Orthodontists; and as officer and delegate from NJ to both the Middle Atlantic Association and the American Association of Orthodontists. In 2002 and 2008 the Union County Dental Society honored him for “outstanding service, exemplary dedication and commitment to better serve the public.” The NJDA presented him a commendation “for tenure as a state trustee representing Union County for eight years with distinguished dedication and service.”

After graduating cum Laude and Phi Beta Kappa from the University of Virginia, Dr. Krause received his D.D.S. from the University of Maryland Dental School where he earned Gorgas Odontological Society Scholastic honors. Thereafter he served two years as captain in the U.S. Army Dental Corps prior to completing his Master of Science Degree in Orthodontics at Temple University Graduate Dental School. He was licensed by the State Boards of Dentistry in five states before settling in Cranford.

Locally Dr. Krause was a board director and president of the Cranford Jaycees whom he has consistently supported for 25 years as a sponsor of their annual July 4 Firecracker Runs. For more than 20 years he was a sponsor of the Cranford Baseball and Softball League. He also serves the Westfield Area YMCA for 31 consecutive years as a director actively involved in Adult Services and is current chair of the Y’s Medical Advisory Committee on Health and Wellness. He is the 2013 recipient of the Y’s “Character Development Award.”

Professionally, he has transitioned his orthodontic practice to Dr. Scott Gersch.

After he retired in 2013, he found great joy in bumping into thousands of patients around town and going to the local movies.

He is survived by his loving wife, Barbara, whom he met in Philadelphia and married in 1964. He is survived by his children Frank, Lauren, Carey and Kurt. ■

RECENT MASO RESEARCH

MASO Research in 2023

The following list of publications reflects the robust and diverse areas of clinical and basic science research within MASO residency programs.

University of Maryland School of Dentistry

Application of Inositol Hexaphosphate and Inositol in Dental Medicine: An Overview

Ana Druzijanic, Mare Kovic, Marija Roguljic, Livia Cigic, Martina Majstorovic, Ivana Vucenik

Biomolecules

<https://pubmed.ncbi.nlm.nih.gov/37371493/>

Author’s Response

Vineet K Dhar, Ruth D Lipman

J Am Dent Assoc

<https://pubmed.ncbi.nlm.nih.gov/37642610/>

Nonpharmacological Behavior Guidance for the Pediatric Dental Patient

Vineet Dhar, Elizabeth Gosnell, Jayakumar Jayaraman, Clarice Law, Martina Majstorović, Abdullah A Marghalani, Cameron L Randall, Janice Townsend, Martha Wells, Chia-Yu Chen, Rachel Wedeward

Pediatr Dent

<https://pubmed.ncbi.nlm.nih.gov/37904260/>

Intermittent hypoxia in neonatal rodents affects facial bone growth
Eung-Kwon Pae, Ronald M Harper

PLoS One

<https://pubmed.ncbi.nlm.nih.gov/37819881/>

Three-dimensional Evaluation of the Carriere Motion 3D Appliance in the treatment of Class II malocclusion

Elizabeth V Biggs, Erika Benavides, James A McNamara Jr, Lucia H S Cevdanes, Flavio Copello, Ronald R Lints, Joel P Lints, Antonio C O Ruellas

Am J Orthod Dentofacial Orthop

<https://pubmed.ncbi.nlm.nih.gov/37598337/>

A comparison of CAD/CAM-based fixed retainers versus conventional fixed retainers in orthodontic patients: a systematic review and network meta-analysis

Erfan Bardideh, Mahsa Ghorbani, Hooman Shafaei, Pooya Saeedi, Farnaz Younessian

Eur J Orthod

<https://pubmed.ncbi.nlm.nih.gov/37471113/>

International investigation on temporary anchorage device use: A survey of orthodontists

Kelsea Y Ashton, Shuying S Jiang, Mary Anne Melo, Jose A Bosio

J World Fed Orthod

<https://pubmed.ncbi.nlm.nih.gov/37198009/>

CONTINUED ON PAGE 8

Analysis of Tongue Muscle Strain During Speech From Multimodal Magnetic Resonance Imaging
 Muhan Shao, Fangxu Xing, Aaron Carass, Xiao Liang, Jiachen Zhuo, Maureen Stone, Jonghye Woo, Jerry L Prince
J Speech Lang Hear Res
<https://pubmed.ncbi.nlm.nih.gov/36716389/>

Periodontal Disease Associated With Interstitial Myocardial Fibrosis: The Multiethnic Study of Atherosclerosis
 Maria Doughan, Omar Chehab, Henrique Doria de Vasconcellos, Ralph Zeitoun, Vinithra Varadarajan, Bassel Doughan, Colin O Wu, Michael J Blaha, David A Bluemke, Joao A C Lima
J Am Heart Assoc
<https://pubmed.ncbi.nlm.nih.gov/36718872/>

Primary Tooth Vital Pulp Treatment Interventions: Systematic Review and Meta-Analyses
 James A Coll, Vineet Dhar, Chia-Yu Chen, Yasmi O Crystal, Marcio Guelmann, Abdullah A Marghalani, Shahad AlShamali, Zheng Xu, Gerald Glickman, Rachel Wedeward
Pediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/38129755/>

Influence of the maxillary dimensions and anterior teeth anatomy on the buccal impaction of upper permanent canines: A three-dimensional case-control study
 Teresa Cristina Pereira de Oliveira, Flávio Mendonça Copello, Amanda Cunha Regal de Castro, Lincoln Issamu Nojima, Matilde da Cunha Gonçalves Nojima
Int Orthod
<https://pubmed.ncbi.nlm.nih.gov/37659281/>

Nonpharmacological Behavior Guidance for Children During Preventive Dental Visits: A Systematic Review-Part 1
 Vineet Dhar, Cameron L Randall, Abdullah A Marghalani, Jayakumar Jayaraman, Chia-Yu Chen, Martha Wells, Clarice Law, Elizabeth Gosnell, Martina Majstorović, Janice Townsend, Rachel Wedeward
Pediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/37381126/>

Pediatric Dentists' Use of Nonpharmacological Behavior Guidance Techniques and Experiences with Parent / Caregiver Acceptance: A National Survey
 Cameron L Randall, Vineet Dhar
Pediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/37904263/>

Nonpharmacological Behavior Guidance For Children During Dental Treatment Visits: A Systematic Review and Meta-Analysis-Part 2
 Vineet Dhar, Jayakumar Jayaraman, Abdullah A Marghalani, Martha Wells, Cameron L Randall, Clarice Law, Martina Majstorović, Elizabeth Gosnell, Janice Townsend, Chia-Yu Chen, Rachel Wedeward
Pediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/37381122/>

Caries management pathways for children: IAPD Global Policy Statement
 Norman Tinanoff
Int J Paediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/37655694/>

Influence of the maxillary dimensions and lateral incisor anatomy on the palatal impaction of maxillary permanent canines: A three-dimensional case-control study
 Teresa Cristina Pereira de Oliveira, Flávio Mendonça Copello, Sylvia de Araújo Paes-Souza, Amanda Cunha Regal de Castro, Lincoln Issamu Nojima, Matilde da Cunha Gonçalves Nojima
Int Orthod
<https://pubmed.ncbi.nlm.nih.gov/37659282/>

Nonpharmacological Behavior Guidance for Children with Special Health Care Needs During Preventive and Treatment Dental Visits: A Systematic Review-Part 3
 Vineet Dhar, Abdullah A Marghalani, Jayakumar Jayaraman, Martha Wells, Clarice Law, Cameron L Randall, Janice Townsend, Martina Majstorović, Elizabeth Gosnell, Chia-Yu Chen, Rachel Wedeward
Pediatr Dent
<https://pubmed.ncbi.nlm.nih.gov/37381125/>

Rutgers School of Dental Medicine

3D-Bioprinted GelMA Scaffold with ASCs and HUVECs for Engineering Vascularized Adipose Tissue
 Ming-Huei Cheng, Chien-Wen Chang, Jerry Wang, Sasinan Bupphathong, Wei Huang, Chih-Hsin Lin
ACS Appl Bio Mater
<https://pubmed.ncbi.nlm.nih.gov/38148527/>

Evaluating SWAG and Its Validity When Compared to 3D Imagery of Secondly Grafted Cleft Sites
 David S Briss, Ross E Long Jr, John B Peterman III, Jean Charles Doucet, John Daskalogiannakis, Ron R Hathaway, Ana M Mercado, Kathy Russell, Lexi Stauffer
Cleft Palate Craniofac J
<https://pubmed.ncbi.nlm.nih.gov/37844606/>

Orthodontic tooth extrusion to regenerate missing papilla adjacent to maxillary anterior single implants: A 2- to 7-year retrospective study
 Joseph Y K Kan, Kitichai Rungcharassaeng, Shi Yin, Philip Kang, Frank Celenza, Frank Spear, Ji Yeon Chung, Jaime L Lozada
J Esthet Restor Dent
<https://pubmed.ncbi.nlm.nih.gov/37830507/>

Synthesis of Silanized Bioactive Glass/Gelatin Methacrylate (GelMA/Si-BG) composite hydrogel for Bone Tissue Engineering Application
 Hsuan Chen, Yuan-Min Lin, Sasinan Bupphathong, Joshua Lim, Jing-En Huang, Wei Huang, Tiffany Angela S Hsieh, Chih-Hsin Lin
J Mech Behav Biomed Mater
<https://pubmed.ncbi.nlm.nih.gov/37797555/>

Three-Dimensional Bioprinting of Biocompatible Photosensitive Polymers for Tissue Engineering Application
 Joshua Lim, Sasinan Bupphathong, Wei Huang, Chih-Hsin Lin
Tissue Eng Part B Rev
<https://pubmed.ncbi.nlm.nih.gov/37335218/>

Temporomandibular Disorders: Implications in Restorative Dentistry and Orthodontics
 Davis C Thomas, David Briss, Paul Emile Rossouw, Shankar Iyer
Dent Clin North Am
<https://pubmed.ncbi.nlm.nih.gov/36965933/>

University of Pennsylvania School of Dental Medicine

Correlation between TMJ Space Alteration and Disc Displacement: A Retrospective CBCT and MRI Study
 Wenjing Yu, Hyeran Helen Jeon, Soriul Kim, Adeyinka Dayo, Muralidhar Mupparapu, Normand S Boucher
Diagnostics (Basel)
<https://pubmed.ncbi.nlm.nih.gov/38201353/>

CONTINUED ON PAGE 9

Neural EGFL-like 1, a craniosynostosis-related osteochondrogenic molecule, strikingly associates with neurodevelopmental pathologies
Chenshuang Li, Zhong Zheng, Pin Ha, Wenlu Jiang, Chia Soo, Kang Ting
Cell Biosci
<https://pubmed.ncbi.nlm.nih.gov/38102659/>

Effects of Plasma Treatment on the Strength of Bonding to Ceramic Surfaces in Orthodontics-A Comprehensive Review
Elizabeth Gershater, Olivia Griswold, Brooke E Talsania, Yu Zhang, Chun-Hsi Chung, Zhong Zheng, Chenshuang Li
Bioengineering (Basel)
<https://pubmed.ncbi.nlm.nih.gov/38002447/>

Increased Purinergic Signaling in Human Dental Pulps With Inflammatory Pain is Sex-Dependent
Lily P See, Puttipong Sripinun, Wennan Lu, Jiaqi Li, Naela Alboloushi, Elena Alvarez-Periel, Su-Min Lee, Bekir Karabucak, Steven Wang, Kelly L Jordan-Sciutto, Katherine N Theken, Claire H Mitchell
J Pain
<https://pubmed.ncbi.nlm.nih.gov/37956743/>

Finite Element Analysis Model for Assessing Expansion Patterns from Surgically Assisted Rapid Palatal Expansion
Jia-Hong Lin, Guan-Lin Wu, Chun-Kai Chiu, Steven Wang, Chun-Hsi Chung, Chenshuang Li
J Vis Exp
<https://pubmed.ncbi.nlm.nih.gov/37930011/>

Oral healthcare providers play a vital role in vaccination efforts: Patient perspectives
Sara Steinbaum, Julia Jagannath, Lake Seymour, Patricia Corby, Roopali Kulkarni, Katherine France
Clin Exp Dent Res
<https://pubmed.ncbi.nlm.nih.gov/37803883/>

Iron oxide nanozymes stabilize stannous fluoride for targeted biofilm killing and synergistic oral disease prevention
Yue Huang, Yuan Liu, Nil Kanatha Pandey, Shrey Shah, Aurea Simon-Soro, Jessica C Hsu, Zhi Ren, Zhenting Xiang, Dongyeop Kim, Tatsuro Ito, Min Jun Oh, Christine Buckley, Faizan Alawi, Yong Li, Paul J M Smeets, Sarah Boyer, Xingchen Zhao, Derk Joester, Domenick T Zero, David P Cormode, Hyun Koo
Nat Commun
<https://pubmed.ncbi.nlm.nih.gov/37773239/>

Posterior Palatal Expansion via Subnasal Endoscopy (2PENN) for Maxillary Deficiency: A Pilot Study
Sebastian M Jara, Eric R Thuler, Michael J Hutz, Jason L Yu, Crystal S Cheong, Normand Boucher, Marianna Evans, Raj C Dedhia
Laryngoscope
<https://pubmed.ncbi.nlm.nih.gov/37772955/>

A Modern Approach to Treat Molar/Incisor Pattern Periodontitis-Review
Taewan J Kim, Caroline G Littlejohn, Kristen H Richey, Neda Falsafi, Chenshuang Li, Tun-Jan Wang, Bradley Lander, Yu-Cheng Chang
J Clin Med
<https://pubmed.ncbi.nlm.nih.gov/37763046/>

Theranostic gold-in-gold cage nanoparticles enable photothermal ablation and photoacoustic imaging in biofilm-associated infection models
Maryam Hajfathalian, Christiaan R de Vries, Jessica C Hsu, Ahmad Amirshaghghi, Yuxi C Dong, Zhi Ren, Yuan Liu, Yue Huang, Yong Li, Simon Ab Knight, Pallavi Jonnalagadda, Aimen Zlitni, Elizabeth A Grice, Paul L Bollyky, Hyun Koo, David P Cormode
J Clin Invest
<https://pubmed.ncbi.nlm.nih.gov/37651187/>

Social networking at the microbiome-host interface
Richard J Lamont, George Hajishengallis, Hyun Koo
Infect Immun
<https://pubmed.ncbi.nlm.nih.gov/37594277/>

The skeletal and dental age advancements of children and adolescents with overweight and obesity: A systematic review and meta-analysis
Tiffany H Park, Jia-Hong Lin, Chun-Hsi Chung, Zhong Zheng, Chenshuang Li
Am J Orthod Dentofacial Orthop
<https://pubmed.ncbi.nlm.nih.gov/37367707/>

Comparison of the skeletodental effects of miniscrew-anchored and tooth-anchored facemask treatment in growing patients with skeletal class III malocclusions
Youn-Kyung Choi, Jung Joo Park, Hyeran Helen Jeon, Yong-Il Kim
Orthod Craniofac Res
<https://pubmed.ncbi.nlm.nih.gov/37272219/>

Addition of cariogenic pathogens to complex oral microflora drives significant changes in biofilm compositions and functionalities
Yuan Liu, Scott G Daniel, Hye-Eun Kim, Hyun Koo, Jonathan Korostoff, Flavia Teles, Kyle Bittinger, Geelsu Hwang
Microbiome
<https://pubmed.ncbi.nlm.nih.gov/37264481/>

HOCl Rapidly Kills Corona, Flu, and Herpes to Prevent Aerosol Spread
H Guan, M Nuth, S R Weiss, A Fausto, Y Liu, H Koo, M S Wolff, R P Ricciardi
J Dent Res
<https://pubmed.ncbi.nlm.nih.gov/37246843/>

Sagittal and Vertical Changes of the Maxilla after Surgically Assisted Rapid Palatal Expansion: A Systematic Review and Meta-Analysis
Jia-Hong Lin, Steven Wang, Usama Al Abdullah, Anh D Le, Chun-Hsi Chung, Chenshuang Li
J Clin Med
<https://pubmed.ncbi.nlm.nih.gov/37240593/>

