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MASO Journal

Spring 2023

Middle Atlantic Society of Orthodontists



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2023 GLAO/MASO Annual Session

September 21-23, 2023

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MEETING REGISTRATION

Meeting registration will open in May 2023.

For more information, visit www.GLAO.org and www.MASO.org.

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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 nsjboucher[at]gmail.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.

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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.



PRESIDENT'S MESSAGE

Dr. David Harmon • drharmon[at]harmanorthodontics.com

While I am honored to serve as president of the Middle Atlantic Society of Orthodontists (MASO), it's important to note that I could not execute my duties effectively without the unwavering support of the MASO Board of Directors

and our Executive Director, **Jane Treiber**, who masterfully manages the day-to-day operations of this organization. As a mission-driven organization, I believe that providing high-quality, content-rich continuing education events for our membership is an important goal for MASO.

We will continue to utilize the MASO Mission Statement as our "North Star". Promoting ethical and quality orthodontic care while advocating and providing an effective voice for our members, components and educational institutions remain paramount objectives; as is continued strong support for orthodontic residents.

In my leadership capacity with MASO I will continue working with the AAO's Special Committee for Inclusion and Engagement. MASO is a diverse organization. We recognize the benefits of engaging the rainbow of colors, genders and cultures that make up MASO; and how cultural awareness can benefit doctor-patient and doctor-staff relationships. As MASO members we treat our colleagues with respect and compassion and strive to nurture and develop the next generation of volunteer leaders.

As your organization, we can accomplish all of our goals with your support and participation in key events throughout the year.

Be sure to mark your calendars for our joint Annual Session with GLAO at the Gaylord Hotel in National Harbor, Maryland, on September 22-23, 2023. I had the pleasure of doing my residency alongside GLAO president, GLAO-MASO Joint Meeting Co-chair and great friend Juan Martin Palomo at Case Western Reserve University. We will have lots of great content for all to enjoy! ■



TRUSTEE'S REPORT

Dr. Steven Siegel • ssiegel[at]aao.org

In recent articles, I have written about AAO advocacy, the Consumer Awareness Campaign, and services and programs available to AAO members. In this article,

I will discuss the accreditation of orthodontic residency programs and the many ways the AAO supports orthodontic education, our residents, and educators.

There are currently sixty-seven accredited programs in orthodontics and dentofacial orthopedics in the United States. In 2021-2022, there were 408 residents entering their first year and 386 residents completing their programs. There are a total of 1,111 orthodontic residents in the US. 56 % of all orthodontic residents are female. 59% of orthodontic residents are White. Only 4.7% are Black or African American and 7.1% Latino or Hispanic, both underrepresented groups; 23% of all orthodontic residents are Asian.

The Commission on Dental Accreditation (CODA), was established in 1975 and is nationally recognized by the United States Department of Education (USDE) as the sole agency to accredit dental and dental-related education programs conducted at the post-secondary level. Although a Commission of the ADA, CODA functions independently and autonomously in matters of developing and approving accreditation standards, making accreditation decisions on educational programs, and developing and approving procedures that are used in the accreditation process. It is structured to include an appropriate representation of the communities of interest.

CODA does not take into consideration workplace needs, access to care issues, or the number of accredited programs

and residents when granting accreditation, it only determines whether a program meets and maintains its established accreditation standards.

The mission of the Commission on Dental Accreditation is to serve the public and dental professions by developing and implementing accreditation standards that promote and monitor the continuous quality and improvement of dental education programs.

Members of the Commission on Dental Accreditation are selected in accordance with the Rules of the Commission on Dental Accreditation, the Constitution and Bylaws, and the Governance and Organizational Manual of the American Dental Association. Dr. Brent Larson is the AAO representative on CODA's Board of Commissioners and Dr. Glenn Sameshima, who is presently a Commissioner trainee, will assume a place on the Board of Commissioners upon the completion of Dr. Larson's term this year.

How Accreditation Works

The Commission on Dental Accreditation employs a collaborative peer review accreditation process to evaluate the quality of over 1,400 dental and dental-related education programs nationwide, including dental, advanced dental and allied dental programs.

The accreditation process begins when a sponsoring institution submits an application to CODA. The institution then completes a comprehensive self-analysis and self-study report detailing its resources, curriculum, policies, and operational standards.

The next step is an on-site review conducted by CODA team members selected for their expertise in the program area. They conduct interviews with administrators, instructors, staff, and

CONTINUED ON PAGE 3

students to verify information in the self-study and ensure that the program meets minimum accreditation standards.

CODA team members then write a detailed site visit report based on their findings and share it with both the sponsoring institution and CODA officials. CODA meets twice a year (usually in January/February and July/August) to review site visit reports and other program reports and make accreditation decisions.

All accredited programs receive a follow-up site review every seven years, except for advanced dental education programs in oral and maxillofacial surgery, which are reviewed every five years.

The purpose of the site visit evaluation is to obtain in-depth information concerning all administrative and educational aspects of the program. In addition, the site visit permits a team of Commission-appointed peers to assess a program's compliance with the Accreditation Standards and with its own stated goals and objectives.

The site visit verifies and supplements the information contained in the comprehensive self-study document completed by the institution. Information provided in the self-study is confirmed, documentation is reviewed, interviews are conducted, and the program is observed by the visiting committee. Information related to the site visit is viewed as confidential.

In 2018, I chaired a CODA Review Committee composed of eight educators from the AAO Council on Education (COE), the Society of Educators, and the American Board of Orthodontics (ABO). Based on the committee's recommendations, the AAO advocated for changes to the Accreditation Standards for Advanced Dental Education Programs in Orthodontics and Dentofacial Orthopedics to ensure that our accredited programs continue to provide the best educational experience to our residents. Many of the changes advanced by the AAO were accepted by CODA after an arduous vetting process and were implemented as of July 2022. These changes include, for the first-time, quantitative faculty requirements for programs and clinic coverage. STANDARD 2 - PROGRAM DIRECTOR AND TEACHING STAFF now states the "The program must ensure a minimum of one (1) full time equivalent (FTE) faculty to four (4) students/residents for the entire program, including clinical, didactic, administration, and research components". Additionally, "For clinic coverage, the program must ensure no less than one (1) faculty to eight (8) students/residents to assure the number and time commitment of faculty is sufficient to provide full supervision of the clinical portion of the program". Another change appears in STANDARD 3 - FACILITIES AND RESOURCES and now stipulates that, "For each clinic session to which a student/resident is assigned, the program must provide a minimum of one (1) clinic chair per student/resident".

A new required competency in STANDARD 4 - CURRICULUM AND PROGRAM DURATION requires "A graduate of an advanced dental education program in orthodontics must be competent to: Identify patients with sleep-related breathing disorders/sleep apnea".

Addition requirements now include that residents be competent to treat and effectively manage malocclusions that require four (4) quadrants of bicuspid extractions or of comparable space closure; treat and effectively manage Class II malocclusions, defined as a bilateral end-on or greater Class II molar or a unilateral full cusp Class II molar, through a non-surgical treatment approach.

The accreditation standards now state, as recommended by the AAO, that ABO Board standards are one way that a program may document treatment outcomes.

The COE, which studies all things related to orthodontic education, continues to evaluate the accreditation standards, and recently formed two subcommittees. A CODA Education Subcommittee is reviewing the Predoctoral Accreditation Standards to determine if there should be recommendations to update the standards related to orthodontic education. The subcommittee will also continue to evaluate post-doctoral training and required competencies in the Accreditation Standards for Advanced Dental Education Programs in Orthodontics and Dentofacial Orthopedics, as well as the site visitor training and the calibration process.

The Evidence Based Advocacy Subcommittee provides scientific resources and evidence to AAO Legal and Advocacy and consumer awareness efforts. Protecting the health and well-being of orthodontic patients is of paramount importance to the American Association of Orthodontists. The AAO is concerned about common practices and policies in the direct-to-consumer (DTC) orthodontic field. These concerns are based on reliable, peer-reviewed scientific evidence, unlike information from some who advocate for DTC companies. The AAO provides resources to support laws and regulations that best protect patients and may be found at orthofacts.org.

The AAOF

The AAO Foundation, the charitable arm of the American Association of Orthodontists, provides support to orthodontic education programs and orthodontic research.

AAOF invests in the futures of orthodontic residents through the Fred A. Garrett Resident Education Program, which made its return in 2022. Over seven hundred Residents checked in at the AAOF booth and received an incentive check to help them cover some expenses from attending the AAO Annual Session in Miami Beach.

The AAOF has provided \$15 million of funding since 1994 through 271 Fellowship Awards and 322 Research Awards, which resulted in over one hundred published articles and abstracts.

The AAOF Craniofacial Growth Legacy Collection Project joins together nine of the eleven known collections of longitudinal craniofacial growth records in the United States and Canada. The purpose is to make representative materials from the participating collections available for viewing and further investigation by clinicians, craniofacial investigators, students of human growth, and interested members of the public.

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Dr. Orhan Tuncay, who served as MASO's representative on the AAOF Board of Directors including two years as president of the Board, reported that in 2021 the AAOF Awards Program granted over \$750,000 to worthy applicants to support their projects. Also, a new Orthodontic Faculty Development Fellowship Award (OFDFA) was established and named in honor of Dr. James Vaden in 2021. **Dr. Tuncay** noted that over the years, many scientists will benefit from it to advance the science and technology of orthodontics.

Years ago I recognized the importance of the work of the AAOF in supporting our faculty, residents, and orthodontic research, and pledged at the Regent level. I would encourage each of you to invest in the future of our profession though your financial support of the AAOF.

AAO Programs and Support of Faculty and Residents

The American Association of Orthodontists directly supports orthodontic education and faculty in many ways, including the granting of Full Time Faculty fellowships, the Craniofacial Anomalies and Special Care Training Award Program, and the Chairs and Academic Administrators Management Program (CAAMP) Fellowships, and sponsoring junior faculty to participate in the Institute for Teaching and Learning (ITL) Program. The AAO awards over \$240,000 in academic fellowships each year to faculty pursuing a career in orthodontic education. This investment has been extremely successful in helping with the critical issue of orthodontic faculty retention and development.