Selenomonas sputigena acts as a pathobiont mediating spatial structure and biofilm virulence in early childhood caries
Hunyoung Cho, Zhi Ren, Kimon Divaris, Jeffrey Roach, Bridget M Lin, Chuwen Liu, M Andrea Azcarate-Peril, Miguel A Simancas-Pallares, Poojan Shrestha, Alena Orlenko, Jeannie Ginnis, Kari E North, Andrea G Ferreira Zandona, Apoena Aguiar Ribeiro, Di Wu, Hyun Koo
Nat Commun
<https://pubmed.ncbi.nlm.nih.gov/37217495/>

Characterizing the microbiota of cleft lip and palate patients: a comprehensive review
Elizabeth Gershater, Yuan Liu, Binglan Xue, Min Kyung Shin, Hyun Koo, Zhong Zheng, Chenshuang Li
Front Cell Infect Microbiol
<https://pubmed.ncbi.nlm.nih.gov/37143743/>

Nanozyme-Based Robotics Approach for Targeting Fungal Infection
Min Jun Oh, Seokyoung Yoon, Alaa Babeer, Yuan Liu, Zhi Ren, Zhenting Xiang, Yilan Miao, David P Cormode, Chider Chen, Edward Steager, Hyun Koo
Adv Mater
<https://pubmed.ncbi.nlm.nih.gov/37141008/>

Accurate gingival segmentation from 3D images with artificial intelligence: an animal pilot study
Min Yang, Chenshuang Li, Wen Yang, Chider Chen, Chun-Hsi Chung, Nipul Tanna, Zhong Zheng
Prog Orthod
<https://pubmed.ncbi.nlm.nih.gov/37121951/>

CONTINUED ON PAGE 10

Transverse growth of the mandibular body in untreated children: a longitudinal CBCT study

Leanne Lin, Chenshuang Li, Stephanie H Chen, Normand S Boucher, Chun-Hsi Chung

Clin Oral Investig

<https://pubmed.ncbi.nlm.nih.gov/37022530/>

Oral polymicrobial communities: Assembly, function, and impact on diseases

George Hajishengallis, Richard J Lamont, Hyun Koo

Cell Host Microbe

<https://pubmed.ncbi.nlm.nih.gov/36933557/>

Secreted phosphoprotein 24 kD (Spp24) inhibits the growth of human osteosarcoma through the BMP-2/Smad signaling pathway

Hongfang Chen, Chenshuang Li, Tangjun Zhou, Xunlin Li, Maria Eugenia L Duarte, Michael D Daubs, Zorica Buser, Elsa J Brochmann, Jeffrey C Wang, Samuel S Murray, Li Jiao, Haijun Tian

J Orthop Res

<https://pubmed.ncbi.nlm.nih.gov/36883270/>

Osteoimmunology in Periodontitis and Orthodontic Tooth Movement

Bushra Alghamdi, Hyeran Helen Jeon, Jia Ni, Dongxu Qiu, Alyssia Liu, Julie J Hong, Mamoon Ali, Albert Wang, Michael Troka, Dana T Graves

Curr Osteoporos Rep

<https://pubmed.ncbi.nlm.nih.gov/36862360/>

Improving Titanium Implant Stability with Photobiomodulation: A Review and Meta-Analysis of Irradiation Parameters

Dennis Sourvanos, Jason Poon, Bradley Lander, Hector Sarmiento, James Carroll, Timothy C Zhu, Joseph P Fiorellini

Photobiomodul Photomed Laser Surg

<https://pubmed.ncbi.nlm.nih.gov/36856530/>

Cone-beam computed tomography use in postgraduate orthodontic programs in North America and Europe

Jaime A Guberman, Chun-Hsi Chung, Chenshuang Li

J Dent Educ

<https://pubmed.ncbi.nlm.nih.gov/36814145/>

A novel injectable fibromodulin-releasing granular hydrogel for tendon healing and functional recovery

Xue Xu, Yulong Zhang, Pin Ha, Yao Chen, Chenshuang Li, Emily Yen, Yuxing Bai, Renji Chen, Benjamin M Wu, Andrew Da Lio, Kang Ting, Chia Soo, Zhong Zheng

Bioeng Transl Med

<https://pubmed.ncbi.nlm.nih.gov/36684085/>

Predictability of the deep overbite correction using clear aligners

Nishat Shahabuddin, Jessica Kang, Hyeran Helen Jeon

Am J Orthod Dentofacial Orthop

<https://pubmed.ncbi.nlm.nih.gov/36681525/>

Human Tooth as a Fungal Niche: Candida albicans Traits in Dental Plaque Isolates

Zhenting Xiang, Rohan S Wakade, Apoena Aguiar Ribeiro, Weiming Hu, Kyle Bittinger, Aurea Simon-Soro, Dongyeop Kim, Jiyao Li, Damian J Krysan, Yuan Liu, Hyun Koo

mBio

<https://pubmed.ncbi.nlm.nih.gov/36602308/>

Novel genes linked to Class II Division 1 malocclusion with mandibular micrognathism

Michelle R El Chekie, Georges Nemer, Athar Khalil, Anthony T Macari, Joseph G Ghafari

Am J Orthod Dentofacial Orthop

<https://pubmed.ncbi.nlm.nih.gov/36581475/>

Mandibular transverse dentoalveolar and skeletal changes associated with lip bumper and rapid maxillary expander: A cone-beam computed tomography study

Justin C Orr, Chenshuang Li, Shalin Shah, Michael Randolph Backstrand, Chun-Hsi Chung, Normand S Boucher

Am J Orthod Dentofacial Orthop

<https://pubmed.ncbi.nlm.nih.gov/36517377/>

Fibromodulin, a Multifunctional Matricellular Modulator

Z Zheng, H S Granado, C Li

J Dent Res

<https://pubmed.ncbi.nlm.nih.gov/36515321/>

Novel Strategies for Orofacial Soft Tissue Regeneration

Pin Ha, Timothy P Liu, Chenshuang Li, Zhong Zheng

Adv Wound Care (New Rochelle)

<https://pubmed.ncbi.nlm.nih.gov/35651274/>

Uniformity of palatal volume and surface area in various malocclusions

Maria E Saadeh, Joseph G Ghafari

Orthod Craniofac Res

<https://pubmed.ncbi.nlm.nih.gov/35470544/>

Howard University, College of Dentistry

Assessing burnout among early career faculty in US dental schools

Aisha D Henry, Reginald O Salter, Daniel L Young, Jacinta Leavell

J Dent Educ

<https://pubmed.ncbi.nlm.nih.gov/38124286/>

Assessment of artificial intelligence-based remote monitoring of clear aligner therapy: A prospective study

Thomas Ferlito, Desiree Hsiou, Kadriye Hargett, Camille Herzog, Petra Bachour, Negin Katebi, Oluwabunmi Tokede, Brent Larson, Mohamed I Masoud

Am J Orthod Dentofacial Orthop

<https://pubmed.ncbi.nlm.nih.gov/36997411/>

Kornberg School of Dentistry, Temple University

Response to “sleep bruxism, wake bruxism, or both? The importance of their full reporting and diagnosis”

Romain Nicot, Gwénaél Raoul, James J Sciote

Oral Dis

<https://pubmed.ncbi.nlm.nih.gov/35924999/>

ACTN3 genotype influences masseter muscle characteristics and self-reported bruxism

Romain Nicot, Gwénaél Raoul, Alexandre R Vieira, Joël Ferri, James J Sciote

Oral Dis

<https://pubmed.ncbi.nlm.nih.gov/34773324/>

Impact of malocclusions on oral health-related quality of life among adolescents

Rahma ElNaghy, Majd Hasanin

Evid Based Dent

<https://pubmed.ncbi.nlm.nih.gov/37658238/> ■

GLAO-MASO Joint Annual Session Recap

“Capitalizing on Emerging Technologies”

September 21 – 23, 2023

Gaylord National Resort & Convention Center, National Harbor, Maryland

The **2023 MASO-GLAO Annual Session** at the Gaylord National Harbor was unlike any other meeting in or close to the Nation’s Capital with its fantastic setting. The waterfront resort property, just across the Potomac from downtown Washington DC, with its 19-story glass atrium and rooftop lounge, and surrounding restaurants and retail facilities, offered plenty of downtime activities for attendees when they weren’t attending seminars, Resident sessions, Educator Meetings, or AAO information sessions.

The 500 attendees included over 250 MASO doctors, residents, and staff members. There were guest doctors in attendance from neighboring constituent organizations and 80 exhibitor personnel for the 40 exhibitor tables.

AAO guests included Dr. Myron Guyman, President; Ms. Lynne Thomas Gordon, CEO; Mr. Trey Lawrence, VP, General Counsel; Ms. Kim VanVeen, Grassroots & Digital Advocacy; and Ms. Jackie Bode, AAO Foundation.

The speaker lineup was outstanding, featuring Drs. Bryan Lockhart, Neal Kravitz, Maz Moshiri, Anil Ardeshta, Hera Kim-Berman, Tarek ElShebiny, Carlos Smith, Heather Hopkins, and Mr. Ryan Moynihan. The industry presentations by Dr. Lisa Davison and Mr. Harrison Bagdan were informative and well-received.

The Golf Outing/Boucher Cup tradition continued with the winning team leader Dr. Jean McGill, and the Fun Run

along the harbor provided a beautiful backdrop for the dedicated runners.

Social events were plentiful, with an AAO reception for MASO and GLAO residents where House Representative Rodney Davis, IL, was a guest speaker, followed by Friday evening’s Taste of DC and Maryland Reception in the Gaylord’s atrium, attended by none other than George and Martha Washington.

The Annual Business meeting was held Friday, and new officers and directors were elected. Congratulations to **Dr. Dave Harmon** for a fantastic annual session and a productive year of presidency, and welcome **Dr. Alireza Omid Rajaei** as the new president for 2024. The Lifetime Achievement Award was presented to **Dr. Richard Albright Jr.** for significant contributions to his patients, the AAO and MASO, and the betterment of the specialty of orthodontics. **Dr. Douglas Harte** was awarded the Gerard A. Devlin Award for his significant service to MASO and his contribution to the orthodontic health of children and adults. And the William S. Kress Award for Resident Excellence went to **Dr. Jeremy Dock**, a former University of Maryland resident, now practicing in Cincinnati, Ohio.

The Meeting would not have been possible without the generous support of our industry sponsors and exhibitors. Thank you to all who participated!

CONTINUED ON PAGE 12



SPONSORS

ELITE PARTNER

TP Orthodontics
AAO

PREMIER PARTNER

3M Oral Care – Industry Speaker
HIP Creative – Industry Speaker

EXECUTIVE PARTNER

LightForce Orthodontics
Reliance Orthodontics
uLab Systems

PARTNER

DentalMonitoring
GC Orthodontics

OTHER

Dolphin® Imaging & Management
Solutions –
Mari's List
Ortho2
Neon Canvas
American Orthodontists
Angel Aligners

EXHIBITORS

3M Oral Care
AAOPAC/Advocacy
AAOF
AAOIC
ABO
Allure Ortho
American Orthodontics
Angel Aligner
ClearCorrect
Cloud 9
DentalMonitoring
Dolphin Imaging & Management
Solutions
Dynaflex
EPAX Dental
Evolution by New Horizons Software
Forestadent
Four Quadrants Advisory
Gaidge
GC Orthodontics America Inc.
Great Lakes Dental Technologies
Henry Schein Orthodontics

HIP Creative
Illusion Aligners
KLOwen Ortho
Large Practice Sales (LPS)
LightForce Orthodontics
NEOLab
Neon Canvas
Ormco Corporation
Ortho2
OrthoFi / OrthoBanc
OrthoFX
Orthopli Corporation
OrthoSelect, LLC
Reliance Orthodontic Products, Inc.
Sesame Communications
Smile for a Lifetime
Strategic Tax Planning
SureSmile
TP Orthodontics, Inc.
Trapezio
uLab Systems
Weave



MASO Spring CE

Friday, March 8, 2024

The Hotel DuPont

42 W. 11th Street • Wilmington, DE

Topic: “From Brackets to Complementary Intelligence: The Contemporary Pathway for Orthodontists”

Artificial intelligence (AI), also referred to as complementary or augmented intelligence has infiltrated various aspects of orthodontic diagnosis and treatment. Where do evidence and practice intersect with AI in diagnostics and treatment? Advances range from designing and placing the individual bracket to moving teeth with preplanned appliances, visible and “invisible” (lingual appliances and clear aligners), but could we predict outliers to central tendencies established through repeated research?

Speaker

Joseph G. Ghafari, DMD

Professor and Founding Chairperson, Department of Dentofacial Medicine, American University of Beirut



MASO representatives and residents at the AAO Leadership Development Conference on January 26 in San Antonio, TX.

CASE PRESENTATION

THE ART OF SAVING TEETH

by Dr. Craig Williams

The medical and dental fields are invested in evidence-based teaching and practice. Through controlled studies, many procedures, theories, and materials are evaluated for their predictability and efficacy. The outcomes of these studies provide a basis for what does or does not apply or work, at least amongst the cohort of subjects within the studies. The information this research provides must guide practitioners, but they must maintain sight that the patient in front of them is a case study of one. Often, a clinician must rely on clinical experience to determine how best to apply or not apply specific procedures and materials to care for their patient correctly. This is an important component of evidence-based practice, where the art of the medical and dental professions enters.

With this in mind, I would like to present the following patient. The patient presented to me seeking a second opinion. Her previous dentist had told her that she required extraction of the molars in her Maxillary left quadrant with replacement by implants. During my initial visual examination of her dentition, I began to question this recommendation.

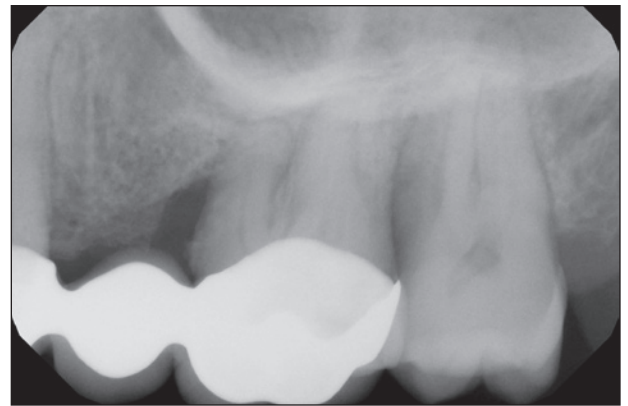


Michelle presented as seen above. She had a history of Orthodontic care as a young adult with prosthetic replacement of her congenitally missing lateral incisors with resin-bonded bridges. She had been maintaining routine dental care since that time. Her periodontal charting at the time of her presentation is shown below. While most of her dentition appears to be quite healthy, there are several areas of concern. The pocket depth noted on the lingual surface of her Maxillary anterior teeth is partly the result of orthodontic flaring of these teeth to create space to replace her congenitally missing lateral incisors. Most areas demonstrating bleeding upon probing involve teeth with the fixed restorative dentistry in her mouth. One has to ask *WHY?*



Some dentists might suggest it is due to site specificity; periodontal disease may affect multi-rooted teeth more than anterior teeth. The anatomy of these teeth is more tortuous and, therefore, lends itself more readily to the accumulation of plaque and the development of an inflammatory process. Others suggest that it is due to difficulties with home care because of the posterior location and a splinted restoration. However, the anatomy of the teeth involved and the potential influence of furcations are only significant once there has already been sufficient attachment loss to expose these areas to the oral environment. How did the breakdown start?

The establishment of a proper diagnosis is paramount to the proper care of any patient. A well-known clinician once said, "There can be many treatment options, but there can be only ONE correct diagnosis." If we cannot correctly determine the cause of a patient's problem, we will never be able to completely and properly manage their disease.