Residents receive complimentary CE Passport access when they join the AAO. This Passport unlocks the AAO live webinar series and grants members unlimited access to over five hundred hours of evidence-based practice management, clinical, financial, and career transition content. Included is the Business of Orthodontics series. Three presentations of value to residents are available to each accredited program which may be given in person or virtually, at no cost.

1. The **Resident Vitals Presentation** emphasizes AAO member resources and services which are vital to residents during their orthodontic training and beyond. Residents learn how to maximize the effectiveness of their AAO membership by utilizing the wide array of benefits available to them. Moreover, they learn about the association's support of new graduates as they transition to practice and how that support continues throughout their careers. I have given this presentation on several occasions. It is highly informative and the AAO provides lunch to the residents in attendance.
2. The Financial Management for Residents Program is designed for orthodontic residents as they consider their financial futures and orthodontic careers. The presentation introduces concepts to help residents make sound financial decisions in practice and life, which many AAO members report they do not receive during or prior to their orthodontic training.

3. The **Resident Legal Course** is presented by licensed attorneys who work for the AAO. The course covers a multitude of topics such as managing difficult patients, dealing with divorced parents and how to respond to a negative online review. Trey Lawrence, AAO VP, General Counsel, Legal & Advocacy, recently gave the presentation to the University of Maryland, Howard University, and the MedStar Health-Washington Hospital orthodontic residents. I was in attendance and can attest to the value of this program.

The AAO has partnered with practice transition experts and industry leaders to provide resources to help residents and new and young members evaluate career paths, practice modalities and transition options.

A wealth of information may be found on the AAO member site, Practice Transition Portal on practice sales or startups, partnerships, associateships, and orthodontic and dental support organizations (OSO's/DSOs). The site also has a link to the AAO Career Center, where practice opportunities are listed.

The AAO also provides financial support to the Graduate Orthodontic Residents Program, (GORP). This annual program provides an opportunity for residents to learn and network with each other as well as with industry partners and AAO leaders.

The American Dental Educators Association (ADEA)

The AAO financially supports the Orthodontic Section to the American Dental Educators Association (ADEA). I was honored to represent the Board of Trustees at the 2022 ADEA meeting in Philadelphia. Dr. Edmund Khoo, the Orthodontic Section ADEA Councilor, noted in his report that the section enjoys strong professional association support and participation from many academic members in the profession. The section regularly contributes educational programs, posters, and abstracts to the annual session, develops newsletters, and forges strong ties and funding from our professional organization, the American Association of Orthodontists. ADEA and AAO support a Student Travel Award for two residents interested in going into a teaching career to attend the Annual ADEA Session, as well as poster and oral presentation opportunities for students and Student Research Awards. These awards serve to recognize the efforts of students and residents whose research projects were accepted to be presented at the ADEA Annual Conference. These awards would have not been possible without the continued support and generosity of the AAO, and the AAO Council on Education.

Although by no means a complete list, I hope you appreciate the myriad of ways that the AAO and AAOF support our residents, faculty, accredited orthodontic programs, research, and accreditation standards. Your support of the AAO through your membership helps ensure that our profession remains strong now and in the future.

As always, I consider it an honor and privilege to serve as your Trustee and welcome you to contact me should you have any questions, concerns, or suggestions. ■



EDITORIAL

Dr. Normand Boucher

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Digital Orthodontics

The AAO Winter meeting reinforced the reality that the contemporary orthodontic office will have to be designed for digital dentistry. The basic needs will include a 3D imaging system, a digital scanner, and a printer. The hardware will be supported by robust software and the skill set of a digital doctor and all employees. With the steady movement towards printed laboratory appliances and in-house clear aligner fabrication, employing a digital laboratory technician will make sense for many orthodontic offices. In the near future all brackets will be fully customized and will likely be produced by in-house printers.

Diagnostic records will routinely include digital diagnostic wax-ups and digital smile design. Smile design software and 3D facial photography, taken with a state of art cell phone, will address the planning of buccal corridors, management of the gummy smile, ensuring a consonant smile arc, and establishment of the ideal zenith of anterior gingival margins. The orthodontist will discuss options regarding shapes and sizes of teeth in the esthetic zone in a manner similar to highly competent esthetic restorative dentists.

Digitally based diagnosis, treatment planning, and treatment will impact how we schedule orthodontic patients. We will develop effective methods to schedule and competently execute telemedicine appointments.

The ratio of doctor hours with direct patient contact versus doctor computer time will slowly shift toward more time that the doctor spends on a computer. Most practices will hire an IT service to manage hardware and software. Office design will ultimately reflect the importance of digital systems and may result in reduced office space. The digital orthodontist will face a workday that is less physically demanding and the work life of an orthodontist will be longer if the orthodontist chooses to do so.

For the sake of our profession, I hope that the sweet spot for an orthodontist is to combine “old school” practice management policies with the digital tools at our disposal. I still want to take detailed diagnostic records and put aside quiet time to review the findings and create a treatment plan that will be presented at a follow up appointment. I still favor a small, well controlled practice, that provides me with an adequate income to support my family and eventually provide financial independence. This approach can differentiate my practice from most practices that are part of DSO’s. My wish is to eventually transition my practice to a like-minded young orthodontist that will appreciate this huge investment I have made to put these amazing digital technologies to work for my patients. ■

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.

MASO FEATURED ARTIST

Dr. Grace Nguyen is the first featured artist for the *Journal*. Examples of her work can be found throughout the following pages. ■





Dr. Anil Ardeschna
ardeshap[at]sdm.rutgers.edu

Norm: Thank you for agreeing to share your life experiences with us today and I am going to reiterate that the goal with this interview is not to run through your CV but to explore your life story. So let's begin with where you were born.

Dr. Ardeschna: Well, most people are surprised to learn that I was not born in India but in Uganda which is part of East Africa and at the time was part of the British Empire.

Norm: Were your parents also born in Uganda?

Dr. Ardeschna: No. My parents were born into prosperous farming families in India. They were wealthy landowners. My parents decided to immigrate to Uganda when they were 18-19 years of age and thus were pioneers in that country. My parents had seven children and I was second to last. Since the secondary school system in Uganda was less than ideal, my older siblings all went abroad for their secondary school education.

Norm: What did you parents do in Uganda?

Dr. Ardeschna: My parents owned a bookstore and were publishers. This is where my love of books came from. I was proud that I was the only person in our village that read all of the books in my parent's bookstore.

Norm: Why did you leave Africa?

Dr. Ardeschna: Around 1970-71, President Idi Amin, began a campaign of terror to expel all people of non-native African ethnicities out of Uganda. Many people were killed and seriously injured. Foreign nationalists were subjected to a period of terror and within 1-2 months most business people and professionals left the country as refugees.

Norm: How old were you at the time?

Dr. Ardeschna: I was 13 years old. My older siblings were already out of the country. My parents, myself, and my younger sibling had to leave suddenly as refugees without any of our possessions. There were actually soldiers, thugs, at the airport that confiscated our luggage as we were deported. Everything we had was left behind since there was no rule of law. My family story is one of "riches to rags".

Norm: Were you in the refugee camp for a long period?

Dr. Ardeschna: Actually, it was a brief period since we were taken in to live with a group of Catholic priests in Coventry (known for the story of Godiva). The priests were incredibly kind and generous... my mom quickly ruled the house. She

kept it clean, did all the cooking, and in short order the priests began to appreciate Indian food.

Norm: What was school like in England?

Dr. Ardeschna: Well, I was actually pretty smart so when I took the National Examination. I scored the second highest score in the country and won a scholarship to go on to an all-boys secondary school.

Norm: Did you like that experience?

Dr. Ardeschna: It was not a good experience from several perspectives. I found the cultural change very difficult and since I was naturally shy and introverted, it was not easy fitting in. I also quickly realized that all the other boys were very smart and even smarter than me. Despite this, I was successful academically.

Norm: How did the rest of your family deal with the relocation?

Dr. Ardeschna: Sadly, my father never recovered from the trauma of the expulsion from Uganda. He was a successful businessman in a large bookstore and couldn't replicate what was left behind. He gave up and never worked again. Following our stay with the priests, we were on welfare. Home was a "council home", a highly subsidized home, which was very basic with no heating. My mom was the strong head of the family at that point. My older siblings all immigrated to America to go forward with their lives.

Norm: How did you end up in dental school?

Dr. Ardeschna: I was accepted to dental school at the University of Wales in Cardiff. In England dental school began right out of secondary school and consisted of a four-year program.

Norm: Did you like dental school?

Dr. Ardeschna: Dental school was a great experience. My favorite professor was an prostodontist who took me under his wing. He was always smiling and an inspiration for my entire experience as a dental student.

Norm: How did you finance your dental education?

Dr. Ardeschna: Truthfully, in spite of the British history of colonialism, I really appreciate what the British did for me. My entire education was free including the cost of my accommodation in a dormitory. I frequently think of the merits of the British system when I hear of the education loans that our residents incur for their professional education in this country.

Norm: What did you do after dental school?

Dr. Ardeschna: I attended an oral surgery program in Birmingham for two and a half years. This program was based in a hospital. The hierarchy hospital system consisted of starting as a House Officer, then a Senior House Officer, then

CONTINUED ON PAGE 7

TELL ME YOUR STORY

a Registrar, then Senior Registrar, and finally a consultant. I reached the Senior House Officer and took the Royal College of Surgeons examination which was by far the most difficult examination I have even taken. Fortunately, I passed and to this day I consider it one of my greatest accomplishments.

Norm: How and when did you end up in the USA?

Dr. Ardeshta: By then I was 23 years old and my siblings were all in the U.S. I decided it would be best if we were all on the same continent. As soon as I arrived in America, I knew I had to be a U.S trained dentist.

Norm: What was your next step?

Dr. Ardeshta: I interviewed for dental school at the University of Connecticut. They saw that I did quite well in dental school in England and had great credentials, so they admitted me as a third year dental student. Fortunately, tuition was only 10K at a time, my siblings were all working, and they elected to take care of my tuition. At Connecticut I came to the conclusion that no education goes wasted. I paid my dues to become a good professional.

Norm: Were you married at the time? Children?

Dr. Ardeshta: I married right after dental school and have two boys that I am very proud of. Raj, my oldest is a director of a pharmaceutical business development program and is doing extremely well. Dev, his younger brother is finishing dental school and was recently accepted in the orthodontic program at the University of Southern California.