Initial Radiographic Appearance of the Maxillary Left First and Second Molars

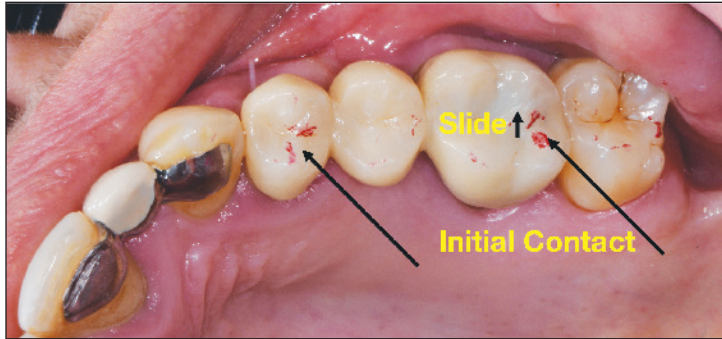
Evaluation of the patient's occlusion revealed the presence of premature contact upon full closure of the mandible. Not only was there a prematurity, but the interference produced a slide into the patient's full maximum intercuspation once

CONTINUED ON PAGE 15

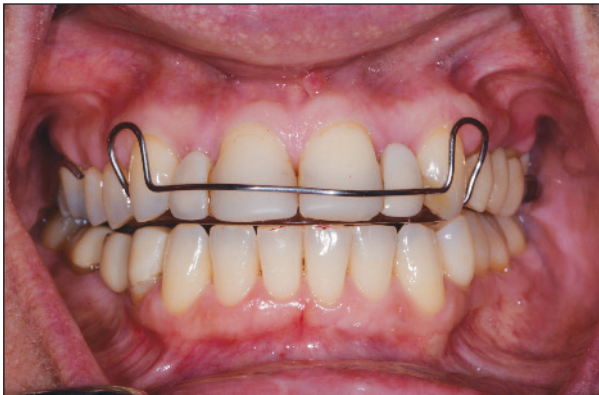
CASE PRESENTATION

CASE PRESENTATION-THE ART OF SAVING TEETH

CONTINUED FROM PAGE 14



contacted. This interference was produced by the three-unit restoration fabricated to replace the missing premolar in the upper left quadrant. Unfortunately, the issue did not stop there. The slide created by the interference on tooth #14, the Maxillary Left First Molar, also produced an interference on the contralateral side, specifically on tooth #30. Examination of the periodontal status of this tooth demonstrates an early breakdown in the furcation and bleeding upon probing. Coincidence? Again, I should credit one of my teachers who said, “fabrication of a three-unit bridge affects half of a patient’s occlusion directly and the other half indirectly.” This is precisely what we are seeing with this patient’s disease process. Not only is there a periodontal problem present, but there is also an exacerbating occlusal problem. Both issues must be addressed if the patient is to be thoroughly cared for.



Initial placement of the Maxillary Hawley Bit Plane.

Treatment began with the placement of a Maxillary Hawley Bite Plane. The use of the Bite Plane allowed for immediate control of the traumatic forces. Further, it aided in the relaxation of the musculature and the full seating of the condyles within their fossa. Initial scaling and root planing was followed with a surgical procedure to gain complete access to the root surfaces for thorough debridement. While the periodontal condition was given time to heal and mature, the patient’s occlusion was fully adjusted.



Overjet/Overbite Relationship after 8 weeks of continuous wear and initial occlusal adjustment.

At this stage of the patient’s care, her periodontal condition was fully controlled. While a probing depth of 4 to 5mm remained on the mesial aspect of tooth #14, there was no bleeding upon probing within her entire dentition. As her periodontal condition improved the patient asked if the aesthetics of her maxillary teeth could be improved. Including these teeth in the restoration required for the upper left quadrant was determined to be the most advantageous. Control of the contours of these teeth also allowed for the optimal establishment of anterior function and the development of a mutually protective occlusal scheme. With this in mind, a full coverage provisional restoration was fabricated, incorporating teeth #6 (the upper right cuspid) through tooth #15 (the Maxillary left second molar).

During provisional placement, close attention was paid to complete tooth preparation of the molar abutments. Multi-rooted teeth have furcations and often flutings within individual roots, providing sites for plaque accumulation. It is essential to thoroughly prepare away these areas to provide a smooth, non-plaque retentive surface subgingivally. In this way, the long-term maintenance of this area is significantly improved.

Following placement of the provisional restoration, the patient’s entire dentition is re-evaluated. Each procedure performed to date is evaluated for its contribution toward

CONTINUED ON PAGE 16

CASE PRESENTATION

CASE PRESENTATION-THE ART OF SAVING TEETH CONTINUED FROM PAGE 15



establishing a therapeutic occlusion. The periodontal condition was thoroughly evaluated, and it was found that there was no longer any bleeding upon probing. The patient's occlusion was stable. Although the regeneration of bone was not possible in the mesial defect of tooth #14, the establishment of a highly cleansable area that demonstrated an improved definition of the crestal lamina dura was evident.



Buccal view of the provisional in place demonstrating the development of physiologic gingival profiles and gingival health. The need for gingival augmentation to move the muscle attachment is apparent in this view.

While the final restoration is in process, it will closely follow the provisional architecture. A free gingival graft was ultimately placed on the mesio-buccal aspect of the upper left first molar to move the muscle attachment. The molars were also more entirely prepared to eliminate all root concavities and furcation undercuts. A view of the final tooth preparation and the presence of keratinized gingiva on the first molar is shown below.

Notice the extent to which the mesial furcations were barreled and the elimination of a fluting in the mesio-buccal root. A comparison of the anatomy of the prepared root surface with that of the interior aspect of the gingival sulcus demonstrates how the elimination of sub-gingival undercuts and replacement with smooth convex surfaces



Following removal of the provisional restoration the health of the gingival tissues surrounding the abutments is evaluated. The initial preparation of the molars demonstrates elimination of many sub-gingival undercut areas. Further, the health of the gingival sulcus can be seen as well as the soft tissue attachment to the tooth at the base of the sulcus. Even though an ultrasonic instrument was used to clean the cement from the teeth, bleeding was not evident. The need for augmentation of the soft tissue is also noted on the mesio-buccal aspect of the first molar.

allows for the development of ideal sulcus health. Once again, the health of the sulcus is apparent, as is the soft tissue attachment to the tooth. In addition, the placement of a soft tissue graft on the mesio-buccal aspect of the tooth is now visible.



CONTINUED ON PAGE 17

CASE PRESENTATION

CASE PRESENTATION-THE ART OF SAVING TEETH CONTINUED FROM PAGE 16

In conclusion, the Art of Saving Teeth begins with determining the correct diagnosis. In most cases, this requires seeing which disease processes are at work within a given dentition and how they can modify one another. While the American Academy of Periodontology feels there is only weak evidence to support that occlusal trauma can affect the severity of periodontal breakdown, we must recognize that our patients all are case studies of ONE. While all patient dentitions are composed of the same elements, patient dentitions are not the same. Patients have different bacterial flora, skeletal patterns, medical histories, and social histories, and they all use their teeth differently. As a result, it is virtually impossible to develop controlled studies to account for all of these variables. It becomes critical for the clinician to recognize this and to be able to integrate the treatment options available if the maintenance of teeth

is the objective. In the case at hand, the previous dentist wanted to remove the molars in question. The obvious question then becomes, how do we replace them? He/she thought implants. Implant placement in this particular quadrant would have been quite involved. Sinus grafts and healing time would have been required, leading to eventual implant placement. With every procedure, there is always the chance of a poor outcome. What happens to our patient if the implant process is unsuccessful?

Furthermore, management of the occlusion is complicated by the presence of a quadrant of implants with natural teeth on the contralateral side. How best do we accommodate bilateral simultaneous occlusion, a primary requirement for a therapeutic occlusion, when implants, which are directly connected to bone, are contralateral to natural teeth, which are attached by way of a ligament. Many times, saving, working with, and managing compromised teeth provides a more predictable clinical result. ■

ARTICLE OF INTEREST

CBCT INCIDENTAL FINDING Dr. Tarun “Ty” Saini

When we purchased our CBCT unit in 2007, understandably there was a concern for liability with regards to missing pathology when acquiring a scan for orthodontic purposes. Specifically, the worries centered around the what might exist outside of the traditional panoramic and cephalometric views we typically use for diagnosis and treatment planning. It took several years of multiple courses taught by radiologists, learning from reports we received from Oral Radiologists and ongoing continuing education, that I began to feel more comfortable when reviewing a CBCT volume. I also never hesitated to suggest to a patient that a Medical or Oral Radiologist take a closer look when I see something that may in fact be pathology.

A patient presented to our office for a routine orthodontic consultation. After a clinical exam, we advised full records and that the parent(s) return in about a week, so that we could discuss our diagnosis and treatment plan. Our office protocol has always provided enough time to review all diagnostic data (pan, ceph tracing, TMJ views, Orthocad models derived from our intraoral scanner, medical and dental histories, and clinical exam), before coming to any decisions, in the hopes that we do not miss any details. This opportunity allows us to first articulate to ourselves and then to our patients, what are the problems, solution(s), options, risks, benefits, and limitations.

This 9-year-old male was in good health and could benefit from Phase 1 intervention, thus we advised orthodontic records. I typically treatment plan on the weekends, when there are no disturbances in the office and I can focus on each new patient. As I was reading his CBCT volume, I noticed something odd that appeared in his right auditory canal. Usually, I will find cerumen (“ear wax”) and can easily visualize the three small bones (remember the malleus, incus, and stapes we learned about in anatomy class?). This was different, so I began to investigate further, looking at the area of interest in the three planes of space (sagittal, coronal, and axial – Figure 2). In each, I began to appreciate what I first saw. I then compared this to his left side – as we have all learned to look for symmetries or asymmetries when examining a patient clinically and radiographically. Nothing was present in his left ear and that canal was patent – well defined “black space” as an airway should look.

The area of interest had a spherical shape. I started to wonder what it might be? Some type of hearing aid? Perhaps another type of medical device? I reread his medical history and found nothing to convince me it was placed with intention. I searched the internet for some suggestions and could not come up with a differential diagnosis. Luckily, my wife is a pediatrician, so I sent her a screen shot, asking for advice. She could not confirm

CONTINUED ON PAGE 18

ARTICLE OF INTEREST

CONTINUED FROM PAGE 17

this was a medical device. I was stumped, a bit worried and very curious. It also happened that I was leaving for vacation the next morning and wanted to resolve this before I would be away.

Even though it was a Saturday and in the late afternoon, I decided to call the family. The mother informed me he had never received “ear tubes”, as many children do when they are young. I texted her pictures of the area and she was equally befuddled. I provided her with three options: first, call her pediatrician for follow up as soon as possible and I recommended avoiding any cotton q-tips for now, as this may move the “object” further medially into the canal. Second, go to an Urgent Care facility, if the pediatrician recommends they be seen today. Third, come to my office, so that I could examine his ears and try to ascertain what this might be.

She decided to come into our office. I’m grateful for the experience I had in my one year General Practice Residency at a Level One Trauma hospital, between Dental School and Orthodontic Residency. We were exposed to a great deal of medical procedures that reinforced what we learned in school or taught us for the first time. In fact, it was there that I learned just a little bit of how to read CTs, not realizing that about 10 years later, dental CTs would exist and I would have one. I spent time in the department of otolaryngology (ENT), watching adenoids and tonsils being removed, turbinates reduced and deviated septums corrected – all of which have contributed to my orthodontic knowledge and

practice today. Of course, we were also taught how to use an otoscope to examine the ears and nose. Since I began practice in 2001, I have kept an otoscope in our medical emergency kit.

When the patient presented to the office, he had no clue what he was there for, asking “where is everybody?,” since it was a Saturday evening and the office was empty. I explained to him what I wanted to do, how and why. I showed him the pictures from the CBCT on the large monitor. He said he had no pain in his right ear. His mother also stated he had been to his pediatrician not too long ago and they did not notice anything. Perhaps it happened after that appointment? He allowed me to look. I began to visualize the object and attempted to slowly move it, using a q-tip. I then reiterated to the family what their options were and I also offered to try and remove it, having the confidence that it was not too deep, was moveable and that I knew my limitations with the instruments on hand. They agreed to have me try. I used water through our chairside unit to see if that would dislodge the object. A fair amount of wax did start to loosen up. I then tried using the q-tip in one hand and a tweezer in the other. In less than a few minutes and with no discomfort to the patient, I was able to remove the foreign object.

The family and I looked at what was extracted. We could not figure out what it might be, beyond the possibility of a part of a toy. The patient commented that he did use ear buds (in-ear headphones) occasionally during the pandemic, but the parents suggested that was very infrequent, given his young age. They did recall a time when a younger sibling

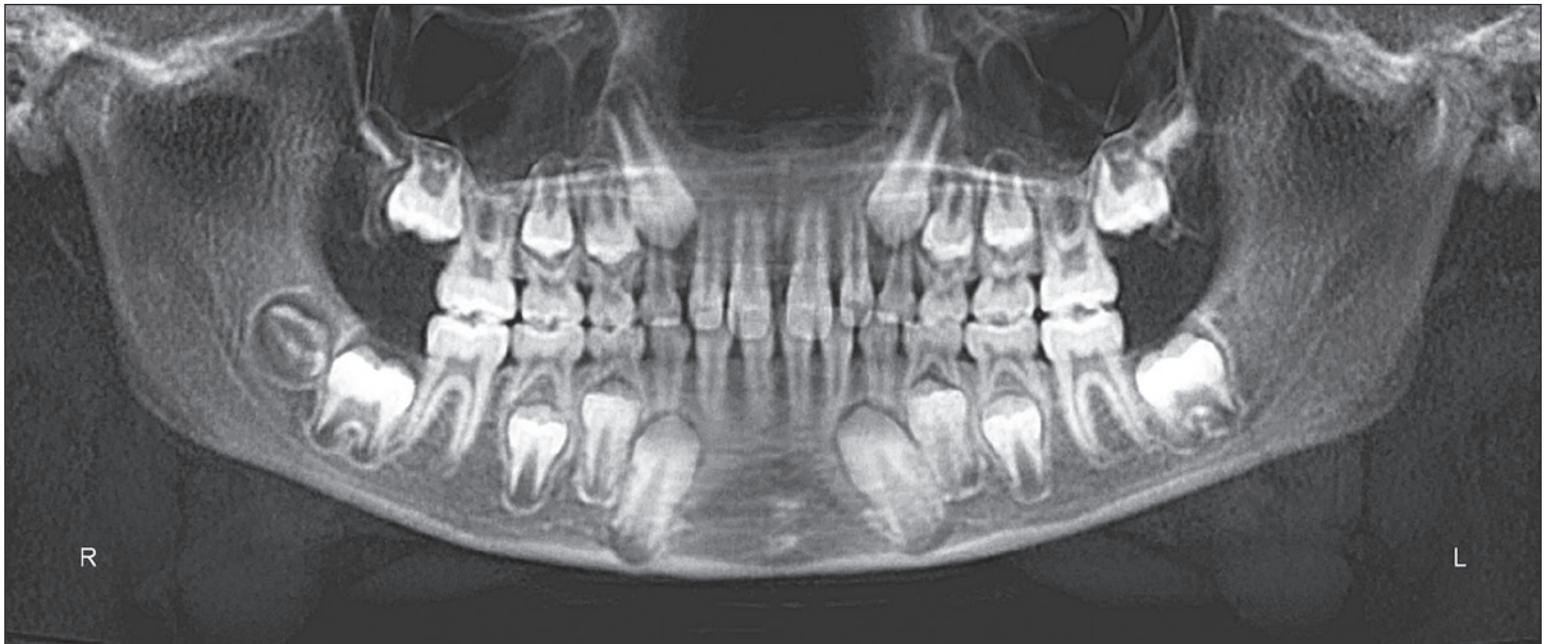


Figure 1: Panoramic View

CONTINUED ON PAGE 19

ARTICLE OF INTEREST CONTINUED FROM PAGE 18

may have stuck a toy in the older brother's ear, after he complained about a fight that ensued after playing with each other. To this day we do not really know. The object was somewhat flexible and in one piece. As expected, it had a fair amount of dried cerumen around it.

The parents left very grateful and the patient remained more interested in the toys in the reception room. I appreciate every new patient that comes to our office for an exam/consultation, to allow us to not only take full records, but

to then not press us with “what will you do” and “how long will it take?” on the first day. These are understandably fair questions many individuals have in their minds. I would love to answer them, but after 22 years as an orthodontist, I still do not have all of the answers after just clinically examining someone or even looking at a pan (Figure 1). I do not want to miss anything and then face a problem further into treatment, having to explain why, or fix something that could have been avoided from the start – a goal that we all share. This is certainly how we were taught in residency and continues to serve me well, as I try to be a better diagnostician, develop a treatment plan, hopefully gain the trust of our patients and show them that orthodontists are not merely focused on perfecting their smile. ■

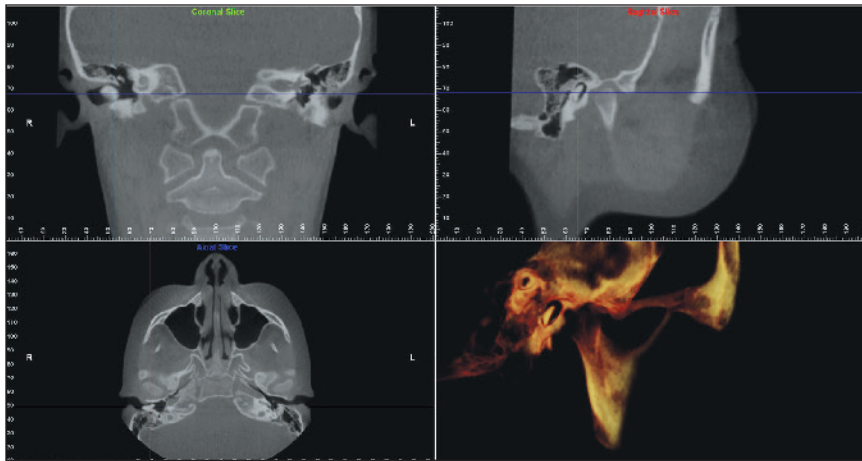


Figure 2: CBCT collage of the area of interest. The intersecting lines are positioned over the foreign body.

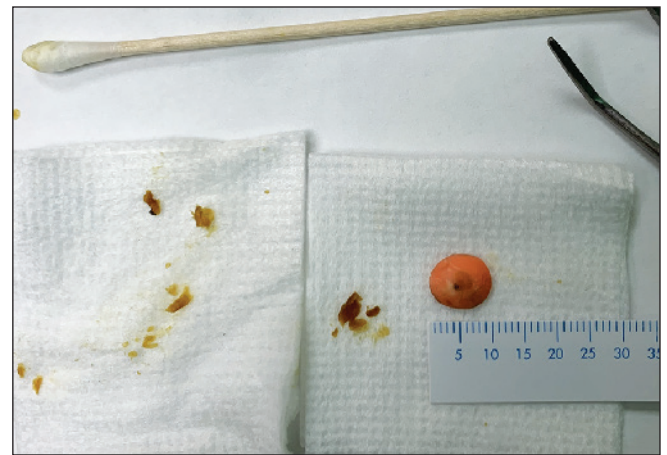


Figure 3: The foreign body removed.

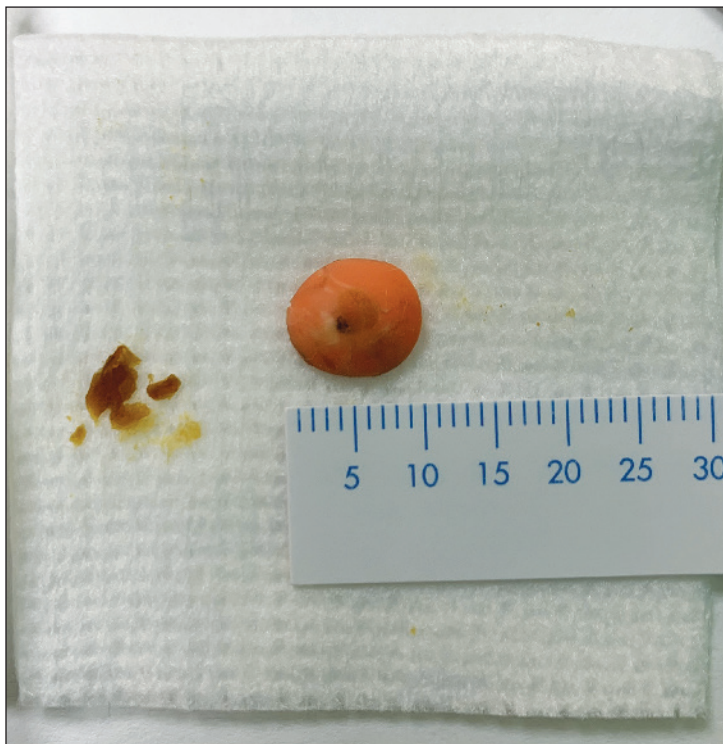


Figure 4: A closer view of the foreign body, that we estimated may be a part of a child's toy.



Figure 5: The foreign body as it first appeared when the right auditory canal was examined through an otoscope.



American
Association of
Orthodontists®

AAO Strategic Plan FY2023-2027

Mission	To advance the art and science of orthodontics through education, advocacy and research.			
Vision	We are the most qualified, trusted and accessible resource for delivering excellence in orthodontic patient care.			
Core Values	Our members come first	We embrace diversity and inclusion	We are data-driven	We seek active engagement
Goals and Objectives	PROMOTE AND DEFEND OUR SPECIALTY	<ol style="list-style-type: none"> 1. Increase awareness of the profound health and cosmetic benefits of specialized orthodontic care 2. Mobilize AAO members to actively engage in AAO's advocacy efforts to advance our regulatory, legislative and policy priorities 		
	ENGAGE AND DELIGHT OUR MEMBERS	<ol style="list-style-type: none"> 3. Foster a welcoming membership community through timely and responsive communication, inclusion and trust 4. Deliver offerings that address member needs to position AAO as the provider of choice for education, knowledge and resources for ALL orthodontists 5. Reimagine AAO's governance structure to improve diversity, representation and agility 		
	DRIVE TRANSFORMATION AND INNOVATION	<ol style="list-style-type: none"> 6. Position AAO as the global leader in advancing innovation and technology in orthodontics 7. Explore partnerships, collaborations and investments that can add scale and speed to advancing AAO's mission and vision 		
Initiatives	Public and Member Communications	Advocacy	Inclusion	Discovery and Innovation

AAO COUNCIL REPORTS



COUNCIL ON COMMUNICATIONS

Dr. Lawrence Wang

The council members and talented AAO staff have continued the important work of engaging and educating parents and patients and strengthening the value of AAO membership. The council met in person September 29-30, 2023, at the AAO headquarters in St. Louis and will meet again February 2-3, 2024. Please see below for an update on COC activities, and feel free to contact me with any questions or ideas (larwang@comcast.net).

Below are the Consumer Awareness Program & Member Marketing highlights for the first half of FY24.

CONSUMER AWARENESS PROGRAM (CAP) UPDATES

The AAO CAP is the only mass campaign promoting orthodontic treatment by an orthodontist. The CAP is digitally focused; the objective of the CAP is to educate the public by driving them to the AAO consumer website.

FY23 Performance through the end of November

- Over **2.2 million** visits to aaoinfo.org
- Nearly **8 million YouTube video views**.
- Over **111 million digital media impressions**.
- Over **3 million ad clicks**

FY24 Performance through the end of November:

- Driving over **4.9 million users** to aaoinfo.org. That's double the number of users from the first half of FY23 and +50% above our FY24 goal!
- Over **11 million YouTube video views**, +37.5% over last year.
- Over **700 million digital media impressions**, +531% over last year
- Over **7 million ad clicks**, +129% over last year

Below are some recent & upcoming updates within the CAP Program:

- **Bullying Bites Recap:** In honor of National Orthodontic Health Month in October, the AAO observed National Bullying Prevention Month for the fifth year. To make it easy for you to join the #bullyingbites campaign, the AAO provided easy-to-use downloadable resources on the Practice Marketing Tools page on the Member website. In 2023, we saw a significant increase in visits to the Bullying Bites section on the Practice Marketing Tools page: 7,000 in 2023 vs. 1,950 in 2022. We also saw increased social media impressions, 65K in 2023 vs 56K in 2022.

- **SEO Efforts Underway:** We have started laying the foundation of our search engine optimization efforts, including a consumer web page prioritization plan, multiple landing page content reviews, the update of title and headlines to help search engines find the relevant content on each of our landing pages, and the work has begun to start revamping both the Find an Orthodontist page and the landing pages as well. This will take some time, but we will continue to work through updates in the coming months.

- **Media Strategy in FY24:** Steady Rain, our digital marketing agency, which is coming up on its first anniversary in January with the AAO, continues to improve our media buying efforts significantly. They have contributed to significant improvements in our overall visitors to the consumer website and continue to drive efficient media spending across all channels and lower our cost-per-user goals. As we head into 2024, we will be looking at the traffic to the consumer website and the engagement of the users on the website. By ensuring visitors reach our consumer website and actively engage with content, we emphasize the importance of informed decisions regarding orthodontic care.

- **In 2024, the AAO is partnering with influencer Taryn Newton**, a blogger, lifestyle influencer, and mom with over 760K Instagram followers. 99% of her followers are women and 80% are between the ages of 25-44. The goals of the campaign with Taryn will be to educate the consumer on the importance of seeing an orthodontist at age 7, increase brand awareness of AAO among one of our target demographic groups, drive traffic to aaoinfo.org, and boost engagement with AAO social media content. Taryn will post a series of engaging Instagram stories, one post, and the AAO will be featured in her weekly newsletter. This campaign will kick off in January/February 2024.

- **New Creative coming Spring 2024:** The Science of Smiles, a new creative campaign for 2024, will not only place orthodontists in the spotlight but position them as the ultimate authorities in the science behind the smile. Through these engaging and educational videos, we're demystifying common consumer questions and highlighting orthodontists' unique education and training, establishing them as the go-to experts sought after for their exceptional knowledge and skill. This new creative campaign will launch in the spring of 2024.

MEMBER MARKETING UPDATES

The AAO Board of Trustees identified Member-Centric Marketing and Communications as one of three objectives the AAO should prioritize.

CONTINUED ON PAGE 22

AAO COUNCIL REPORTS

Below are updates on our marketing efforts being employed:

- **Omni-Channel approach to membership marketing:** Our member-centric marketing and communications strategy puts our members first in what we communicate about. The strategy includes increased posting on social media, strategic solo emails on specific topics, oversight of topics covered in the eBulletin, increased texting, and keeping all-volunteer leadership in the know about all areas of the association.
- **eBulletin:** Reading the weekly eBulletin is the number 1 action we want members to take with the AAO, and we use this to communicate the critical AAO and industry news happening each week. We regularly see open rates above 60%, representing over 10,000 members.
- **Member Minute:** Our AAO member influencer program allows members to hear straight from their colleagues on

social media about important AAO news and benefits each month. In recent months, Drs. Trista Felty, Neal Kravitz, and David Sarver have helped us spread the word about Annual Session registration, TechSelect, and Winter Conference.

- **Ortho Staff Outreach:** Continuing efforts to connect with members' office managers to communicate more easily with offices about marketing campaigns or relevant educational opportunities. We currently have a list of over 600 office staff contacts.
- **Texting:** Increased texting with members to highlight AAO news, benefits, events, and programs better.

Thank you, as always, for your membership in the American Association of Orthodontists and the Middle Atlantic Society of Orthodontists. ■



COUNCIL ON EDUCATION Dr. Padma Mukherjee

A Very Happy New Year to dear friends in MASO.

The Council on Orthodontic Education (COE) met on October 2, 2023. It was an all-day meeting at the AAO headquarters in St. Louis, MI. Dr. Ki Beom Kim continues to serve as the Chair of the COE for 2023-2024. The members and liaisons of the COE include Sercan Akyalcin, Paul C. Armbruster, Jeff Iverson, Padma Mukherjee, Martin J. Palomo, Reginald Taylor, Xingzhong (John) Zhang, Paul Rossouw (ABO), Mitchell Lipp (ADEA Councilor to COE), Christos Papadopoulos (CONYM Liaison), Richard Williams (Board Liaison).

The council's responsibilities are to evaluate and make recommendations on all matters relating to orthodontic education. Our council consults with all appropriate dental, educational, and governmental organizations with regard to orthodontic education.

The 2023 meeting was very productive, and here is a summary. Trey Lawrence gave an update on AAO advocacy and is working with the Subcommittee on Evidence-Based Advocacy to improve consumer awareness. The AAO will continue its support of the Full-time Faculty Teaching Fellowship Award Program and other awards to improve faculty retention and decrease the shortage of orthodontic educators. The COE also recommended supporting the donated Orthodontic Services. The next Society of Educators Meeting conference is in honor of Dr. Ravindra Nanda and is at the AAO annual meeting in New Orleans, LA, which will be held on Friday, May 3, 2024.

Dr. Mitchell Lip was welcomed as our new ADEA Councilor to AAO. He provided a report on the current ADEA Section of Orthodontics. The American Dental Education Association (ADEA) plans to host its 2024 Annual Session in March in New

Orleans, LA. The theme for the meeting is New Beginnings and Endless Opportunities.

Dr. Emile Rossouw, the ABO liaison, provided updates on the ABO Written and Clinical examinations. ABO-certified orthodontists now constitute 61% of the AAO membership. This is the highest it has been and is a testament to the endless efforts of the ABO Board members, examiners, and staff. The next Clinical Examination is scheduled for Feb 22-23, 2024, with online registration available through October 20. A second examination will be offered on September 17, 2024; registration opening is scheduled for November 1, 2023. These examinations will be held worldwide in Pearson-Vue Testing Centers.

The COE proposed budget for 2023 – 2024 was discussed and accepted. The next COE meeting will be at on September 9, 2024.

The COE wants to hear from our members and educators and is working for you to improve orthodontic education. If you have any topics that you wish to bring to the COE, please feel free to contact me at padma.mukherjee@rutgers.edu.

I look forward to seeing you at the next MASO and AAO meetings. ■



Taken at the COE Meeting on October 2, 2023.

AAO COUNCIL REPORTS



COUNCIL ON GOVERNMENT ADVOCACY Dr. Jean Edouard Asmar

2024 has already started with the Council on Government Advocacy (COGA) working hard on behalf of our association. We continue to build on our 2023 successes and accomplishments with our member advocacy priorities. Our key issues remain as follows: workforce challenges, small business issues, student loan debts along with patient health and safety relating to mail order Orthodontics. We had a conference call on 1/16 to nominate and elect a new COGA chair and to finalize planning for our upcoming joint COGA-AAOPAC

in Washington, DC which will take place in concert with AAO's 2024 professional Advocacy Conference (2/26 - 2/28). We will meet for a day and a half prior to the actual start of the meeting. We also met in person back on 11/9-11/11, 2023 and worked hard on planning and finalizing all preparations for this upcoming Advocacy meeting. This should be one of the most successful meetings to date. I would like to mention that this year is the 30th anniversary of AAOPAC and to urge you all to make a contribution at AAOPAC.org.

Those dollars are instrumental in helping to fuel our advocacy priorities not only at the federal level but in states across the country.

Join us at the joint COGA/AAOPAC meeting in St. Louis. ■



Picture 1: Dr. Jean Asmar with our COGA chair, Dr. Philip Mansour.

Picture 2. Dr. Jean Asmar with Drs. Valerie Martone and Doug Harte.



COUNCIL ON MEMBERSHIP, ETHICS & JUDICIAL CONCERNS Dr. Tarun "Ty" Saini

This is my first year at COMEJC, and I am following in the footsteps of **Dr. Luis Toro, Jr.**, so I have much to learn and a high standard to meet. I want to thank him for his many years of dedication to this Council and wish him the best as he serves MASO and the AAO in additional capacities.

Our first meeting was held via Zoom on June 20, 2023, and it allowed the members to get to know one another (4 of us are new) and discuss our roles and responsibilities. The

onboarding process has been very effective and directly reflects the wonderful staff at the AAO and our Council Chair, Dr. Matthew Ng.

Here are some updates you might be interested in:

HOD Resolutions

- COMEJC submitted four resolutions to the 2023 AAO House of Delegates that were adopted. The following is a summary of the outcomes:
 - **07-23 COMEJC Bylaws Amendment (disciplinary and membership proceedings)**
Result: Bylaws have been amended to remove the specifics of disciplinary and membership proceedings, also listed in the AAO's Principles of Ethics document.

CONTINUED ON PAGE 24

AAO COUNCIL REPORTS

- o **13-23 COMEJC Amendment to Financial Policy (Service Member dues)**

Result: Policy has been amended to remove redundancy of information regarding Service Member dues.