Norm: What do you like about teaching and your career in academia?

Dr. Ardeshta: There are two things. The first is the interaction and exchange that I have with the residents. I make them think on their feet. The second is my course on biomaterials and biomechanics. Overall, I feel that as an educator I am a missionary for the orthodontic profession and am privileged to contribute to our specialty. ■



Top-left to right: Anil at 2 years old. He is sitting in the center; Anil as a 1989 3rd year student & Dr. Burstone at Connecticut; Anil BDS 1981 at the University of Wales.

Bottom-left to right: Anil's high school hockey team in 1975 England; Anil's BDS graduating class in 1981 at the University of Wales.

WHAT I'M WATCHING



Dr. Francis W. Short
AKA...Whitefish

Fauda has just released its fourth season on Netflix and it is as captivating and intense as ever. *Fauda* is the story of an Israeli anti-terrorist group working as spies in the Israeli occupied territories of Palestine.

Lior Raz, who stars in and co-created the series, is the real deal having worked in a similar Israeli anti-terrorist unit. This creates what feels like a very authentic viewpoint. However, the main reason I find *Fauda* so compelling is that it appeals to both Palestinian and Jewish people. Hopefully this leads to a better understanding on both sides. The first episode of the first season had me somewhat confused as it is hard to tell who represents which side of the conflict. This blurred line perhaps is what makes for such an intriguing story. After the first episode things become quite clear.

Please watch and enjoy. ■

RECENT MASO RESEARCH

2023 KRESS AWARD

The 2023 **Kress Award** will be granted to the most outstanding Research Thesis by a graduate resident within MASO's geographical area: The Award will be presented during the MASO Annual Session, September 21-23, 2023 at the Gaylord National Resort, National Harbor, Maryland. The recipient will receive a \$1,000 check, an award plaque, complimentary registration to the 2023 Annual Session, overnight accommodations, and a 30-day advance coach airfare reimbursement (if residing outside the MASO region).

To qualify, residents are required to submit an application and thesis (plus the publication manuscript in PDF format if published and/or accepted); no photos are to be included of the person submitting the application. The award-winning thesis may be published in the MASO journal. Please use the [online form](#) to electronically submit your materials.

To qualify for consideration for the Kress Award, residents are required to submit:

1. ONE electronic copy of their Research Thesis or Research Project (in PDF format),
2. If this research project has been published, or has been accepted for publication, ONE electronic copy of that manuscript (in PDF format) should also be submitted,
3. No photos are to be included of the person submitting the application.

Please note that the submissions are forwarded to the selection committee completely anonymized of any identifiers of name, gender, race, residency program, or prior publication of the research project.

The award-winning thesis, or research manuscript, may be published in the MASO journal. If the award-winning thesis, or research manuscript, has already been published elsewhere, if authorization by the journal in which the research was/will be published is given, it may also be published in the *MASO Journal*.

Submissions must be received in the MASO office by March 31, 2023 for consideration for the 2023 Award. A decision will be made by May 31, 2023. Previous year graduates may submit

their work for the following year Kress Award (Example: 2022 graduates may enter for the 2023 Award).

GORP SCHOLARSHIP – DEADLINE AUGUST 31

A \$125 **GORP Scholarship** is available for each orthodontic resident attending the 2023 GORP conference, provided it is an in-person meeting. If your residents participate in this program, please scan their names after the conference (on school letterhead) and send to MASO@AssnOffices.com, and individual checks will be mailed directly to the school in care of your office. Requests must be received in the MASO office by August 31, 2023.

MASO ANNUAL SESSION – \$600 ROBERT L. VANARSDALL RESIDENT SCHOLARSHIP AWARDS PROVIDED TO RESIDENTS/POST GRADUATE CHAIRS/FULL-TIME FACULTY

MASO is pleased to announce that it will again give a \$600 Robert L. Vanarsdall Jr. scholarship to cover registration and travel expenses to either the post-graduate chair or program director of a MASO area university, plus one full-time faculty, all of whom must be AAO members and attend MASO's 2023 Annual Session, September 21-23, 2023 at the Gaylord National Resprt, National Harbor, Maryland. In addition, MASO will provide a \$600 scholarship to each MASO resident who is an AAO member from the MASO region. These recipients must attend MASO's 2023 Member/Business Meeting, sign the registration form outside the meeting room, and attend all scientific sessions. Ortho chairs or directors and full-time faculty must participate in the scheduled Educators Meeting and Member/Business Meeting (sign-in) to receive the reimbursement. Checks will be issued following the Annual Session. \$42,500 has been budgeted in 2023 for these scholarships.

All residents must be a Student Member of the AAO, and chairs/faculty must be members of the AAO. We confirm membership with the AAO and if a resident, chair/faculty is not a CURRENT AAO member he/she is not eligible for the scholarship. You may join online at <https://www.aaoinfo.org/join>.

If there are any questions, please feel free to contact the MASO office at maso@assnoffices.com or call 877-748-6276. ■

MASO Research in 2022

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

Smart Flexible 3D Sensor for Monitoring Orthodontics Forces: Prototype Design and Proof of Principle Experiment
Soobum Lee, Chabum Lee, Jose A Bosio, Mary Anne S Melo
Bioengineering (Basel)
<https://pubmed.ncbi.nlm.nih.gov/36290538/>

Generational perspectives of orthodontists in the U.S. and Canada: A survey study
Syed Rassal Hussain, Shuying S Jiang, Jose A Bosio
Am J Orthod Dentofacial Orthop
<https://pubmed.ncbi.nlm.nih.gov/36055883/>

Validation of Muscle Fiber Architecture of the Human Tongue Revealed by Diffusion Magnetic Resonance Imaging With Histology Verification
Xiao Liang, Nahla M H Elsaid, Li Jiang, Steve Roys, Adam C Puche, Rao P Gullapalli, Maureen Stone, Jerry L Prince, Jiachen Zhuo
J Speech Lang Hear Res
<https://pubmed.ncbi.nlm.nih.gov/36054846/>

A surgeon's perspective on the uncorrected skeletal deformity. Part I: Unintended consequences on facial structures and esthetic harmony
Saul M Burk, Karina Charipova, Susan Orra, Patrick W Harbour, Mark D Mishu, Stephen B Baker
Am J Orthod Dentofacial Orthop
<https://pubmed.ncbi.nlm.nih.gov/35317950/>

A surgeon's perspective on the uncorrected skeletal deformity. Part II: The role of esthetic surgery for orthognathic camouflage
Saul M Burk, Karina Charipova, Susan Orra, Patrick W Harbour, Mark D Mishu, Stephen B Baker
Am J Orthod Dentofacial Orthop
<https://pubmed.ncbi.nlm.nih.gov/35249773/>

Recovery After Inferior Alveolar Nerve Injury Associated With Sagittal Split Osteotomy: Importance of Patient Resilience
Leonard B Kaban, Jeffrey C Posnick
J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/35143777/>

The teachable moment and mentoring
Leonard B Kaban, Jeffrey C Posnick
Br J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34998609/>

The Future of Artificial Intelligence in the Medical Field
Jeffrey C Posnick
J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34922901/>

Enhanced Cleft Lip and Palate Team Care
Jeffrey C Posnick
J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34856160/>

Use of transcortical miniscrews for alveolar ridge preservation following tooth extraction: A pilot study
Surya Joseph, Se-Lim Oh, Eung-Kwon Pae, Shashank Joshi
Clin Oral Implants Res
<https://pubmed.ncbi.nlm.nih.gov/34741321/>

Deadlines Can Improve Surgical Care
Jeffrey C Posnick

J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34626554/>

The PGO concept: Prosthetically guided orthodontics concept
Alvaro Blasi, Ignacio Blasi, Victor Henarejos-Domingo, Vincenzo Castellano, Jose Ignacio Blasi, Gonzalo Blasi
J Esthet Restor Dent
<https://pubmed.ncbi.nlm.nih.gov/34612577/>

Is Your "BS" Detector Getting Rusty?
Jeffrey C Posnick
J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34480852/>

Cognitive Bias Hazards After an Operative Complication
Leonard B Kaban, Jeffrey C Posnick
J Oral Maxillofac Surg
<https://pubmed.ncbi.nlm.nih.gov/34245698/>

Rutgers School of Dental Medicine

An In Vivo Study on the Development of Bacterial Microbiome on Clear Orthodontic Retainer
Kabilan Velliyagounder, Anil Ardeschna, Serena Shah
Dent J (Basel)
<https://pubmed.ncbi.nlm.nih.gov/36547055/>

Gelatin Methacrylate Hydrogel for Tissue Engineering Applications-A Review on Material Modifications
Sasinar Bupphathong, Carlos Quiroz, Wei Huang, Pei-Feng Chung, Hsuan-Ya Tao, Chih-Hsin Lin
Pharmaceuticals (Basel)
<https://pubmed.ncbi.nlm.nih.gov/35215284/>

University of Pennsylvania School of Dental Medicine

Role of surgical hyoid bone repositioning in modifying upper airway collapsibility
Corine J Samaha, Hiba J Tannous, Diane Salman, Joseph G Ghafari, Jason Amatoury
Front Physiol
<https://pubmed.ncbi.nlm.nih.gov/36582357/>

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/>

Antibacterial and Physical Properties of PVM/MA Copolymer-Incorporated Polymethyl Methacrylate as a Novel Antimicrobial Acrylic Resin Material
Christopher Lai, Ashten Nguyen, Lynna Ye, Jessica Hao, Hyun Koo, Francis Mante, Fusun Ozer
Molecules
<https://pubmed.ncbi.nlm.nih.gov/36557980/>

Maxillary Sinus Dimensions in Skeletal Class I Chinese Population with Different Vertical Skeletal Patterns: A Cone-Beam Computed Tomography Study
Jingyi Wang, Min Zou, Abby Syverson, Zhong Zheng, Chenshuang Li
Diagnostics (Basel)
<https://pubmed.ncbi.nlm.nih.gov/36553151/>

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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

Zhong Zheng, Herta S Granado, Chenshuang Li

J Dent Res

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

Dietary sugars modulate bacterial-fungal interactions in saliva and inter-kingdom biofilm formation on apatitic surface