- o **15-23 COMEJC AND 16-23 COMEJC – Amendment to Financial Policy (Waivers)**

Result: The resolutions from COMEJC were considered together in resolution 16-23 RC, which was adopted. The dues waiver policy has been amended to include “force majeure” as a condition, including acts of military authority, and give the final decision on dues waiver applications to COMEJC.

- o **17-23 COMEJC – Amendment to Principles of Ethics (disciplinary proceedings)**

Result: Principles have been amended to provide more details on the role of the COMEJC Chair and staff during the complaint process.

- o **18-23 COMEJC – Amendment to Principles of Ethics (member resignation)**

Result: Principles have been amended to clarify that members who terminate their memberships are still subject to disciplinary proceedings if/when they reinstate.

- One additional resolution was referred to COMEJC:

- o **06-23 COMEJC – Bylaws Amendment (retired membership eligibility)**

Result: This was referred back to COMEJC, along with two substitutions, for further review. COMEJC will report back to the 2024 HOD.

Member Programs

- On April 4, 2023, the AAO hosted a live webinar, “Ethical Considerations for Orthodontists,” which was recommended

and developed by COMEJC in collaboration with staff. The webinar was formatted as a panel discussion featuring COMEJC member Dr. Scott Arbit, AAO General Counsel Trey Lawrence, and ethics professor Nanette Elster. The webinar recording is available to AAO members at no cost here: <https://education.aaoinfo.org/sessions/12718/view>.

- COMEJC continues to oversee the Resident Vitals and Financial Management for Residents presentations offered to residency programs annually (in-person or virtually). Invitations were sent to orthodontic program chairs and directors to sign up for the presentations in August 2023. Presentations may also be requested at <https://www2.aaoinfo.org/programs-for-residents-and-educators/orthodontic-program-presentations/>.

Membership Trends

- From the AAO Secretary’s Report (March 2023):
 - o Active Membership (U.S. and Canada) is now at 8,430, a net increase of 43 year over year and an all-time high, eclipsing the previous record of 8,421 in 2011
 - o Total AAO membership is now at 19,103, a net increase of 251 year over year.
 - o Total member retention is 93.9%.
 - o Active Member retention is 97.2%.
- The AAO’s updated U.S. market share number is 86.4% as of May 31, 2023.
- Canadian membership growth is one of COMEJC’s strategic priorities for 2023-24.

Our next in-person meeting will be held on Friday, January 5, 2024, in St. Louis. ■



COUNCIL ON NEW AND YOUNGER MEMBERS

Dr. Lauren Wiese

The Council on New and Younger Members is excited to begin 2024!

CONYM members will convene in-person for our annual meeting on Saturday February 3, 2024 in St. Louis. At this meeting, members will update and discuss their progress on the following endeavors/topics.

At a CONYM meeting in November 2023, the AAO Vice President of Governance and Membership, Brandon

Hackworth, presented a high-level strategy for engaging with residents and new orthodontists. It consists of four primary objectives that are supported by various strategies and tactics:

1. Build awareness and usage of AAO advocacy, education, and other relevant programs.
2. Create a welcoming community where members feel engaged in the AAO and specialty.
3. Develop AAO advocates among orthodontic educators.
4. Offer resources and programs that are based on members’ needs and easy to consume.

Currently, CONYM feedback is being incorporated, then timelines and budgets will be developed. An updated strategy with timelines will be submitted prior to the February Board meeting.

CONTINUED ON PAGE 25

AAO COUNCIL REPORTS

As stated above, resident engagement continues to be a priority for the council. The Resident Champions Program is working on ways to leverage CONYM members at each residency program. Connecting Resident Champions with the CONYM representatives from their constituencies will help to grow the program. CONYM members are also being considered to present the Resident Vitals program for residents.

A New Resident Onboarding program is in the works! A conversation engagement tool called PropFuel will begin an ongoing dialogue with new residents as they begin their orthodontic residencies and join the AAO as student members. Then members of CONYM will be initiating a member onboarding process to contact newly transitioned active members of the AAO as they finish their programs. The purpose is to welcome them as new members, establish a point of contact on CONYM, and build emotional connections that lead to engagement and retention. CONYM members will reach out to new active members in their constituent region and personally welcome them.

Each year, CONYM plans and facilitates the New Orthodontist and Resident Conference at the annual session. In February, we will discuss the program format and agenda, identify topics for presentations and roundtable discussions, and confirm speakers and discussion moderators.

CONYM would also like to welcome its newest member, Dr. Natalie Miller, who grew up in Southern Maryland along the Chesapeake Bay. She currently practices at Labbe Family Orthodontics in Maryland. Dr. Miller will be representing MASO on CONYM since Dr. Lauren Wiese recently relocated out of MASO (Dr. Wiese will continue to serve on CONYM as a consultant for the remainder of 2023-2024 council year).

CONYM continues to represent the AAO at the annual GORP and ASDA meetings and we look forward to continuing our representation at these conferences in 2024.

We welcome your outreach at any time with any questions, comments, or suggestions. ■



**COUNCIL ON
ORTHODONTIC PRACTICE**
Dr. Madeleine Goodman

GENERAL: COOP held its annual in-person meeting in St. Louis the weekend of December 9th. Below is a recap of our ongoing programs as well as some initiatives we have in the works.

OFFICE DESIGN SERIES: As a friendly reminder, the AAO is proud to have released their efforts on an entirely new approach to the AAO office design webpage. Its infrastructure is supported by the professional contribution of orthodontic design and business field experts: <https://www2.aaoinfo.org/practice-management/office-design-for-the-orthodontist/>.

AAO PRACTICE MANAGEMENT FORMS: To best serve the membership and their clients, informed consent forms of varied topics are available to you on the AAO website. I am confident that there is something there that you may not have considered for your practice – please take the time to visit. COOP welcomes all member recommendations in an effort to modernize AAO forms as well as share subject suggestions (or example consent forms used in your practice) perhaps not yet broached by the AAO. Please note: review of material or a new subject or modification does not confirm future use by the AAO. Needless to say, significant vetting and legal review is required however we thank you for any contribution to the membership.

AAO-SPONSORED WEBINARS: COOP embraces the coordination of topics for AAO webinars throughout the year. A new topic was recommended by COOP, paving the path to a webinar addressing sensitive topics that clinicians face. The upcoming 2024 webinar schedule is as follows. Please visit the AAO website for a comprehensive listing.

Date	Webinar Subject	Presenter(s) / Moderator	Category/Personas/Tags
Jan 11th	OSHA: Team-Up for Safety!	Jackie Dorst	All Team
Feb 5th	Data Science in Orthodontics	Dr. Jonas Bianchi	Doctor - Business of Ortho
Feb 7th	HR: Conflict Resolution in the Workplace	Paul Edwards	Doctor - Business of Ortho
Feb 21st	Selling to a DSO	Shannon Patterson and Doug Copple	Doctor - Business of Ortho

CONTINUED ON PAGE 26

AAO COUNCIL REPORTS

ORTHODONTIC STAFF CLUB (OSC): Doctors are encouraged to continue the promotion of the Specialized Orthodontic Assistant program as well as clarify the benefits of membership on-line (website access, fee discounts, and the like). The OSC Facebook page has been transformed into a valuable education resource, encompassing topics such as team training, bolstering the member business acumen, clinical pearls, etc. We are planning to update this program in 2024. Please join us: <https://www.facebook.com/groups/AAOstaffclub>.

PRACTICE TRANSITION PORTAL: This committee aims to review, improve, and update the Practice Transition Portal as needed. Stay tuned for more updates!

SUSTAINABILITY SUBCOMMITTEE: We started a committee within COOP that will be working on resources that will help us limit our environmental impact as practitioners and as an organization as a whole. We have a number of exciting initiatives in the works and hope to have some up and running by this summer. Stay tuned!

COUNCIL TRANSITIONS: This summer, COOP Council will be experiencing the transition of two of its members from NESO and SAO, Dr. Renee Pompei and Dr. Robert Selden.

I welcome you to reach out at any time with questions, comments, or suggestions that I may share with the Council throughout the year. Thank you for your trust and support! ■



**COUNCIL ON
SCIENTIFIC AFFAIRS**
Dr. Jose Bosio

The Council on Scientific Affairs (COSA) met via Zoom on January 5, 2024, for a three-hour meeting. The following items were discussed;

COSA reviewed 19 applications for the Hellman, Sicher, and Graber Awards, and each COSA member independently ranked the applications. The following are the 2024 AAO Research Awards winners:

Milo Hellman Research Award to Dr. Elizabeth Soulas from the University of Michigan for research titled: *In Vivo Analyses of Small Pore Polymer Scaffolds for Creation of an Artificial Cranial Stem Cell Niche*

Harry Sicher Research Award to Dr. Sheng Wang from Ohio State University / University of Maryland for research titled: *Nociceptive Nerves Mediate Orthodontic Tooth Movement via Substance P and Mechanosensitive Ion Channel Piezo 2*

Thomas M. Graber Awards of Special Merit to:

Dr. Erika Babikow from the University of North Carolina – Chapel Hill for research titled: *Immune Dysregulation in the Oral Cavity During Early SARS-CoV-2 Infection*

Dr. Brittany Trinh from the University of Texas – Houston for research titled: *Molecular Rescue of a Mouse Model: Primary Failure of Eruption*

Dr. Erin Yoshida from the University of Washington for research titled: *Mitigation of Aerosol Particles during Composite Attachment Removal*

Dr. Katherine Chapman from the University of Connecticut for research titled: *Development and Application of a Deep Learning Algorithm for Automated Identification of Landmarks on Lateral Cephalograms Using RCNN*

The Hellman, Sicher, and Graber lectures will be held at the Annual Session on Saturday, May 4, 2024, from 1:30 pm-3:30 pm. Before the Hellman lecture at 1:15 pm, the award winners will receive their award plaques. COSA invites all Annual Session attendees to come and listen to these award-winning lectures.

The 2025 Hellman, Sicher, Graber online application will be available on March 15, 2024. The deadline to apply is October 1, 2024.

There were 362 applications received for the programs sponsored by COSA. COSA accepted 16 Oral Research applications, 315 e-Poster applications, and 31 Table Clinic applications to be presented at the 2024 AAO Annual Session. The Oral Research presentations will be held at Annual Session on Sunday, May 5, 2024 from 8:00 am – Noon. The Table Clinic program will be held at Annual Session on Sunday, May 5, 2024 from 9:30 am-11:30 am. COSA will judge the Table Clinics and award the Joseph E. Johnson Clinical Award.

There will be no hard copies of Posterboards displayed at the Annual Session. e-Posters will be available for viewing during the Annual Session and until July 31, 2024, on the AAO website.

Two best-selected oral research studies will be presented at the Society of Educators meeting during the 2024 AAO New Orleans Meeting.

COSA is accepting applications for the 2024 William R. Proffit Resident Scholar Award program at the 2024 AAO Annual Session. The online application can be found on the AAO website. The deadline to apply for this program is February 1, 2024. COSA members will judge this program on Saturday, May 4, 2024. The awards will be given during the open hour of the program from 1:00 pm-2:00 pm on May 4.

COSA will meet during the Annual Session. COSA meets every January via Zoom. The next Zoom meeting is scheduled for January 10, 2025. ■



AAOF UPDATE Dr. Orhan Tuncay

- We invite all AAO members to support the foundation by making an annual [donation](#). We appreciate any level of support that can be donated to the foundation.
- The [Resident Education Program](#) will return for the 2024 meeting. The AAOF saw 430 orthodontic residents in Chicago and mailed out \$400 to each.
- The 2024 AAOF Awards Program application deadline recently passed and over 40 proposals are entering the review process.
- The AAO Foundation is currently going through a strategic planning process and is eager to share the results of this effort in 2024.

REMEMBER THE AAO FOUNDATION IN YOUR CHARITABLE GIVING

Did you know that the AAO Foundation can accept donations not only online, but via stock transfer as well? Please consider making a [donation](#) to the foundation in 2023. If you are interested in becoming a monthly donor, think about joining the Century Club. This is for donors who give a minimum of \$100 a month. You can sign up for this option on our [website](#) or by calling the office directly.

Also keep the AAO Foundation in mind as you create your estate plans. If you have the AAOF in your will, as a beneficiary

on your retirement plan or life insurance, mentioned in your trust, etc. please notify the AAOF staff office so we can properly steward your donation as a [Keystone Society](#) member. We appreciate your generosity and your consideration of joining the Keystone Society.

AAOF NEW VP SEARCH

The AAOF is in the process of hiring a new VP to fill the role previously held by Jackie Bode. The interim contact for this position is Chris Olden, VP/CFO for AAO.

DONATED ORTHODONTIC SERVICES (DOS) IS TEMPORARILY ON-HOLD

Due to recent staffing changes, all applications have been placed on hold and no new applications are being accepted until the position is filled. If you are interested in volunteering in 2024, please reach out to AAOF after the new year.

AAOF AWARDS PROGRAM

Since the inception of the AAOF Awards Program, the AAOF has given back over \$15 million to the orthodontic specialty through research and educational support. 29 proposals were selected for funding in 2023 and the review will begin soon for those who submit their proposals to be considered in 2024.

Dr. Palomo was one of those who received funding for his research in 2023. To view the entire list of research funded by AAOF, please visit the [Awards page of our website](#).

FOR MORE INFORMATION

If you should have any questions or concerns, please contact Chris Olden, Vice President/CFO, at 314-292-6507 or colden@aaortho.org. ■



Dr. Palomo receiving the check funding his research in 2023.



AAO HOUSE OF DELEGATES

Dr. Richard H. Albright, III

The MASO representatives to the AAO House of Delegates are honored to represent our constituency at the AAO Annual Session in New Orleans this May. The Delegates and the MASO Board of Directors will be meeting on March 9 at our mid-winter MASO meeting at The Hotel Du Pont in Wilmington. Resolutions to the 2024 HOD will be posted on the AAO website, and member comments are highly encouraged. Members can participate by attending live sessions, viewing proceedings virtually, and commenting on resolutions with the online commenting tool.

The MASO delegation would like to welcome our new members to the House of Delegates for 2024: Dr. Lara Minahan, Dr. Sana Pasha Augustus, and Dr. Jacob Orozco. As well as our returning members: Dr. Richard H. Albright III, Dr. Douglas Harte, Dr. Richard Isaacson, Dr. Kathy Lynn Marshall, Dr. Jean McGill, Dr. Alireza O. Rajaei, and Dr. Tarun Saini.

The AAO is a thriving association with strong membership retention and a stable financial foundation. The HOD represents the AAO membership. It is the governing body of the AAO and plays a significant role in the approval of the operating budget, implementation of the strategic plan, the establishment of annual dues and assessments, and promotion of policy changes for the betterment of the organization. The MASO delegation is proud to represent our diverse membership at the AAO, and we look forward to advancing our specialty and leading the AAO into the future. ■



The MASO Delegation at the AAO House of Delegates in Chicago, April 24, 2023. Standing left to right: Dr. Doug Harte, Dr. Ty Saini, Dr. Dave Harmon, Dr. Jean McGill, Dr. Rick Albright, Dr. Luis Toro, Dr. Steven Siegel, Dr. Kathy Marshall, Dr. Jean Edouard Asmar, Dr. Rick Isaacson and Ms. Jane Treiber.



AAO PAC UPDATE

Dr. Doug Harte

AAOPAC CELEBRATES 30TH ANNIVERSARY!

The AAOPAC is celebrating 30 years of supporting candidates running in federal elections whose priorities align with the AAO's. This comes on the heels of their exciting and record-breaking achievements in 2023. Between January 1-December 31, 2023, AAO members contributed \$456,796 to the AAOPAC – surpassing the previous record in 2018 by over \$100,000!

AAOPAC contributions are received by lawmakers who have supported the AAO's priorities, either directly or indirectly, or may do so in the future by introducing and co-sponsoring bills for which the AAO has advocated.

As we build these positive bi-partisan relationships, we also find that federally elected officials help tremendously with state efforts via their relationships with their home-state colleagues. This means that AAOPAC helps fuel advocacy success in Washington, D.C. and states nationwide.

The AAOPAC's continued goals are to raise AAOPAC dollars and grow the number of contributors to 1303 to address our issues of tele-dentistry, workforce, and student debt concerns, among a few, this year.

The PAC continues to recruit and secure AAOPAC Captains as part of the National Advocacy Network (NAN) across the United States to help achieve AAOPAC goals.

I want to give a special shout-out to **Dr. Ty Saini**, our PAC Captain for the State of Maryland. He is working on rule-

making and coordinating with our orthodontists in Maryland to provide public comments on regulations being created. Dr. Saini is a prime example of how our National Advocacy Network is being used to create immediate responses on the state level to issues that concern the AAO.

At our last Constituent meeting, MASO AAO Trustee **Dr. Steven Siegel** and AAOPAC Board Director **Dr. Douglas Harte** matched all PAC contributions by MASO membership through September 2023 to a combined total of \$7500.

Looking ahead to our 2024 Annual Session in New Orleans, celebrating our 30th anniversary, a donation of \$30.94 will give you access to the AAOPAC Lounge with food, refreshments, and charging stations amongst the comfortable couches and chairs. For a donation of \$250, you will gain access to the Lounge and an invitation to the 2024 Professional Advocacy Conference in Washington, D.C., on February 27th-28th. A donation of \$1094. gives you all the above and a special limited edition 30th Anniversary AAOPAC contributor pin.

The *easiest* way to contribute to the AAOPAC is to visit the website : www.aaopac.org. (It only takes a minute and you need a credit card and email address associated with AAO membership. Recurring credit card contributions are always preferred.)

Remember that all donations must be made by US citizens. If you are not a US citizen, we highly encourage you to donate to the AAOF. ■

DATES TO SAVE

AAO PROFESSIONAL ADVOCACY CONFERENCES

February 27-28, 2024

March 11-12, 2025

March 17-18, 2026



ABO CONSTITUENCY REPORT

Dr. Roberto Hernandez-Orsini

The ABO is committed to upholding our mission to elevate the quality of orthodontic care for the public by promoting excellence through certification, education, and professional collaboration.

ABO Examination Update

Currently, 61% of AAO orthodontists are board certified. Reaching this level of accomplishment is significant, allowing us to collectively impact our specialty.

Once an orthodontist successfully completes the ABO Written Examination and graduates from a CODA-accredited advanced specialty educational program in orthodontics and dentofacial orthopedics in the United States or Canada, the orthodontic professional may register for the ABO Scenario-based Clinical Examination. Once board certification is achieved, a time-limited certificate is awarded, with a Certification Renewal Examination required every ten years to remain board certified.

Written Examination

Online registration for the 2024 ABO Written Examination opened November 8, 2023, and will close January 10, 2024. The examination is scheduled for April 2, 2024, at Pearson Vue Testing Centers in the United States and Canada. In addition, April 9 has been identified for the 2025 examination,

CONTINUED ON PAGE 30

with registration scheduled to open on November 6, 2024. To assist in preparation for the examination, a 2024 Written Exam Reading List along with practice questions are located on the [ABO website](#). Should you have questions to submit for consideration on a future Written Exam (including multiple choice with a reference), please contact info@AmericanBoardOrtho.com.

Scenario-based Clinical Examination

Two dates are scheduled for the 2024 Clinical Exam. Dates for the 2024 Clinical Exam have been identified as February 22-23 (currently at total capacity) and September 17 (online registration is open and will close June 20, 2024, or once complete). Examinations are administered at Pearson Vue Testing Centers Worldwide.

September 17 has also been identified for the 2025 Clinical Exam testing date. Note that beginning in 2025, the ABO will transition to one fall Scenario-based Clinical Examination per year. In addition to the many resources already available on the [ABO website](#) to prepare for the exam, new documents recently added include ABO Case Preparation Work File, ABO Case Preparation PowerPoint Template, and ABO Case Presentation Feedback Template.

Certification Renewal

Renewal of board certification is required every ten years, with individuals set to expire within three years notified in advance by the ABO. Two options to renew are available, including an Online Board Case Exam or a Mail-In Case Report Exam, both of which also require submission of completed AJODO online examinations with continuing education credits. Although unlimited seats are available for the exam, registration is required, with specific deadlines. A BCE Study Guide, sample case, and FAQs for the exam are included on the [ABO website](#) for reference.

ABO Practice Analysis

Board-certified orthodontists were recently invited to participate in the ABO's Practice Analysis Survey. This feedback is invaluable as we move forward with our oversight group, a panel of board-certified orthodontists, and ABO third-party psychometricians to conduct a Practice Analysis of all three ABO examinations.

Educational Update/Outreach:

- The ABO held the 2023 Educators Symposium, "Critical Case Analysis", on November 11, 2023, in St. Louis, MO. The symposium was well represented by educators from CODA-accredited orthodontic programs, including representatives from the AAO Trustees, CDABO Council, and ABO Emeriti. Dr. Peter Buschang, our honored speaker, shared his presentation, "Growth Related Questions that Future ABO Certified Orthodontists Should be Able to Answer," with the attendees. This taped video is also available on the [ABO website](#). Other topics addressed during the symposium included an examination overview, an update on the ABO

Pathway Program, and the status of the ABO Practice Analysis. A five-person educator panel discussed various questions regarding orthodontic school practices related to board certification, followed by a general discussion from the audience after each question.

- The ABO participated in the 2023 GORP meeting held in St. Louis, MO, and enjoyed meeting the residents in attendance. Dr. Timothy Trulove, ABO President, presented residents with his personal story on becoming an orthodontist. ABO staff were also available to answer questions on board certification.
- ABO directors attended the 2023 CDABO Summer Meeting in Coeur d'Alene, Idaho.
- Dr. Jae Park, ABO President-Elect, Michelle Valenti, ABO CFO, and Nicole Huson, ABO Certification Coordinator, attended the Dental Specialties Meeting in Chicago, IL. Attendees at this yearly meeting include National Boards for Dental Specialties recognized by the National Commission on Recognition of Dental Specialties and Certifying Boards.
- ABO directors attended their individual 2023 Annual Constituency Meetings. Tabletop displays showcasing board certification materials were available, with directors speaking on board certification when possible.
- The ABO distributed complimentary measuring gauges for incoming residents to CODA-accredited orthodontic programs.
- The ABO has replaced the former ABO Advocacy Program with the Ambassador Pathway Program, scheduled to be rolled out in 2024. This new program will consist of in-person (or virtual) presentations by ABO Ambassadors, as requested by orthodontic programs. It will focus on the pathway to board certification and the value it contains, both personally and professionally. Additional information, including how to schedule an Ambassador visit to orthodontic programs and how to serve as an ABO Ambassador, will be announced soon. Currently, Drs. Mark Guevarra and Don Heon Oh are ABO Ambassadors and will assist in training new Ambassadors once identified. Thank you to the University of Iowa and University of North Carolina who agreed to hold October 2023 pilot Ambassador presentations to residents at both schools.
- Please follow the ABO on Facebook and Instagram for the latest news and updates:
<https://www.facebook.com/americanboardoforthodontics>
<https://www.instagram.com/americanboardorthodontics>.
- A variety of materials to support board certified orthodontists are available via the ABO website to include:
 - Educational Toolkit materials (Brand Standard Guidelines, ABO Logo/Seal, [It Takes A Specialist](#) video/toolkit, suggested website wording, sample email signature and press release, board certification brochure and poster).

CONTINUED ON PAGE 31

- o ABO Store Front (Customizable consumer brochures and posters, patient handouts and team training tools, window clings, lapel pins and duplicate certificate with optional frame).

Tracking of personal CE credit hours along with the ability to print a complimentary verification letter are also available. Items can be accessed via personal online dashboard accounts located on the ABO website for board certified orthodontists. In addition, an Orthodontist Locator is available on the ABO website for the public to search for a board-certified orthodontist in their area.

Consider Serving as an ABO Director

- Due to an unscheduled vacancy in the director position, the ABO announces with pleasure [Dr. Onur Kadioglu](#)

of Oklahoma City, OK, has been appointed to serve as director of the American Board of Orthodontics as the representative of the Southwestern Society of Orthodontists. The appointment runs through the May 2024 American Association of Orthodontists (AAO) Annual Session, at which time Dr. Kadioglu will stand for approval by the House of Delegates for the full year term.

If you are a board-certified orthodontist and would like to consider serving as an American Board of Orthodontics director to help further the ABO's Mission of promoting excellence in orthodontics, we encourage you to review details regarding the qualifications and nomination process [HERE](#). Thank you! ■

AAO TechSelect: Navigating New Technologies in 2024

The orthodontic landscape is constantly changing, with new technologies and digital solutions emerging all the time. **TechSelect**, an exclusive program for AAO members, helps you navigate these innovations to evaluate what's best for your practice to enhance patient care and realize possible efficiencies.

Explore cutting-edge technologies:

- 3D Printing: Discover the criteria to evaluate printers and research products using side-by-side comparisons. Learn about setting up a 3D print lab, how to fabricate aligners and retainers in-house, the cost of making in-house aligners and the benefits your colleagues are experiencing through 3D printing.
- Intraoral Scanning: Find the best scanner for your practice, considering accuracy, speed, and user-friendliness.
- In-House Aligner Fabrication: Evaluate the feasibility and benefits of offering in-house aligners including a cost breakdown. Learn about the equipment, software and digital workflows you'll need and the number of cases it will take to pay back your investment.
- Remote Monitoring: Discover technologies on the market for remotely monitoring patient progress and improving compliance. Explore platforms with virtual check-ins, progress photos, and communication tools.
- Custom Bracket Systems: Consider the advantages your colleagues are experiencing with custom brackets for more precise tooth movement and the potential for less chair time per patient. Discover software and services for designing and manufacturing custom brackets.
- Digital Indirect Bonding: Explore the benefits of digital indirect bonding for faster, more accurate, and more consistent bracket placement. Learn about the costs of products on the market and the potential for improved efficiency.

Make informed decisions:

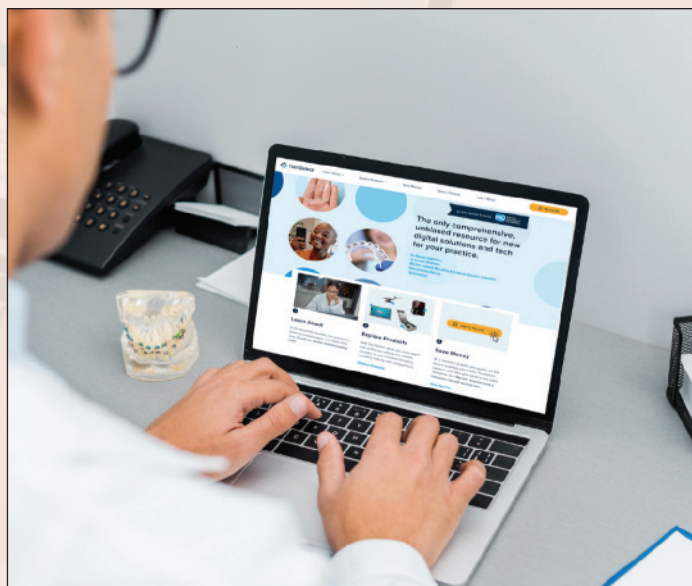
TechSelect provides a wealth of information to help you make informed decisions about technology for your practice. Access resources like videos, guides, investment payback calculators, and product comparisons.

Empower your practice:

TechSelect empowers you to navigate the ever-evolving world of orthodontic technology. By exploring the resources available, you can make informed decisions about implementing new solutions that can enhance your practice efficiency, reduce costs, and ultimately improve patient care.

Ready to embrace the future of orthodontics?

Visit **TechSelect** today and discover the latest technologies that can help you take your practice to new heights. ■



AAO Endorses PhytoLight®: New Weapon Against Plaque

Good news for orthodontists and their patients! The American Association of Orthodontists (AAO) has just endorsed PhytoLight®, a revolutionary system that tackles plaque and bacteria with a light-activated foam. AAO members can now offer their patients a powerful new tool to keep their smiles healthy and fresh and save money by taking advantage of discounted pricing for AAO members.

What is PhytoLight®?

PhytoLight® is a unique system that uses a safe, botanical-based foam that gets activated by light. This foam effectively kills harmful bacteria that traditional brushing and flossing might miss, even reaching difficult-to-clean areas around braces.

What makes PhytoLight® special?

- It targets the bad, leaving the good: Unlike traditional methods that can disrupt your natural oral ecosystem,

PhytoLight® focuses on eliminating harmful bacteria, preserving the healthy ones.

- Say goodbye to tartar buildup: This innovative system prevents calculus formation, keeping your teeth sparkling clean and healthy.
- Convenience is key: Just one minute of daily treatment at home is all it takes. Plus, the AAO negotiated a special price for members, making it even more accessible.

The AAO is committed to providing its members with the resources and information they need to provide the highest quality care to their patients. The endorsement of PhytoLight® is a testament to this commitment and reflects the AAO's belief in this innovative technology to improve patient oral health and focus on saving members money.

Want to learn more? Visit <https://www.phyto-light.com/aa-members>.





TREASURER'S REPORT

Dr. Lynette Garcia

CURRENT ASSETS AS OF DECEMBER 31, 2023

Savings/Cash	\$140,830.26
Reserve Account	642,922.33
Other Current Assets	19,119.77
TOTAL ASSETS	\$802,872.38

INCOME	Year-End 2023	2024 Budget
Dues-Active / Reinstatement	\$136,079.51	\$160,000.00
Newsletter Advertising	0.00	1,900.00
MEETINGS		
CE COURSE	37,285.00	37,105.00
NET ANNUAL CONVENTION	27,412.18	30,000.00
OTHER INCOME		
Prior Year Income	0.00	0.00
Interest Income	275.50	100.00
Dividends	16,553.12	8,000.00
Miscellaneous Income	1,000.00	0.00
TOTAL INCOME	218,605.31	237,105.00

EXPENSES	Year-End 2023	2024 Budget
OPERATING EXPENSES		
AAO Dues Billing Fee	2,604.25	2,900.00
President Honorarium	1,000.00	1,000.00
President Component Vists	0.00	1,500.00
AS Board Stipend (\$400 ea)	3,200.00	4,000.00
Management Fee	87,172.00	89,787.00
Office Supplies, Checks	1,323.12	1,400.00
Accounting	660.00	660.00
Subscripns-formstack/cons cont	1,076.95	1,100.00
Stationary & Envelopes	0.00	100.00
Copying	161.74	400.00
Postage/Mailing House	157.58	200.00
Telephone/Fax	853.37	1,200.00
AAO Liability Insurance	0.00	0.00
Office/File Storage	120.00	120.00
Journal Editor - Honorarium	1,000.00	1,000.00
AS Scholarships	57,600.00	31,200.00
Gifts and Awards	5,296.45	3,500.00
Website Development	42.99	600.00
Journal Publication/Mailing	13,593.73	6,000.00
BOD - Travel Del-Mar Caucus	3,528.96	3,500.00
BOD - Meals/Room/AV - Del Mar	6,665.16	6,500.00
BOD-AnnlSession Bus Mtg (Sep)	653.30	200.00
BOD- AS Bd Mtgs (Sep)	1,961.33	1,800.00
Strategic Planning Initiatives	333.15	2,000.00
Website-maint, network solutns	525.00	0.00
CE COURSE		
CE Course:	0.00	27,050.00
Audiovisual/Equipment	5,698.88	0.00
Meals/Breaks	21,968.52	0.00
CE - Postage/Mailing House	598.89	0.00
CE - Printing	1,069.02	0.00
Speaker Expense	2,990.64	0.00
Staff/Board Expense	1,084.08	0.00
CE Board Dinner	3,810.58	3,000.00
Hotel/Facility Rental	0.00	0.00
NATIONAL ANNUAL MEETING		
Leadership/Gov Affairs Conf/EL	0.00	0.00
AAO-Del(7) Alt (3)Room & Misc	10,316.77	12,500.00
AAO-Delegates And Alt Airfare	2,290.06	2,500.00
AAO-Exc Dir Attendance	2,361.51	2,300.00
AAOF Contribution	0.00	0.00
AAO Miscellaneous	0.00	0.00
Committee Expense	1,500.00	1,500.00
GORP Program	5,625.00	6,750.00
OTHER EXPENSES		
Credit Card Fee	1,505.66	1,200.00
Investment fees	1,257.47	1,500.00
Bank Service Charges	120.00	150.00
Prior Year Expense	0.00	0.00
Miscellaneous	28.80	100.00
Liability Insurance	1,142.00	1,200.00
Audit Expense	0.00	7,400.00
Tax Filing	1,430.00	1,200.00
TOTAL EXPENSES	254,326.96	229,017.00
NET OPERATING INCOME	(35,721.65)	8,088.00
Unrealized gain/loss	70,461.31	0.00
NET INCOME	\$34,739.66	8,088.00



NOMINATING COMMITTEE REPORT

Dr. Madeleine Goodman

Since 2016, **Dr. Steven Siegel** has honorably served MASO as an AAO Trustee. His hard work, long hours spent, and dedication to the MASO contingency, his fellow AAO colleagues, and orthodontics and organized medicine will pay off, as in 2026, he will become President of the AAO during the Annual Session in Orlando.