Thais de Cássia Negrini, Zhi Ren, Yilan Miao, Dongyeop Kim, Áurea Simon-Soro, Yuan Liu, Hyun Koo, Rodrigo Alex Arthur

Front Cell Infect Microbiol

<https://pubmed.ncbi.nlm.nih.gov/36439211/>

Buccolingual Inclination of Second Molars in Untreated Adolescents and Adults with Near Normal Occlusion: A CBCT Study

Chenshuang Li, Boryana Dimitrova, Normand S Boucher, Chun-Hsi Chung

J Clin Med

<https://pubmed.ncbi.nlm.nih.gov/36431105/>

Lip Bumper Therapy Does Not Influence the Sagittal Mandibular Incisor Position in a Retrospective CBCT Study

Olivia Griswold, Chenshuang Li, Justin C Orr, Normand S Boucher, Shalin R Shah, Chun-Hsi Chung

J Clin Med

<https://pubmed.ncbi.nlm.nih.gov/36294352/>

The functional oral microbiome: Biofilm environment, polymicrobial interactions, and community dynamics

Jens Kreth, Hyun Koo, Patricia I Diaz

Mol Oral Microbiol

<https://pubmed.ncbi.nlm.nih.gov/36169983/>

Antagonistic interactions by a high H₂O₂-producing commensal streptococcus modulate caries development by Streptococcus mutans

Dongyeop Kim, Tatsuro Ito, Anderson Hara, Yong Li, Jens Kreth, Hyun Koo

Mol Oral Microbiol

<https://pubmed.ncbi.nlm.nih.gov/36156446/>

Asymmetric Maxillary Expansion Introduced by Surgically Assisted Rapid Palatal Expansion: A Systematic Review

Jia-Hong Lin, Chenshuang Li, Hilary Wong, Sylvain Chamberland, Anh D Le, Chun-Hsi Chung

J Oral Maxillofac Surg

<https://pubmed.ncbi.nlm.nih.gov/36113583/>

The Effect of IFT80 Deficiency in Osteocytes on Orthodontic Loading-Induced and Physiologic Bone Remodeling: In Vivo Study

Hyeran Helen Jeon, Jessica Kang, Jiahui Madelaine Li, Douglas Kim, Gongsheng Yuan, Nicolette Almer, Min Liu, Shuying Yang

Life (Basel)

<https://pubmed.ncbi.nlm.nih.gov/36013326/>

Trans-Cinnamaldehyde Eluting Porous Silicon Microparticles Mitigate Cariogenic Biofilms

Afreen Jailani, Shanthini Kalimuthu, Vidhyashree Rajasekar, Sumanta Ghosh, Pierre-Yves Collart-Dutilleul, Naveen Fatima, Hyun Koo, Adline Princy Solomon, Frederic Cuisinier, Prasanna Neelakantan

Pharmaceutics

<https://pubmed.ncbi.nlm.nih.gov/35890323/>

Farnesol delivery via polymeric nanoparticle carriers inhibits cariogenic cross-kingdom biofilms and prevents enamel demineralization

Tatsuro Ito, Kenneth R Sims Jr, Yuan Liu, Zhenting Xiang, Rodrigo A Arthur, Anderson T Hara, Hyun Koo, Danielle S W Benoit, Marlise I Klein

Mol Oral Microbiol

<https://pubmed.ncbi.nlm.nih.gov/35859523/>

Impact of Frontier Development of Alveolar Bone Grafting on Orthodontic Tooth Movement

Yilan Miao, Yu-Cheng Chang, Nipul Tanna, Nicolette Almer, Chun-Hsi Chung, Min Zou, Zhong Zheng, Chenshuang Li

Front Bioeng Biotechnol

<https://pubmed.ncbi.nlm.nih.gov/35845390/>

Oral health status in a Lebanese geriatric population

Sandra E Andari, Lilian A Ghandour, Monique Chaaya, Joseph G Ghafari

East Mediterr Health J

<https://pubmed.ncbi.nlm.nih.gov/35815874/>

Surface Topography-Adaptive Robotic Superstructures for Biofilm Removal and Pathogen Detection on Human Teeth

Min Jun Oh, Alaa Babeer, Yuan Liu, Zhi Ren, Jingyu Wu, David A Issadore, Kathleen J Stebe, Daeyeon Lee, Edward Steager, Hyun Koo

ACS Nano

<https://pubmed.ncbi.nlm.nih.gov/35764312/>

Very early orthodontic treatment: when, why and how?

Ute E M Schneider-Moser, Lorenz Moser

Dental Press J Orthod

<https://pubmed.ncbi.nlm.nih.gov/35703618/>

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/>

En-Mass Retraction of Maxillary Anterior Teeth with Severe Proclination and Root Resorption-A Case Report

Chenshuang Li, Wenlu Jiang, Shih-Chin Chen, Krisena Borenstein, Nipul Tanna, Chun-Hsi Chung, Won Moon

Diagnostics (Basel)

<https://pubmed.ncbi.nlm.nih.gov/35626211/>

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/>

Microrobotics for Precision Biofilm Diagnostics and Treatment

A Babeer, M J Oh, Z Ren, Y Liu, F Marques, A Poly, B Karabucak, E Steager, H Koo

J Dent Res

<https://pubmed.ncbi.nlm.nih.gov/35450484/>

Transverse Analysis of Maxilla and Mandible in Adults with Normal Occlusion: A Cone Beam Computed Tomography Study

Kyung Jin Lee, Hyeran Helen Jeon, Normand Boucher, Chun-Hsi Chung

J Imaging

<https://pubmed.ncbi.nlm.nih.gov/35448227/>

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Maxillary sinus dimensions in skeletal class II population with different vertical skeletal patterns

Abby Syverson, Chenshuang Li, Zhong Zheng, Evgenii Proskurnin, Chun-Hsi Chung, Min Zou

Clin Oral Investig

<https://pubmed.ncbi.nlm.nih.gov/35359186/>

mTOR Signaling in the Regulation of CD4+ T Cell Subsets in Periodontal Diseases

Qian Jiang, Xiaobin Huang, Wenjing Yu, Ranran Huang, Xuefeng Zhao, Chider Chen

Front Immunol

<https://pubmed.ncbi.nlm.nih.gov/35222410/>

Polymicrobial Aggregates in Human Saliva Build the Oral Biofilm

Aurea Simon-Soro, Zhi Ren, Bastiaan P Krom, Michel A Hoogenkamp, Pedro J Cabello-Yeves, Scott G Daniel, Kyle Bittinger, Inmaculada Tomas, Hyun Koo, Alex Mira

mBio

<https://pubmed.ncbi.nlm.nih.gov/35189700/>

Activation of Functional Somatic Stem Cells Promotes Endogenous Tissue Regeneration

W Li, X Huang, W Yu, Y Xu, R Huang, J Park, A Moshaverinia, P Arora, C Chen

J Dent Res

<https://pubmed.ncbi.nlm.nih.gov/35114850/>

Small Leucine-Rich Proteoglycans in Tendon Wound Healing

Xue Xu, Pin Ha, Emily Yen, Chenshuang Li, Zhong Zheng

Adv Wound Care (New Rochelle)

<https://pubmed.ncbi.nlm.nih.gov/34978952/>

RANKL inhibition halts lesion progression and promotes bone remineralization in mice with fibrous dysplasia

Zhongyu Liu, Yijia Yin, Zheng Wang, Liang Xie, Peng Deng, Donghui Wang, Ning Ji, Hang Zhao, Xianglong Han, Qianming Chen, Chun-Hsi Chung, Ding Bai, Xuefeng Zhao

Bone

<https://pubmed.ncbi.nlm.nih.gov/34952228/>

Postoperative Changes in the Upper Airway Following Mandibular Distraction Osteogenesis in Pediatric Hemifacial Microsomia

Carlos Barrero, Giap Vu, Mychajlo Kosyk, Laura Humphries, Hyeran Helen Jeon, Normand Boucher, Jesse Taylor, Hyun-Duck Nah

J Craniofac Surg

<https://pubmed.ncbi.nlm.nih.gov/34723918/>

The effect of Brazilian propolis type-3 against oral microbiota and volatile sulfur compounds in subjects with morning breath malodor

Marcelo de Faveri, Giselle Cancine Pupio, Hyun Koo, Bruno Bueno-Silva, Kelson Marinho de Oliveira, Luciene Cristina Figueiredo, Pedro Luiz Rosalen, Roberto Masayuki Hayacibara, Mitsue Fujimaki

Clin Oral Investig

<https://pubmed.ncbi.nlm.nih.gov/34392403/>

Relationship between mandibular symphysis dimensions and skeletal pattern in adults

H Y A Marghalani, G Guan, P Hyun, S Tabbaa, A I Linjawi, T Al-Jewair

Folia Morphol (Warsz)

<https://pubmed.ncbi.nlm.nih.gov/33954960/>

Kornberg School of Dentistry, Temple University

Prevalence of white spot lesions and risk factors associated with the COVID-19 pandemic

John M Burnheimer, Carolyn G Serio, Brenda H Loo, Lily A Hartsock

J World Fed Orthod

<https://pubmed.ncbi.nlm.nih.gov/35624003/>

University of Puerto Rico

Botulinum Toxin and Smile Design

Mario Polo

Dent Clin North Am

<https://pubmed.ncbi.nlm.nih.gov/35738736/>

CTOR Academy

Dynamic loading stimulates mandibular condyle remodeling

Cristina C Teixeira, Fanar Abdullah, Mona Alikhani, Sarah Alansari, Chinapa Sangsuwon, Serafim Oliveira, Jeanne M Nervina, Mani Alikhani

J World Fed Orthod

<https://pubmed.ncbi.nlm.nih.gov/36153283/> ■

Artwork by **Dr. Grace Nguyen**, MASO's featured artist.



MASO-NESO Joint Annual Session Recap

September 22 – 24, 2022
Philadelphia Marriott Hotel

“Better Together – Transforming the Way We Learn”

The 2022 Joint Annual Session with MASO and NESO was an intense two days of education and networking. Over the two days, 28 speakers covered a gamut of topics from motivational, digital workflow, in-house custom aligners, team building, financial management, innovative surgical procedures, and more.