With Dr. Siegel moving on to serve the 19,000 members that make up the AAO, MASO will search for a new Trustee this year.

The Trustee election will occur at the Annual Membership/Business Meeting at the GLAO-MASO Annual Session in St. Thomas, Virgin Islands, from October 17 – 20, 2024. The Membership/Business Meeting is scheduled for Saturday, October 19. **Active members who would like to nominate themselves will be able to do so beginning March 1 through an online process. The nomination portal will be closed on June 1.** The term of office of a Trustee elected by MASO is two (2) years. The consecutive tenure of a Trustee elected by the constituent organization (MASO) shall be limited to eight (8) years.

MASO is fortunate to have many dedicated volunteer leaders within our constituent. We hope that some of you will consider running for the position of MASO Trustee to the Board of Trustees.

Following is a section from the AAO Standing Rules/Orders policy manual outlining the criteria to be an AAO Trustee:

1. That potential Trustees have a demonstrated ability and possess the following basic leadership skills:
 - a. The ability to lead and motivate volunteers; managing is secondary.
 - b. Eight to ten-year horizon in their thinking; should have strategic thinking skills.
 - c. Work within a team setting by looking to the future with a shared vision.
 - d. Ability to inspire and empower both volunteers and staff.
 - e. Build teamwork among peers with different needs and interests.
2. Ability to guide the Association in the future through a shared vision.
3. Understand the difference between “governing” and “managing”.
4. Ability to guide peers from micromanaging to leadership governance.

CONTINUED ON PAGE 34

5. Demonstrated leadership commitment through past or current involvement with orthodontic, dental, and other nonprofit entities, including local community organizations.
6. Relevant expertise in the disciplines of nonprofit management, including branding, fundraising, component/constituent relations, and international and organizational alliances.
7. Possesses sufficient technological expertise, including using social networks, file-sharing programs, email, text, video conferencing, and other electronic communication tools.
8. Supports routine performance feedback by fellow board members and reports of performance to the constituent organization.
9. Understands that the time commitment required includes the following but is not limited to:
 - a. Three meetings per year in St. Louis (two nights, three days in August, November and February)
 - b. One (1) Board Planning Session held in the summer (three nights, four days)
 - c. Nine (9) days at the AAO Annual Session
 - d. Attendance at the ADA Annual Session (Executive Committee), AAO Winter Conference, Advocacy Conference, and Leadership Conference
 - e. Evening and/or daytime conference calls as required.
 - f. Subcommittee work using electronic communication tools.
 - g. Attendance at constituent ad interim and fall meetings.
10. Ensure that the views and interests of each party are honestly and accurately communicated between parties.
11. Advocate for the values, intents, interests, and actions of the AAO. ■



GOVERNMENT AFFAIRS COMMITTEE REPORT

Dr. Padma Mukherjee

The Council on Government Affairs (COGA) wishes all are MASO members A Very Happy New Year! The MASO Governmental Affairs committee is composed of six (6) members, one from each component society. At each Annual Session, two (2) members are elected for a term of three (3) years. The current Government Affairs Committee members are:

Dr. Padma Mukherjee (Chair)
Dr. Elise Tigani Endres
Dr. Daneil Diaz Rubavo
Dr. Jennifer Morrison
Dr. Andrew Pedersen
Dr. Dr. Briana McRae

Nathan Mick continues as the Director of Advocacy for the AAO and will be supported by the all the constituencies of

the AAO including MASO. AAO advocacy works on behalf of its AAO members and for the future of the profession. The role of COGA is both at the Federal and State level and the MASO Government Affairs committee works on the constituent level.

With the recent news about Smile Direct going out of business, AAO has been working hard to provide guidelines to patients which has always been AAO's top priority. On December 12, AAO President Dr. Myron Guymon and Vice President and General Counsel Trey Lawrence met with reporters to provide key consumer information. AAO advocacy efforts continues to emphasize education of lawmakers and regulators at state and federal levels about orthodontic patient health and safety, including the importance of an in-person exam in order to begin treatment. Critical issues that COGA will bring to the attention of Congress include Student Loan reforms, DTC concerns, The RAISE ACT, Workforce staff shortage and many more.

MASO members with local advocacy concerns should contact the MASO Government Affairs committee at maso@assnoffices.com. ■

MASO Strategic Plan Report

The MASO Strategic Plan is under review. The board will evaluate the current plan at the Board of Directors meeting in March and develop a framework for the 2025-2029 plan in June. A strategic planning workshop will take place at the 2024 MASO Annual Session in October during which the board will finalize the plan. ■



Delaware State Dental Society **Dr. Mark R. Fiss**

The Delaware State Dental Society held its annual meeting in October, where we welcome the three newest members of the society: Dr. Aesha Chaudhry, Dr. Melissa Eckley and Dr. Lisa Honig. The past year

has also seen two member of the society who recently retired: Dr. Ray Rafetto and Dr. John Nista, whose devotion to the specialty and commitment to the society will be missed. The current board members, Dr. Brienne Flagg, Dr. Rob Penna and Dr. Mark Fiss have decided that our main area of focus will be on better communication amongst our members and we look forward to seeing our fellow MASO members at the 2024 Spring CE Event at the Hotel duPont. ■



District of Columbia Society of Orthodontists **Dr. Jean Edouard Asmar**

The DC component was very well represented at our MASO annual session meeting at the National Harbor, Maryland. Our luncheon was great as usual, and it was wonderful to catch up with so many friends and colleagues. ■

Dr. Jean Asmar at the MASO Annual Session meeting at National Harbor with our fearless leader and president. Dr. Omid Rajaei.



Maryland Society of Orthodontists **Dr. Chris Scott**

The Maryland State Society of Orthodontists (MSSO) had two virtual seminars in Spring 2023. The first featured Dr. Ashley Hoders, a dual-trained periodontics/ prosthodontics clinician, with her incredible lecture entitled “Phenotype Driven Treatment Planning.” The second was given by Dr. Michelle Neal, who talked about pre-surgical orthodontic treatment using aligners.

The current board members are President Chris Scott; Vice President Monica Schneider; Secretary-Treasurer, Moshe Stern; Director Natalie Miller. We also have a newly appointed administrative team consisting of Abby Bernhardt and Hanna Gauss.

Updating our website, increasing our communication amongst members, and developing an online job opportunity posting has been our main focus this year, aside from hosting seminars.

A fall 2023 seminar is in the works for October and will be a very informative lecture for all members! ■



New Jersey Association of Orthodontists **Dr. Michael Perillo**

Greetings from the Garden State! Since our last update, we have completed our first in-person CE event on November 17 at the Hasbrouck Heights Hilton with Dr. David

Walt speaking on ‘Digitizing Your Aligner Workflow.’ The event was offered in person and via live-streaming to our members. Dr. Walt provided an informative lecture and was very well received. His lecture was a great start to our CE cycle!

Dr. Sal Carcara, our Continuing Education Chair, and the executive board continue to bring the best and brightest

CONTINUED ON PAGE 36

speakers to our great state! We have asked our members for input for this upcoming cycle before finalizing our lecture schedule. We sent an online survey to meet the needs of our members better. As a result of the survey, the regular in-person Winter CE event was changed to three separate, shorter evening online CE events to better meet the needs of our constituents especially our younger members who present with a greater challenge to attend all-day, in-person events.

The first two events were held on January 24 and February 15. The remaining event will be 2 hours in length from 7-9 PM. Our last presenter will be Dr. Jesse Feuerstein on March 15, 2024.

Our final cycle meeting will be an in-person event with a streaming option, as was provided for the November meeting.

It will feature Drs. Bart Iwashiyuk and Debbie Kherdoo at the APA Hotel Woodbridge on April 19, 2024.

One of our newest executive board members, Dr. Khushali Shah will represent the NJAO at the upcoming AAO Leadership Conference in January 2024. The conference begins the day before the AAO Winter Conference in San Antonio, TX. We are looking forward to her insight and input after attending the AAO Leadership Conference providing the executive board with great new ways to reach out to our New Jersey members.

We will keep you updated with our upcoming continuing education schedule and topics as well as any exciting, new changes to our organization. See you at the shore! ■



Pennsylvania Association of Orthodontists

Dr. Jacob Orozco

In an effort to raise awareness about the Pennsylvania Association of Orthodontists (PAO) and the benefits of membership and involvement in organized dentistry, Board members, Drs. Marian Wolford, Brittney Franklin, and Sarah LaRue, hosted a Happy

Hour this past fall at the MASO/GLAO meeting in Washington, D.C. There was a good turnout and more than a few drinks and laughs were shared among colleagues.

The PAO is busy planning a Spring CE meeting in Pittsburgh. Spearheaded by President-elect Dr. Marian Wolford, the

meeting will be held at the Pittsburgh Wyndham April 12 and 13, 2024. More details to follow, but the CE event will be Friday, and a PAO Board meeting taking place on Saturday.

Several of the planned informational lunch and learns at the Pennsylvania residency programs have taken place, with Marian and Brittney visiting the Pitt residents, and Dr. Doug Smith meeting with the residents at Seton Hill. If there are any alumni from Temple or Penn willing to meet with the residents to share your experience, please reach out. We welcome your thoughts and ideas.

I look forward to seeing everyone this Spring at the MASO CE meeting in Wilmington, DE. ■



Puerto Rico Society of Orthodontists

Dr. Bruni Ortiz-Giuliani

The “Sociedad de Especialistas en Ortodoncia de Puerto Rico” (SEOPR) has had an eventful year with multiple events and CE courses. We had a course sponsored by Align Tech titled “Digital Workflow and Invisalign Utilization for All Your Patients” by Dr. Bart Iwaszyk from Toronto, Canada. He reviewed the features of aligner therapy and presented complex cases treated with aligners. The attendance was excellent; almost all our members and the University of Puerto Rico orthodontic residents participated.

Last August, our clinical staff had a continuing education course sponsored by our Society. During the morning, orthodontic residents lectured on making our practices more efficient, reinforced knowledge on adequate record-taking, and presented an update on the latest technology. In the afternoon, a keynote motivational speaker, Gabriel Morales, presented a dynamic and interactive conference about resilience and teamwork.

Everyone enjoyed the conference, and the feedback was incredibly positive!

In October, our CE course was titled: “Reimagining Antiquated Biomechanical Principles to Bring Clarity to Your Aligner Cases” by Dr. Shane Langley and sponsored by 3M. The course showed conventional and aligner therapy cases treated by this amazing clinician. During this event, we had our Annual Assembly, which acknowledged our successes and discussed further plans.

Sadly, I want to share the news that three of our members passed away recently. Dr. Rafael Báez, past president of our Society, graduated from Georgetown University Medical Center and was practicing in Caguas. Dr. Edna Galarza, educated at Columbia University, had practice in Mayagüez and rested in peace after a battle with cancer. Dr. Carlos E. Justiniano studied at Columbia University and had a practice in Mayagüez as well. His leadership brought him to be past president of College of Dental Surgeons of Puerto Rico and ex-director of the Lions Club International.

We are proud of the great family that has always characterized our Society and we look forward to a year full of camaraderie and growth. ■



**ALBERT EINSTEIN
MEDICAL CENTER**
Dr. Vanessa Morenzi

Resident Activities

Our rising second-year residents, Drs. Jessica Azer, Alison Novakovic, and Seung (Hannah) Yu enthusiastically welcomed those who entered our program on June 26, 2023. They are:

- **Dr. Ana Maria Gonzalez** completed an AEGD at Texas A&M and practiced in Texas before moving to Philadelphia.
- **Dr. Alexander Stanco** completed an AEGD at the Winslow Indian Health Care Center through NYU Langone Hospitals and practiced dentistry in Arizona before returning to the East Coast.
- **Dr. Nicoletta Venturini** completed a GPR at NY-Presbyterian Brooklyn Methodist Hospital and was practicing in Florida before relocating to join her classmates at Einstein Ortho.

We extend our gratitude to the members of the Selection Committee – **Drs. Alan Borislow, Peter Greco, Kathleen Pale, Michael Roth, Adam Weiss**, and the residents, for graciously serving on the selection committee. We also sincerely thank each of our **volunteer and part-time faculty** for their invaluable support and dedication to the program and to the education of our residents. Without the valued commitment of the part-time faculty, it would be almost impossible to provide a quality educational experience. We are indebted to each of our community-based clinicians who give of their time to teach and mentor our residents.

As a 3rd year resident, **Dr. Mordechai (Mordy) Fried**, presented his research at the Albert Einstein Medical Center's Research Recognition Week in May 2023 alongside the other medical disciplines within the hospital. His research was entitled "Pediatric Sleep Disordered Breathing and Non-Nutritive Sucking Habits". Dr. Fried also presented his research to the Dental Department as part of Fogel Grand Rounds in June 2023. In February 2023, Dr. Fried submitted a clinical case report to the Albert Einstein Medical Center Case Report Competition that spanned many disciplines and departments within the hospital.

As a 3rd year resident, **Dr. Justin Middleberg** presented his research in poster form as part of the Albert Einstein Medical Center's Research Recognition Week in May 2023. Dr. Middleberg was also selected as a peer reviewer for this research competition. His research was titled "Investigation of Temporary Anchorage Device Use and its Predisposition to Failures" in the Albert Einstein Medical Center patient population. The information gathered by Dr. Middleberg was also used as a Division-wide outcomes assessment of TAD use within our Department. (While there's always room for improvement, the

results were much better than anticipated.) Dr. Middleberg also presented his research to the Dental Department as part of Fogel Grand Rounds in June 2023. In February 2023, Dr. Middleberg submitted a clinical case report to the Albert Einstein Medical Center Case Report Competition that involved the participation of multiple dental specialties and disciplines.

Dr. Madeline Pitz submitted her "Early Orthodontic Intervention for Maxillary Left Central Incisor Impaction" case report as part of the Albert Einstein Medical Center Case Report Competition in February 2023. Her submitted case treatment involved multiple dental specialties and disciplines. Dr. Pitz's research project was titled "A Comparison of Digitally Calculated Bolton Analyses using Invisalign, uLabs, and OrthoCad." She presented her research in poster form as part of the Albert Einstein Medical Center's Research Recognition Week in May 2023. Dr. Pitz also presented her research to the Dental Department to celebrate The Maxwell S. and Anna K. Fogel Memorial Conference on Dental Medicine in June 2023.

The Class of 2025, **Drs. Azer, Novakovic**, and **Yu** were happy to participate in the Tweed Foundation Course in Tucson, Arizona, in April 2023. Based on their feedback to program leadership, this experience was very beneficial. They gain a tremendous boost in confidence because of their greatly enhanced ability to manipulate archwires. These reinforced wire-manipulation skills will be clinically relevant as these residents assumed the transfer of patient care from their graduated partners.

Program Graduate Activities

For our most recent graduating class of 2023, **Dr. Mordy Fried** has entered private practice in northern and central New Jersey. **Dr. Justin Middleberg** has joined a private practice in Philadelphia. **Dr. Madeline Pitz** has entered private practice in Brooklyn, NY. Due to their many teaching and mentoring talents, Drs. Fried, Middleberg and Pitz have each been invited to join the teaching staff at Einstein Medical Center in the Division of Orthodontics. The Class of 2023 is grateful to their faculty and teachers for their unending and generous efforts in preparing them to enter the orthodontic profession.

Faculty Activities

We wish to offer our heartfelt thanks and heartiest congratulations to our decades-long faculty member, Dr. Ross (Rusty) Long, Jr., on his recent retirement from teaching. Our program, our residents, and our graduates, shall miss his dedication, insight, humor, and humility in guiding them through the processes of research, clinical care, cleft and craniofacial growth and development, orthognathic surgery, and navigation into our wonderful profession. We wish Rusty all the best for many years to come.