The keynote speaker line-up was impressive – Mr. Dino Watt, Dr. Anil Idiculla, Dr. Ankur Gupta, and psychologist Dr. Andrea Bonior. The clinical speakers were outstanding – Dr. Lisa Alvetro, Dr. Shahid Aziz and Dr. Padma Mukherjee, Mr. Carl Chua, Dr. Paula Coates, Dr. Sylvia Frazier-Bowers, and Dr. Bryan Lockhart. The practice building and financial management speakers were top notch, well-known industry speakers – Dr. Matthew Bidwell, Mr. Scott Caldwell and Ms. Tracy Martin, Mr. Zane Harris, Dr. Jeannie Moody, Ms. Diana Weaver, and Mr. Brian Wright. Our resident speaker, Dr. Jeremy Dock, University of Maryland, presented a case study of residents using an in-house aligner program.

There was time for fun at the Annual Session. The Welcome Happy Hour Reception on Thursday and the Resident Reception

on Friday, the Taste of Philly Reception with Exhibitors, the Ben Franklin 5K Fun Run around the Philadelphia Museum of Art, and the joint President's Reception in the newly renovated Gallery on the hotel lobby level.

The Annual Business meeting was held Saturday and the election of new officers and directors took place. Congratulations to **Dr. Maddy Goodman** for a productive Annual Session and year of programming, and welcome **Dr. Dave Harmon** as new president for 2023. The presentation of awards to **Dr. Lawrence Wang**, winner of the Gerard A. Devlin Award, and former University of Philadelphia resident **Dr. Leanne Lin**, winner of the William S. Kress Award for Resident Excellence, were highlights of the business meeting, in addition to the unveiling of the new MASO logo.

In all, 850 attendees experienced a warm welcome in the City of Brotherly Love, and a successful MASO-NESO Joint Annual Session was a preview of the AAO Annual Session to take place in Philadelphia in 2025. The meeting would not have been possible without the generous support of our Industry sponsors and exhibitors.

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MEETINGS



2023 Spring CE Program Scheduled for Baltimore

The Spring CE Program will be held Friday, March 3 at the Baltimore Marriott Waterfront in Baltimore, Maryland. Six hours of CE credit are available to those who attend the full, in-person meeting. Three well-known speakers fill four program slots – **Drs. Neal Kravitz, Jose Bosio, and Grant Coleman.**

• **7:30 AM – 8:30 AM**

Registration/Continental Breakfast

• **8:30 AM – 10:30 AM**

Dr. Neal Kravitz on “Surgical Pearls”

Surgical orthodontic cases can be our most stressful, in part, because they are the least frequent. This fun and fast-past clinical presentation will review patients with three types of surgical needs: orthognathic surgery, mandibular second molar deimpaction surgery, and maxillary and mandibular canine exposure surgery. Dr. Kravitz will review his favorite clinical pearls for presurgical preparation and post-surgical care. Let's take the stress out of surgery!

• **11:00 AM – 12:00 PM**

Dr. Neal Kravitz on “Professional Growth and Accountability”

Bill Proffit playfully said, that “No one knows more than a second year orthodontic resident.” He was alluding to the overconfidence of a new orthodontist who has yet to experience the real word tribulations of private practice. Often, I wish that I could go back in time and speak to my younger self so that I could share the valuable experiences I eventually learned through trial and error. If only I knew then what I know now. Today, let's commit ourselves to be better!

• **1:00 PM – 2:00 PM**

Dr. Jose Bosio on “The Reason we Struggle to Keep Open Bite Cases Closed”

Michelangelo (1475-1564), an Italian Renaissance polymath wrote “If you knew how much work went into it, you would not call it genius”. In 2023, we professionals work hard to perfect ideal occlusions, but we still struggle to manage long term open bite malocclusions. The lecture goal is to show clinical and scientific reasons for why open bite malocclusions insist in relapsing. After the presentation, participants will hopefully know how to control variables and enhance their long-term results.

• **2:00 PM – 3:00 PM**

Dr. Jose Bosio on “Interproximal Enamel Reduction – When the ‘Saw’ Meets the Crystal”

Voltaire (1694-1778), a French enlightenment thinker, writer, historian and philosopher wrote “Common sense is not so common”. In 2022, professionals may not be using common sense and might be lacking “a vision” of the future trends regarding space gaining from Interproximal enamel

reduction (IPR). This lecture will focus on discussing the literature findings for enamel thickness and potential for enamel reduction and/or extractions, methods, risks and benefits for the procedure. The lecture goal is to create awareness, to inspire curiosity, and to improve knowledge on this daily orthodontic treatment tool.

• **3:00 PM – 4:00 PM**

Dr. Grant Coleman on “Efficient Management of Impactions with the Isoglide Eruption Spring”

Impactions, especially those of maxillary canines, are a common occurrence in orthodontics. Orthodontists have historically relied on inefficient and time-consuming methods for the treatment of such impactions. These methods usually require frequent reactivation, resulting in inconvenience and extended treatment times for patients, as well as reduced clinical efficiency and increased overhead for orthodontists. The Isoglide Eruption Spring has been developed as an alternative method of eruption, utilizing a nickel-titanium coil spring to apply light, constant force to the impacted tooth. Isoglide typically requires no reactivation appointments and offers a faster, more efficient method of bringing impactions into the dental arch. Isoglide offers more convenience and shorter treatment times for patients as well as improved clinical efficiency and reduced overhead for orthodontists.

Visit the MASO website at www.maso.org for more information about the meeting. ■



“5 Ways to Help Kids Starting Orthodontic Treatment”



Florence M. Sturm, C.P.E.

Children who are starting orthodontic treatment can often be anxious, nervous or scared. Here are a few tips to help reduce their worries and fears:

1. Before you go, ask the office about the sequence of events that will happen at the first appointment. Who will you meet, what type of diagnostic procedures to expect, and any other helpful information that you can share with your child.
2. Encourage your child to “get their teeth ready” before any orthodontic treatment. That means not just brushing teeth, but brushing the whole mouth (teeth, gums, and tongue). Explain that daily brushing of the whole mouth gets the gums “strong” and ready for braces!
3. Meet with friends of your child who have already experienced ortho treatment and encourage your child

to ask lots of questions. It can be comforting to your child to hear about the process from someone they know.

4. Remind your child that this will help them to have a great SMILE! Read some age-related books about braces and look at pictures of “before and after” smiles. Get your child excited about this new experience with your enthusiasm!
5. On the day your child starts treatment, be reassuring and very positive! Do NOT show signs of worry. Your child needs you to be excited and supportive. If a favorite toy would help your child to feel more confident when in the chair, definitely bring it along! And finally, DO NOT request to stay in the room with your child when procedure starts. Kids do much better when parents are not in the room. Your presence, while meant to reassure the child, actually does the opposite. Leave them with a smile and a proud hug!

Florence Sturm is a Certified Parent Educator in Bryn Mawr, PA. ■

“From the first moment that we are blessed with our children, our ultimate goal is to prepare them as best we can ... to leave us.”

Artwork by **Dr. Grace Nguyen**, MASO's featured artist.



CASE PRESENTATION

CASE PRESENTATION: MARPE versus SARPE

Dr. Wenjing Wendy Yu

University of Pennsylvania, School of Dental Medicine, Department of Orthodontics



This 25 year-old male presented to the University of Pennsylvania, School of Dental Medicine, Department of Orthodontics with a chief complaint of “ I don’t like the alignment of my front teeth and my underbite.

The cephalometric analysis revealed a mild class three skeletal pattern due to mild maxillary hypoplasia and mild mandibular prognathism. The Andrews transverse diagnosis was a narrow maxilla and a transverse deficiency of 7 mm. There was a moderate upper arch perimeter deficiency and a normal lower arch perimeter. The upper incisors were mildly proclined. There was a class one canine relationship on the right and a class three canine relationship on the left. The curve of Spee was exaggerated. The patient had a unilateral crossbite on the left and an anterior crossbite.

The treatment objectives were to achieve a class one molar/canine relationship, correct the anterior and posterior crossbites, and relieve the anterior crowding.

The patient was presented with two possible treatment plans: surgical and non-surgical. The non-surgical began with a Moon design TAD supported palatal expander to correct the transverse deficiency and extraction of lower right and left first premolars to camouflage the class three skeletal relationship. The surgical plan consisted of surgically assisted palatal expansion, decompensation of anterior teeth consisting of retroinclining upper anterior teeth and proclination of lower anterior teeth followed by a LeFort osteotomy to advance the maxilla.

The patient opted for the Marpe approach to correct the posterior crossbite and establish a proportionately normal width of the maxilla relative to the width of the mandible. The patient

was instructed to activate the expander two times per day. He was monitored weekly to evaluate the progress.



After activation of the appliance for 4 weeks, the patient reported minimal to no pain. Nevertheless, there was no evidence of a diastema between the upper central incisors. Upon clinical examination, it appeared that the TADS on the left were surrounded by inflamed gingival tissues. Since failure of one or more tads was apparent, removal of the appliance was recommended. The patient was then presented with the option of proceeding with surgically assisted palatal expansion to which he consented.



A bonded expander with full palatal coverage and occlusal platforms from first premolar to the second molar was cemented with Reliance Band-lock adhesive. Hooks were embedded into the appliance just mesial to first molars for eventual use of class three rubber bands. The lower arch was bonded with edgewise

CONTINUED ON PAGE 17

CASE PRESENTATION



brackets from second molar to second molar. The occlusal platforms were adjusted to provide an even distribution of 3-4 contacts on both sides of the appliance.

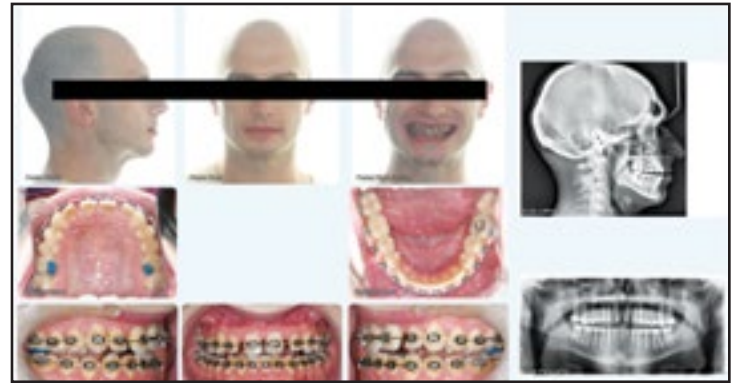


The patient was instructed to activate the appliance two times per day and reached the full activation of the 8mm expansion screw in three weeks. Acrylic was placed and cured over the expansion screw to lock the expander. The maxillary diastema measured 7 mm. A .020x.020 Bioforce sectional arch wire was ligated in place from lateral incisor to lateral incisor and a power chain was placed from central incisor to central incisor. A .020x .020 Bioforce arch wire was placed on the lower arch and heavy class three rubber bands were prescribed from the lower canines to the hooks on the expander. The objective was to retract the lower anterior teeth and extrude the upper posterior segment in order to increase the vertical dimension and create clockwise rotation of the mandible to improve the skeletal sagittal relationship. The patient was informed that a partial corticotomy and bone grafting procedure on the facial of the upper anterior teeth might be necessary if the vertical dimension was not successfully altered.



The bonded expander was removed three months after the completion of the expansion and bonded edgewise appliances were immediately placed on the upper premolars and molars. The leveling and alignment was achieved with .016 NiTi, .017x.025 NiTi, and .018x.025 stainless steel arch wires. Class two and

class three rubber bands were prescribed to correct the midline discrepancy. Bite turbos were placed on the occlusal surfaces of the upper molars to eliminate tooth contacts on brackets.



A progress cephalometric radiograph indicated that SNA remained unchanged but SNB decreased by over two degrees due to a substantial increase of the mandibular plane angle. The upper incisors were successfully proclined and the lower incisor inclination remained unchanged. The relationship of the upper lip to the lower lip improved with less prominence of the lower lip.



An upper .018x.025 stainless steel arch wire was inserted with exaggerated palatal crown torque from upper left first premolar to second molar. An .018 stainless steel arch wire with a closed power chain from canine to canine was combined with rubber bands from lower left canine and first premolar to the upper first and second premolars.

At this point the patient declined to go forward with the maxillary LeForte osteotomy.

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CASE REPORT



Cross elastics were prescribed from the palatal of the upper right second premolar and first molar to the buccal of the lower right second premolar and first molar to address post-surgical transverse relapse. The patient also used a class two rubber band on the right and a class three rubber band on the left. His compliance with rubber bands was excellent throughout treatment.

The bonded expander was cemented on 2/2021 and all appliances were removed on 7/2022. Beyond the failed non-surgical MARPE phase followed by the Covid interruption, the treatment time extended from 2/2021 to 7/2022 for an impressive 17 months of treatment time to achieve an acceptable esthetic and functional outcome. In retrospect, it is possible that a slower rate of expansion of one turn per day or one turn every two days might have resulted in successful expansion.

The final records revealed that the mandible rotated clockwise as a result of an increase in the mandibular plane angle. The upper incisors were uprighted and the lower incisors retracted to camouflage the class three skeletal pattern.

The patient was pleased with all aspects of treatment.



The retention phase began with a "Tremont design" wrap around retainer to avoid all occlusal contacts which occurs when the labial bow crosses over the occlusal surface distal of the upper canines or with the presence of an Adams clasp. Triad light cured acrylic stabilizes the posteriorly reinforced labial bow and is extremely durable. The patient was instructed to use the retainer only at nighttime.

The lower arch was retained with a bonded lingual canine to canine retainer. ■

Ceph	2019	2021
SNA	81.7	81.3
SNB	82.3	79.5
ANB	-0.6	1.8
SN-MP	27	31.8
FMA	21.7	28.2
U1-NA (mm)	4.1	2.8
U1-SN	111	103.6
L1-NB (mm)	5.1	5.3
IMPA	91.7	91.7
Upper Lip	-10.2	-7.9
Lower Lip	-2.8	-1.4



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**

larwang[at]comcast.net

Best wishes for the spring season MASO community. The council members and talented AAO staff are on the front lines in our mission to promote and defend the orthodontic specialty, keep members informed of what is happening, and educate the general public. The council met in-person in St. Louis September 30 – October 1, 2022. The following is an update of COC activities:

Consumer Awareness Program (CAP)

The AAO CAP is the only mass campaign promoting orthodontic treatment by an orthodontist. The program has been honed over the years and is currently digitally focused, behaviorally targeted, and demographically targeted. Some recent statistics:

FY22 Performance

- Website
 - o 4.5 Million Users
 - o 9.7 Million Pageviews
- Social Media
 - o 180 Million Impressions
 - ◆ 103 Million on Facebook / 77.5 Million on Google & YouTube
 - o 7 Million Clicks
 - ◆ 4.7 Million from Facebook (4.57% CTR)
 - ◆ 2.3 Million from Google & YouTube (3.01% CTR)

FY22-23 Performance

The AAO CAP is now undergoing strategic revamping for existing and new media channels as well as preparing for a new creative strategy. To help with achieving these goals and optimizing our digital media strategy, the AAO has hired the digital media agency Steady Rain. Their objectives are:

- Maximize the effectiveness and efficiency of paid digital media to drive awareness of AAO and deliver new users to the Find an Orthodontist page
- Leverage previously completed work and enhance with quick wins
- Improve speed to implementation and testing with a dedicated digital marketing team
- Improve media transparency and spending flexibility
- Increase performance data visibility through detailed reporting and analysis

Consumer Website

The consumer website redesign to improve SEO optimization is underway and is targeted for an early 2023 launch.

New Creative Approach Tailored for Ease of Consumption

Materials are being developed for a new creative approach emphasizing “snackable” content that is short-form and easy to consume. Photos, infographics, memes and short videos will be included. As these new creative assets are developed they will be tested on Facebook and on the new channels.

Bullying Bites

The central rallying day for National Bullying Prevention Month, which the AAO supports via the Bullying Bites campaign, is Unity Day and was on October 19. The AAO Bullying Bites campaign keeps gaining momentum with every year and 2022 was no different. AAO members from all over the country had their teams wear orange that day and there were plenty of pictures and posts using the hashtag #bullyingbites to show our unity!

This year, the AAO made a variety of resources available to members to utilize in their practices. Bullying Bites promotional kits were delivered to practices who ordered them. The kits included 3 posters, 2 easel back counter cards, 500 pledge forms and 500 stickers and were very well received by the membership. Bullying Bites 2022 was further supported by eBulletins, a social media campaign and downloadable content for members. The campaign was a huge success and it's looking like 2023 will be even better.

Member Marketing

The AAO Board of Trustees has identified ‘Member Centric Marketing’ as one of three objectives the AAO needs to address in FY23.

The following strategies will be employed:

- Omni-Channel Communication
 - o Improve findability and search functionality on member website
 - o Improve readability of print publications
 - o Social media strategy with channel and content specific to audience
 - o Video content for member website and social media
 - o Cultivate network of orthodontic influencers to amplify messages
 - o Explore potential new AAO app
 - o Grow SMS text distribution list
- Reach All Generations
 - o Use a variety of channels to reach all generations

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AAO COUNCIL REPORTS

- Measure, Measure, Measure
 - Employ A/B testing to optimize email/eBulletin open rate
 - Track effectiveness of specific tactics
- Personal Member Preferences
 - Improve member level data collection and curate/personalize content accordingly

- Omni-Channel Communication
 - Continue to optimize eBulletins

Thank you, as always, for your membership in the American Association of Orthodontists and the Middle-Atlantic Society of Orthodontists. Please feel free to reach out to me with any questions or ideas (larwang[at]comcast.net). ■



COUNCIL ON GOVERNMENT AFFAIRS

Dr. Jean Edouard Asmar
jeanasmar[at]aol.com

COGA met in St. Louis, Missouri on October 7 and 8, alone and jointly with AAOPAC to spend time refocusing our efforts to better reflect the changes happening in the post-pandemic era.

This was a highly productive and successful meeting for both COGA and AAOPAC.

Many topics were discussed including a name change for COGA to better reflect our purpose and mission.

Pertinent highlights and summary of actions from the meeting:

- Formal AAO Advocacy Grassroots Strategy approved
- COGA name change to be brought forward to AAO House of Delegates replacing *Council on Governmental Affairs* with *Council on Government Advocacy*
- National Advocacy Network (NAN) approved (name, roles, and structure)
- Component Advocacy Liaison (CALs) positions within NAN named and priorities/responsibilities created
- Recommending to BOT an organized meeting of CALs as early as fall 2023

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AAO COUNCIL REPORTS

COGA has also had several Virtual meetings to plan for the October 7-8 meeting, the upcoming Professional Advocacy conference and the election results summarized by Alex Campau, with Cozen O'Connor Public Strategies (August, 3, September 7, November 23, 2022 and January 9, 2023).

COGA's next meeting will be in conjunction with the 2023 Professional Advocacy Conference which will be held at the Hamilton Hotel in Washington, DC on Tuesday, February 27, and Wednesday, February 28, 2023.

The COGA/AAOPAC meeting prior to the conference will begin at 2:00pm on Monday, February 27, and will continue through Tuesday morning, February 28,

2023 prior to the start of the Advocacy Conference that afternoon. The groups will have the opportunity to meet separately if needed.

Member registration for the Advocacy Conference has reached capacity. The schedule on Tuesday begins with registration at 1:00pm, and the Conference starts at 2:00pm. The afternoon program ends at 5:30pm followed by a reception with special guests and Members of Congress, and then dinner. Wednesday morning includes a short program followed by Capitol Hill meetings which are expected to end by 2:30pm. A pre-Conference meeting on Tuesday, February 28 is being organized with Officials at the Canadian Embassy to continue building rapport on behalf of our Canadian members. ■



COUNCIL ON MEMBERSHIP, ETHICS & JUDICIAL CONCERNS

Dr. Luis Toro

drlatoro[at]gmail.com

Recruitment & Retention

- 96% of Active members have renewed through December 2022 (compared to 97% a year ago)
- As of 5/31/22, AAO had a market share of 86.5% in U.S. and 52.5% in Canada
- Considering ways to add value to Canadian members

Ethics in Orthodontics

- Underwent a review of the Principles of Ethics and Code of professional Conduct in summer 2022 and will be submitting multiple related resolutions
- Hosting a member webinar on ethical considerations for orthodontists this spring

Residency Presentations

- Currently scheduling presentations at residency programs for the spring

- To date, we have scheduled 17 programs for Resident Vitals this year
- Can you help us get into the other programs?