All are welcome to come and visit us at Albert Einstein Medical Center. We are proud of our legacy and the residents we educate today who will become tomorrow's clinical and professional leaders. ■

GRADUATE PROGRAM REPORTS



MEDSTAR WASHINGTON HOSPITAL CENTER Dr. Linda Hallman

The Medstar Washington Hospital Center Orthodontic Department is pleased to submit a departmental update. Thank you for the opportunity. We have had another exciting and successful year at WHC.

Our Chief Residents, Drs. Logan Cash and Carlos Galvez are completing their clinical requirements and research and preparing for their professional careers after residency. We welcomed our incoming class of residents in June 2023. Dr. Madison Moore graduated from Southern Illinois University Dental School, where she received the Dean's Student Research Fellowship Award. Dr. Hannah Rothback received her dental degree from the University of Maryland. In addition to receiving multiple academic accolades through dental school, she is an accomplished violinist and holds a Black Belt in Tae Kwon Do. We were very excited to welcome both outstanding individuals to join our staff. Already, they have both exceeded

our expectations as residents and up-and-coming orthodontists. We continue to be blessed with outstanding residents, who are assets for the profession's future.

We have said goodbye to two leaders in our group. Dr George Obeid has retired as Chief of Oral and Maxillofacial Surgery at MedStar Washington Hospital Center, of which we are a Division. He served as Chief for 40 years. He will be missed by our Department and many in the dental community. Dr Ravi Agarwal has assumed the position and now serves as the Chair of our Department. We are excited to have him at the helm and continue growing under his leadership. We also have said goodbye to Dr Erik Scheifele, Chair of Pediatric Dentistry at Children's National Hospital, where he served for 11 years. He has assumed a new leadership position in Miami, FL. We wish him well and will miss him as he was an integral part of our educational Program.

As always, as we look back on the past year, we appreciate how fortunate we are at MWHC to work together with excellent and committed faculty, outstanding residents, and a strong commitment from our institution, MedStar Washington Hospital Center, as well as Children's National Hospital and the National Orofacial Institute. ■



RUTGERS SCHOOL OF DENTAL MEDICINE Dr. Thomas Cangialosi

I am pleased to announce that we had an excellent match of five new residents for our next class. They are Dr. Athena Fu from Rutgers School of Dental Medicine, Dr. Hyori Kim from Boston University, Dr. Rumyana Lazarova from Columbia University, Dr. Kellie Lee from UCLA, and Dr. Ashley Tran from the University of Texas Health Science Center in San Antonio. We are pleased to welcome them for our next session to begin on July 1, 2024.

Our second-year residents are busy with expanding patient care and preparation for the ABO written Exam in April. The third-year residents are busy getting ready to graduate and begin practice. They are working hard to finish their research theses and taking the final clinical and didactic exams they need to pass to graduate.

As far as technology goes, we have been assigned space adjacent to our clinic to place three new 3D printers, which will allow us to construct various appliances in-house and support several ongoing research projects.

We want to add a half-time clinical faculty member sometime this next semester so that we can increase and expand our resident's clinical experience. ■



TEMPLE UNIVERSITY Dr. Jeffrey H. Godel

Happy New Year's wishing everyone a healthy and happy 2024 from Temple University Kornberg School of Dentistry Department of Orthodontics. We are very excited about our astounding achievements during these last few months. The **Class of 2023** held their graduation at the Legacy Club at Woodcrest this past August. The graduates have all successfully spread their wings and left the nest.

We look forward to seeing their contributions to the orthodontic profession and their communities. They were **Daniel Chenman, James Henderson, Michael Kirshblum, John Nuveen, Carolyn Serio, and Caroline Terry.**

Meanwhile, the **Class of 2024** is eagerly working to complete their MS degree and their patients in anticipation of their graduation in August 2024. These young professionals are looking forward to their future as orthodontists and to carry on our wonderful profession. They are **Katie Alexander,**

CONTINUED ON PAGE 39

GRADUATE PROGRAM REPORTS

Corey Moletsky, Nina Golojuch, Jenna Herr, Amanda Noyek, and Daniel Seebold.

We welcomed the **Class of 2025** in July, and they have started their journey into the exciting world of orthodontics. They are **Rayane Farah** from St. Joseph University (Lebanon), **Jessica Ho** from Pittsburg University, **Hyangseong “Sophie” Jo** from Columbia University, **Daniel Markel** and **Jordyn Middleberg** from Temple University, and **Matthew Wittstein** from the University of Connecticut. They look forward to attending and meeting all MASO members at the upcoming meetings and are enthusiastically preparing for the TWEED course this spring in Arizona.

In addition, our residency program was overwhelmed with applications this year. We invited 45 candidates for an interview and matched six wonderful and diverse residents: **Colton Brown, Paige Hodges, Elizabeth Noel, Marielisa Otero, Anwar Radwan, and Eamon Whelan.** We are

incredibly thrilled and looking forward to the arrival of the **Class of 2026** in July 2024.

In addition, we continue with our focus on innovation and technology. We take special pride in our clinical solid focus and advanced technology. Our residents are excited and looking forward to continued engagement in digital orthodontics.

We are also all very proud of **Dr. Richard Albright** for receiving the Lifetime Achievement Award from MASO.

Finally, our Department would like to express our appreciation to the outstanding group of adjunct faculty and alumni. Their continued enthusiasm and dedication to participate in the education of our residents and the success of our program is remarkable.

We hope to see everyone at the 2024 MASO Spring Meeting in Delaware and the AAO Annual Meeting in New Orleans. ■

UNIVERSITY OF MARYLAND

Dr. Jose Bosio



Greetings from the University of Maryland School of Dentistry (UMSOD) Orthodontic Division

I want to thank everyone who supported our program in 2023. We had great achievements that I am delighted to share with you.

From the residents' side, our 1st-year students (**Elisabeth Crowe, Jessica Jiang, Justin Mack, and Iman Shirmohammadi**) started strong and enjoyed the basic science and clinical courses during the summer. Their typodont course was reformulated with many new wire bending exercises. Thus far, they have been assigned nearly 50 new patients each, and the list of assignments is growing. They had the opportunity to attend the GORP meeting in Ann Arbor and the MASO meeting at the National Harbor this year, and the travel expenses were supported by our division.

Our 2nd-year students (**Alicia Briscoe, Christina Grace, Tri Le, Steven Zinn**) started working on their master thesis research projects, while managing the heavy load of transferred patients. Most of the residents are now working on completing their IRB and/or starting to collect the data for their thesis and studying for the ABO written examination in April 2024.

All 3rd-year residents (**Kevin Barnes, Lindsay Diaz, Vicente Telles da Silva, Emily Wu**) are working on finishing their master thesis research. They all passed their ABO written examination with good grades. Kevin will attend the 2024 AAO Winter meeting and the AAO New and Young members meeting in San Antonio, TX, while Lindsay will attend the Advocacy meeting in Washington, DC next February 24, representing MASO.

In October, we held our orthodontic interview process, having as interviewers **Drs. Fred Preis, Saul Burk, Flavio Copello, Lindsay Diaz, and Kevin Barnes**, all residents, and myself. And we are happy to report that our 2027 graduating class will be: **Anjali Patel** (UMSOD/24), **Rebecca Steinfeld** (Columbia/23), **Shannan J. Walker** (UofColorado/19), and **Tori A. Wallace** (UMSOD/24).

Our full-time faculty were also busy. **Dina Sanches** managed the undergraduate program as the director, with significant positive changes. **Flavio Copello** continues directing the undergraduate course ORTH538 and co-directs the Biomechanics course. He also created an Aligner course for dental students, which is under revision, published two papers, and submitted two new grants, one to AAOF and another to Colgate. **Maria Doughan** received a grant from AAOF to attend the Academy of Academic Leadership Training at ADEA. She also co-directs the Biomechanics course and the Clerks program and created a new course to evaluate patients being treated for longer than expected. **Eung Pae** has submitted one NIH grant and continues lecturing in a few orthodontic courses. While I was also busy chairing the AAO-COSA, and I was honored by being elected to serve as MASO director for the next six years.

Our part-time faculty also made us very proud. **Steven Siegel** continues serving as AAO Secretary-Treasurer and works on many fronts. **Saul Burk** continued to push the endowment fund he created in honor of Dr. Wanda Flinn, now matching up to \$10,000 with any donation given to the fund. **David Harmon** completed his MASO presidential term and presided over the MASO meeting at the National Harbor. His soft tissue lecture was one of the best of the meeting. **Viney Saini** became an ABO examiner, and **Ty Saini** continues to serve as chair of the MASO Nominating Committee and as AAO delegate, working behind the scenes along with **Chris Liang** to bring together MSDA and MSSO to fight for better conditions for orthodontists.

CONTINUED ON PAGE 40

GRADUATE PROGRAM REPORTS

Scott Jenkins continues serving as the North Atlantic Angle Society of Orthodontists vice-president. We lost two part-time faculty members, Drs. Gordon Groisser (focusing on his private practice) and Farnaz Younessian (who moved to CA). However, **Drs. Erin Mahoney** and **Richard Chang** joined our team as Clinical Instructors. **Drs. Byron Bonebreak, Monica**

Schneider, Jeff Jarvis, Steven Tigani, and Stuart Sheer continue supporting our program with their clinical supervision. **Phil Markin, Fred Preis, Jeff Posnick, and James Tong** continue lecturing to our students. THANK YOU ALL.

We wish everyone a very good year in 2024. ■



UNIVERSITY OF PENNSYLVANIA
Dr. Chun-Hsi Chung

Faculty and Resident Awards:

- Dr. O'Hern Pilot Grant Recipient – **Dr. Wenjing Yu**
The Role of Mesenchymal Stem Cell and Immune Cells during Rapid Maxillary Expansion
- NIH NIDCR Grant Recipient – **Dr. Chenshuang Li**
Small Animal Model for Evaluating the Impacts of Cleft Lip Repairing Scar on Craniofacial Growth and Development
- Recipient of ABO 2024 Albert H. Ketcham Memorial Award – **Dr. Peter Greco**
- Dr. Jerome H. Sklaroff Award recipient – **Dr. Madelaine Li**
- Dr. Vanarsdall Scholarship recipient – **Dr. Victoria Hu**
- Dr. Rouff Scholarship recipient – **Dr. Jin Xu**

Our comprehensive clinic and didactic Orientation Program began on July 10, 2023 as we welcomed our new incoming class of 2025.

26 Month Certificate Program

- **Jamie Guberman**, Penn 2023
- **Sarah Horne**, Rutgers, 2023
- **Jessica Kang**, Penn 2023
- **Lucy Kim**, Penn 2023
- **Binglan Xue**, Penn 2023

3-year MSOB/Ortho Program

- **In-Wong Chang**, UCLA 2023
- **Leandra Garcia Jorge**, University of Puerto Rico, 2021

5-year DScD/Ortho Program

- **Fahad Almutairi**, King Saud University, Saudi Arabia 2018

Perio/Ortho Program

- **Anas Baghareeb**, Riyadh Elm University 2020

This year our residents participated in the GORP Conference St. Louis, MO July 20 – 23, 2023.

On August 25, the 2023 graduation ceremony for our 26-month postdoctoral certificate program, took place at the Kimmel Center.

Orthodontic 26-Month Certificate Program

Nicolette Almer, DMD
John Davies, DMD
Herta Granado, DMD
Grace Nguyen, DMD
Jamie Silverberg, DMD

Dr. Jia-Hong Lin completed the three-year combined Orthodontic Certificate/MSOB program in June 2023.

Our 70th J. Henry O'Hern annual Orthodontic Alumni Day 2023 Ortho Alumni Meeting was held in-person, Friday October 27, 2023 at Penn Dental Medicine.

- Speaker: **Dr. Barry Glaser**
- Lecture Title: *Clear Aligners Treatment*

The Penn Dental Postdoctoral Orthodontic Class 2026 has been selected, and we are looking forward to welcoming our new residents this summer.

26 Month Certificate Program

- **Azizat Adediran** - Meharry Medical College 2024
- **Sapna Nath** – Harvard University 2024
- **Elizabeth Scagnelli** – University of Tennessee, 2024
- **Anqi (Gloria) Wan** – Penn 2024
- **Nikki Wei** – Penn 2024

3-year MSOB/Ortho Program

- **Min Jung Kim** – Peking University, 2018
- **Mohammad Mohammad** – Creighton University, 2021

5-year DScD/Ortho Program

- **Hala Allawama** – University of Jordan, 2021

Perio/Ortho Program (Non-Match)

- **Madawi Alhabib** – King Abdul Aziz University (first year will be in Perio)

The Penn Ortho Department will continue with a series of virtual CE sessions. For more information and to register for these sessions please visit our Penn Department of Continuing Education <https://www.dental.upenn.edu/continuing-education/>

- February 5, 2024 – Dr. Steven Dugoni “Diagnosis and Treatment of Orthodontic Problems in Mixed Dentition” (tentative)
- April 1, 2024 – Dr. Yanheng Zhou “Clear Aligner Treatment” (tentative)
- June 3, 2024 – to be decided.

Warm wishes for a Happy and Healthy New Year, and as always, we would be honored to have you visit with us at UPENN! ■

GRADUATE PROGRAM REPORTS



UNIVERSITY OF PUERTO RICO

Dr. Jose Morales-Diaz

Greetings from Puerto Rico. We are very proud of our achievements during this last semester. During the summer of 2023, our first-year residents, **Dr. Samuel Ramos** and **María Rodríguez**, traveled to Tucson, Arizona, to attend The Tweed Foundation Course. Last November, **Nicolle Reyes** and **Nikaury Guzman**, senior residents, went to the Advanced Clear Aligner Residency Education in North Carolina. Last August, our second and third-year residents lectured on: "Diagnostic Records, Bonding Materials and Dental Scanning" to our local society (SEO-PR), assistant personnel, and staff. On October 18, our program had the privilege to present at

the School of Dental Medicine Grand Rounds. **Drs. Nikaury Guzman, Nicolle Reyes, María Rodríguez, Samuel Ramos, Clarimar Soto, and Osmell Gonzalez** lectured on the following subject: "Etiology, Diagnoses, and Treatment of Eruption Disturbances." Congrats to all of them for an outstanding presentation.

Finally, I am pleased to announce that the following dentists have been admitted to our program for the next class, which begins on July 1, 2024: **Dr. Valeria Rivera** from the University of Puerto Rico and **Dr. José Soto** from Marquette University. Drs. Ramos and Rodríguez will soon present their thesis paper, "Incisor Movement in Patients with Mild to Moderate AP Skeletal Discrepancies Treated with Pressure Side Decortication Procedures and Bone Grafting Compared to Conventional Orthodontic Treatment". ■

UPCOMING EVENTS



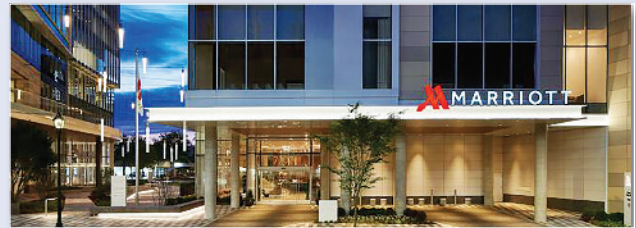
MAY 3-7, 2024
AAO Annual Session
NEW ORLEANS, LA



OCTOBER 17-20, 2024
GLAO-MASO Annual Session
ST. THOMAS, USVI



JANUARY 24-26, 2025
AAO Winter Conference
Marco Island, FL



MARCH 7, 2025
MASO Spring CE
Bethesda, MD



APRIL 25-28, 2025
AAO Annual Session
PHILADELPHIA, PA



SEPTEMBER 25-27, 2025
MASO Annual Session
WASHINGTON, DC

Dr. Normand Boucher, Editor

Ms. Jane Treiber, MASO Executive Director
400 W. Wilson Bridge Rd, Ste 120
Worthington, OH 43085



Constituent
American
Association of
Orthodontists®

My Life. My Smile. My Orthodontist.®

Join the Middle Atlantic Society of Orthodontists on



To contribute material to MASO's Facebook page, please contact MASO at maso@assnoffices.com.