Approximately 96% of Active Members have renewed their AAO membership through December 2022 compared to 97% at the same time a year ago. Further, most other prominent categories are behind FY22 renewals, except Life Active Members, who are approximately one percentage point ahead. Outreach to dropped members will continue leading up to the Annual session early registration deadline to encourage reinstatements. Dropped members who reinstate during the current fiscal year will count as renewals.

As of May 31, 2022 the AAO's market share in the U.S. is 86.5%. This is an increase from 86.3% in 2021 and 86.0% in 2020.

For the first time in 2022, the AAO also calculated its Canadian market share, which was 52.5% as of May 31, 2022. Despite a relatively low share of Canadian orthodontists, AAO's market share in Canada is believed to be higher than the Canadian Association of Orthodontists.

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AAO COUNCIL REPORTS

The Council is submitting several resolutions to the 2023 HOD:

- ◆ A trio of amendments to the AAO Financial Policies Waivers section.
- ◆ A resolution to amend our AAO Bylaws to define more clearly who is eligible for retired membership.
 - A resolution to amend the AAO Financial policies regarding the membership dues of our active service members.
 - A couple of resolutions streamlining our AAO Bylaws and our Principles of Ethics documents.

COMEJC will recommend to Council on Conventions several ideas on possibly increasing our Canadian membership and how Ccon can approach particular ethical concerns

that have risen from AAO conference speakers.

The Council is happy to report that, per AAO policy (all AAO documents and procedures need to be reviewed every three years), the Council submitted our Principles of Ethics and Code of Professional Conduct to review from an outside law firm this summer.

After receiving the review of our documents, the Council decided to accept some of their recommendations. It will submit resolutions to amend our Bylaws and Code of Ethics documents accordingly.

This is my 6th and last year as a COMEJC member, and I wish to thank MASO's Board of Directors and the entire membership for their trust and help throughout my full term. It has been an honor and a privilege to serve MASO's members. ■



COUNCIL ON NEW AND YOUNGER MEMBERS

Dr. Lauren Wiese
Lwiese01[at]gmail.com

The Council on New and Younger Members is excited to begin our work in 2023!

CONYM members will convene in-person for our annual meeting on Saturday February 4, 2023 in St. Louis. At this meeting, members will update and discuss their progress on the following endeavors/topics.

CONYM plans and facilitates the New Orthodontist and Resident Conference at the annual session. This event required pre-registration and is already sold out for the 2023 Annual Session! We will discuss the program format and agenda, identify topics for presentations and roundtable discussions, and confirm speakers and discussion moderators.

Each year, CONYM assists with conducting outreach to non-renewed new and younger members to encourage them to renew their AAO memberships. Members conducted this outreach in September and October of 2022.

Similarly, members of CONYM will be initiating a member onboarding process to contact newly transitioned active members of the AAO. 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.

CONYM's new mentoring program, AAO Connections, was launched in the fall of 2021. As of the summer of 2022, there were 61 advisors and 77 learners fully onboard. A total of 51 sessions were booked since the launch with average session rating for advisors at 4.9/5 and learners at 5.5. Unfortunately, adoption of the program has been slow despite promotion and recruitment efforts via email and eBulletin, presentations to residency programs, constituent leadership meetings, at the AAO Champions meeting, and at the Annual Session. The question as to whether the program should continue will be discussed.

CONYM continues to represent the AAO at the annual GORP and ASDA meetings and we look forward to maintaining our efforts at these conferences in 2023.

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

AAO COUNCIL REPORTS


**COUNCIL ON
ORTHODONTIC EDUCATION**
Dr. Anil Ardeschna

ardeschap[at]sdm.rutgers.edu

Greetings to all my dear friends and colleagues in MASO. It was so nice to see many of you at the MASO meeting in

Philadelphia hosted by President Dr. Madeleine Goodman. The Council on Orthodontic Education met in person for its annual meeting on October 3, 2022. This was a whole day event at the AAO headquarters in St. Louis chaired by Dr. Kelton Stewart.

The duties of the Council are to study and make recommendations on all matters relating to orthodontic education; consult with all appropriate dental, educational and governmental organizations concerning orthodontic education.

SUMMARY OF ACTIVITIES:

Dr. Richard Williams, the AAO Board of Trustee, shared general remarks and the recently approved motion on the review of the 2019 Sleep Apnea White Paper through a new Task Force. The purpose of this OSA Task Force II would be to review, update and recommend. Dr. Behrents will Chair and Dr. Palomo will be Vice-Chair. The COE selected Dr. Anil Ardeschna and Dr. Jeff Iverson to serve on the Task Force. Dr. Williams also shared that the three areas that Clinical Practice Guidelines will be working on, in the coming year, are: (a) Teledentistry, (b) Standards of Care, and (c) Sleep. Mr. Trey Lawrence, AAO Legal Counsel introduced Orthattorney. The purpose of Orthattorney is to connect with members in new ways while providing beneficial legal updates and advice for members. AAO realizes that new and younger members or potential members communicate through many different channels than we currently are using. Additionally, research shows they want to connect with people and not a business. The links to The Orthattorney are as follows: <https://www.instagram.com/theorthattorney>, The Orthattorney - YouTube

Mr. Lawrence discussed the Evidence-based Advocacy subcommittees current assignment of funding research, looking potentially to outside medical groups for assistance; and if needed, developing plans for identified research needs. Advocacy sees a continued need for grass-root efforts from members. In FY22, over 1,000 AAO members engaged on Federal and state advocacy campaigns.

Dr. Kanyusik reviewed the opportunity for programs or residents to volunteer for the Health Volunteer Overseas

program, which provides opportunities for volunteer teaching to other faculty/programs in various health fields in a number of overseas locations. The ADA is one of HVO sponsors. Dr. Kanyusik invites programs to become involved. The HVO website is: <https://hvousa.org/>. Dr. Kanyusik will provide a short presentation at the SOE Educational Leadership Conference in April.

Dr. Emile Rossouw reported that all information for certification and renewals can be found on the ABO website, this includes study guide, sample cases, etc.

The pass rate for ABO certification is down from 96% to 90%. No other significant changes reported.

Certification resources can be found at:

<https://www.americanboardortho.com/orthodontists/board-certified-orthodontist-support/downloads-and-resources/>

Renewal information:

<https://www.americanboardortho.com/orthodontists/renew-certification/>

The 2023 ADEA Annual Session will be held in Portland, Oregon March 11-14. The theme for the 2023 meeting is "Believe I'm Possible" and will include programs and presentations that will empower attendees with the skills and strategies to turn their educational ideas into realities. The Orthodontic Section meeting will go back to in-person at the ADEA Annual Session in the spring.

Dr. Edmund Khoo, the ADEA Councilor also discussed the following:

- The ADEA Section on Orthodontics three-year rising leadership position,
- The ADEA & AAO Student Travel award for two residents interested in going into a teaching career to attend the Annual ADEA Session, and
- Poster and Oral presentation opportunities for students.

The 2023 Educational Leadership Conference is named in honor of Dr. Henry Fields and will take place on Friday afternoon, April 21. The SOE membership numbers have declined slightly since COVID. Ideas proposed to increase membership include:

- A message to go all Chairs and Program Directors promoting membership in the SOE.
- Offering Program Directors with residents that have an interest in academia the opportunity to attend the SOE meeting. Active members will collaborate with those residents to potentially join SOE.

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AAO COUNCIL REPORTS

The application cycle for the **AAO Full-Time Faculty Fellowship Award** is now closed. The application review process will conclude by early April 2023 and the selected fellowship awardees and their home institutions will be notified in April. Official announcements will be made during the 2023 AAO Annual session in Chicago.

Dr. Ardeshtna reported on the progress of the WSS Sleep Force Update Task force. The first of three webinars with Dr. Kasey Li from the WSS was completed and presented live to members on October 20. The Task Force hopes to finalize their efforts by early-Spring 2023. All webinars will be available to members.

The Evidence-based Advocacy subcommittee has been assigned an ongoing research project to find evidence supporting the position that orthodontic treatment and oral health is important to overall systemic health.

The COE discussed the development of a **Resident Quarterly webinar series**. This had been originally discussed last year. It was returned to the table for further discussion. All members are in favor of evaluating a program using the current AAO's Zoom Webinar software and volunteers donating their time for presentations.

Potential topics including Financial Management (personal and business), Contract tips & tricks, the two sides of DSO/OSO and what best fits your needs after school, etc. The COE agreed to finalize a topic outline, to list the learning objectives, locate volunteer presenters, and produce one webinar before the Annual Session.

Dr. Ardeshtna and Dr. Stewart (GLAO) reported on the Partners in Research process. There was discussion regarding potential sharing of the survey findings and/or abstracts with AAO and SOE. The team will evaluate the level of interest, feasibility, and potential process of posting data next year.

The COE proposed budget for 2023 – 2024 was discussed and accepted. The next meeting will be on October 2, 2023 at the AAO Headquarters, St. Louis, MO

Please feel free to contact me If you have any questions related to orthodontic education that you would like to bring to the council's attention. My email is ardeshtap[at]sdm.rutgers.edu and telephone number is 973-972-1892.

I wish you all a healthy and joyous New Year, and look forward to seeing you at our next meeting. ■



COUNCIL ON ORTHODONTIC PRACTICE

Dr. Lara Minahan
minahanl[at]hotmail.com

GENERAL: COOP would like to express its appreciation for the tireless efforts from our exceptional 2022-23 Executive Board, BOT and AAO staff. We also sincerely appreciate the mentorship of our BOT Liaison, Dr. Trista Felty and At-Large BOT Liaison, Dr. Anil Idiculla.

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

Module 1: Planning your office design project; by Jill Allen, Jill Allen and Associates

Module 2: Determining your practice needs; by Tracy Moawad/ Cassie Kellner, Hummingbird Assoc.

Module 3: Owning vs. Leasing; by Zane Harris, Cain Watters

Module 4: Financing your project; by Mason Stern, Cain Watters

Module 5: Site location and details; by Ryan Moynihan, Gaige & GeoStrategies

Module 6: Major equipment and software for your practice; by Dr. Brandon Shouri

Module 7: Office design layout and interior design; by Felipe Lopez, JoeArchitect

AAO PRACTICE MANAGEMENT FORMS: To best serve our membership and their patients, informed consent forms of various topics are available on the AAO website. I am confident there is something there that you may not have considered for your practice – please take the time to visit. Most recently, the informed consent form for TAD implant supported expanders was added to the repertoire. COOP welcomes all member recommendations in an effort update

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AAO forms. We also welcome suggestions for additional consent forms for clinical procedures not currently covered (for example consent forms used in your practice). 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 benefit of our membership.

NATIONAL EATING DISORDERS ASSOCIATION (NEDA) collaboration: A new collaboration between AAO and NEDA will prove to be valuable for our membership, their staff, and patients. A COOP subcommittee aims to provide educational resources for the membership in an effort to enhance our ability to recognize eating disorders (EDs) and to better understand triggering behaviors and language that may exacerbate the illness. This subcommittee has identified several strategies that will support this effort. Stay tuned!

AAO-SPONSORED WEBINARS: COOP assists with the coordination of topics for AAO webinars throughout the year. For the balance of the 2022-23 webinar schedule, see the chart below.

ORTHODONTIC STAFF CLUB (OSC): Doctors are urged to encourage the promotion of the Specialized Orthodontic

Assistant program. The benefits of membership can be appreciated by going on-line (website access, fee discounts, etc.). The OSC Facebook page has been transformed into a valuable educational resource. It encompasses topics such as team training and clinical pearls; which in turn can be helpful for the practice. Staff can join the OSC at: <https://www.facebook.com/groups/AAOstaffclub>

Please note that in honor of our hard working teams, the AAO Staff Appreciation Day will be celebrated on the first Wednesday in June. Team celebrations may, of course, extend as long as your individual practice wishes!

COUNCIL TRANSITIONS: Over the course of summer, the COOP Council will be experiencing the transition of two of its members from: PCSO and MASO.

The next COOP F2F meeting is not yet scheduled.

As always, I welcome all our members to reach out at any time with questions or comments that I may share with the Council. As my term come to a close, I genuinely thank you for the honor of serving MASO in this capacity. I am also thankful for the growth it afforded me, and for the intrinsic camaraderie I have developed with the Council members. Ciao and grazie! ■

Date	Webinar Subject	Presenter(s) / Moderator	Category/Personas/Tags
1/13/2023	Digital MARPE: From Failure to Success!	Dr. Sunil Hirani	Doctor / Aligners
1/19/2023	9 Steps to OSHA Safety in 2023	Jackie Dorst	TEAM / Practice Management
2/10/2023	Coding Update Webinar	Dr. Doug Depew	TEAM / Practice Management
2/15/2023	AAOMS/AAO Webinar - Orthognathic Surgery in the patient with TMJ pathology: An overview	Dr. Daniel Perez and Dr. Jerome Gibson	Doctor / Multi-disciplinary
2/23/2023	Mapping Success and Profitability Using Business Intelligence	Ryan Moynihan	Bus of Ortho / Financial Management
3/2/2023	Indirect Bonding in the 3D Printing Era. A step by step presentation.	Dr. ElShebiny	Doctor / Scientific / 3D
4/11/2022	4D Printing Technology in Clear Aligner Therapy	Dr. Ki Beom Kim	Doctor / Scientific / Aligners

AAO COUNCIL REPORTS

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

jbosio[at]umaryland.edu

COSA council members met online on January 6th to deliberate on the council's agenda. The following items were discussed:

- Dr. Behrents reported that the Board of Trustees (BOT) has completed the new AAO strategic map FY2023-2027. All AAO members should understand the Mission, Vision, Core Values, Goals and Objectives and Initiatives of the AAO organization; this new plan clearly demonstrate all these features. The final plan is included in this issue of the MASO journal.
- Twenty-two applications were submitted for the Hellman, Sicher, and Graber Awards. Each COSA member independently ranked the applications. The results will be announced by the AAO in the near future. The winners will receive their awards prior to the first lecture of the 2023 AAO meeting in Chicago.
- There were 393 applications received for the programs sponsored by COSA. From 64 Oral Research applications, 27 were accepted; all 30 table clinics, and 299 E-Posters

applications were accepted for presentation during the 2023 Chicago Annual meeting.

- COSA members discussed the opportunity to include presentations of its sponsored programs during the Society of Educators meeting, immediately prior to the 2024 AAO meeting. These presentations might be even more appealing to the orthodontic educators than to the general AAO attendees. This measure is in line with recent scheduling changes since the AAO annual meetings will be shorter and COSA sponsored programs may need to fit on a shorter agenda.
- COSA members will continue serving during the AAO Annual session as room moderators for the Hellman, Sicher, and Graber lectures, the Oral Research presentations, and the table clinic program. The COSA members will also judge the Residents Scholar Award Program. We have a full agenda of work planned for the 2023 AAO annual meeting in Chicago.
- Dr. Steven Marshall is stepping down as the COSA Council Chair. Drs. Bosio and Tufekci accepted to have their names placed on the ballot for election as the Council chair. The result of this election will be announced by the BOT.

It has been an honor and privilege to serve on COSA on your behalf. Please feel free to reach out to me if I can be of assistance. ■

**AAOF UPDATE****Dr. Orhan Tuncay**

otuncay[at]dental.temple.edu

- We invite all AAO members to support the foundation by making an annual [donation](#).
- The [Resident Education Program](#) was utilized by those orthodontic residents who attended the Miami meeting. The AAOF supported 750 residents through this program in 2022.
- The AAOF Awards Program approved 26 grant applications for funding in 2022. Applications for 2023 funding will be reviewed in January.

**AAOF COMMITS ADDITIONAL FUNDING TO
CRANIOFACIAL GROWTH LEGACY PROJECT**

The AAO Foundation committed \$540,000 to the Craniofacial Growth Legacy Collection project - a comp-

lementary web site and database of nine collections, from both U.S. and Canada, of longitudinal craniofacial growth records in untreated children and adolescents. Under the direction of the steering committee led by Dr. Heesoo Oh, Dr. Mark Hans, Dr. James McNamara and Sean Curry, Ph.D. the newly committed dollars will go to fund the next phase – making the project one of the most highly recognized resources for orthodontic research. “The collection has significantly contributed to expanding knowledge on human development by giving access to 842 subjects and over 18,900 radiographs of irreplaceable longitudinal growth records. Our committee is grateful for the AAOF's continued support of this historic project,” said steering committee chair, Dr. Heesoo Oh.

**DONATED ORTHODONTIC SERVICES
IS LOOKING FOR VOLUNTEERS**

DOS is looking for volunteers in the MASO constituent to participate in this program. To learn about this program please visit our [website](#). If you decide you are interested in volunteering or have additional questions, email us at dos@aaortho.org.

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AAO COUNCIL REPORTS

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 education support. The AAO Foundation received 45 applications for funding in 2022. The AAO Foundation Board approved funding of 26 awards equaling \$409,425. The deadline for 2023 funding is October 28, 2022 and the applications will be reviewed in January of 2023.

RESIDENT EDUCATION PROGRAM

The AAO Foundation recognizes the importance of residents having the opportunity to experience an AAO Annual Session, and we support them through this program by offering a one-time \$400 incentive to offset expenses to attend the conference. At the 2022 Miami AAO Annual Session, 750 orthodontic residents applied for this incentive and were approved. For more information about this program, please visit our [website](#). This program will be available again at the Chicago AAO Annual Session in 2023.

The AAOF stipend allowed me to attend the AAO meeting without having to worry about the high costs of travel and lodging especially on a resident's budget. I am so grateful that I had this opportunity to further my education and network with other members as I prepare to start my orthodontic career.

Kaitlyn Tom, DDS
Resident, Dept. of Orthodontics
University of Washington

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.

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.

FOLLOW US IN SOCIAL MEDIA

You can find the AAO Foundation in social media! If you have not already, please consider following us on Facebook, Twitter and Instagram. This is the best way to stay up to date on the happenings of the AAOF.

FOR MORE INFORMATION

If you should have any questions or concerns, please contact Jackie Bode, AAOF Senior Vice President, at 314-292-6546 or [jbode\[at\]aaortho.org](mailto:jbode[at]aaortho.org). We look forward to seeing you in April at the Chicago meeting! ■

Artwork by Dr. Grace Nguyen, MASO's featured artist.



AAO HOUSE OF DELEGATES

Dr. Richard H. Albright, III
ricalbright3[at]gmail.com

The MASO representatives to the AAO House of Delegates will be meeting during the upcoming MASO meeting in Baltimore. The House of Delegates meeting is scheduled for April 21

and April 24 during the annual AAO session in Chicago. AAO members are encouraged to attend, participate, and submit resolutions and comments. Information can be found on the AAO member website.

Thank you for your support, we look forward to representing MASO at the AAO House of Delegates. ■



AAO PAC UPDATE

Dr. Doug Harte
drbraces[at]msn.com

Welcome to 2023! So how did we perform in the November elections? Well, we have a split congress which hopefully will force compromise to get things done. Either way, the AAOPAC keeps on humming working both in front and behind the scenes in congress to protect the Orthodontic interests of our members, profession and our patients.

As a quick recap, 95 % of the House of Representatives members who received contributions from us won re-election. On the Senate side, 100% of the candidates we contributed to won re-election. Either way we have maintained a balanced giving.

AAOPAC is key to our advocacy strategy and influence with the Federal government and for AAO state advocacy initiatives across the country.

How is the AAOPAC so successful for our AAO members and Advocacy?

We follow a strategic approach called the **Pillars of Giving** to contribute to Members of Congress who support our federal and state advocacy priorities on a bi-partisan basis.

Under the Pillars of Giving guidelines, recipients of contributions must meet stringent AAOPAC criteria including:

1. Alignment with AAO Mission and Values

- a. Rooted in our vision, giving should represent excellence in inclusive care for public health that is driven by data, supported by AAO members, and contributed to ethical candidates who demonstrate consistency with AAO supported values.

2. Supports AAO issue Priorities

- a. Candidates should align with our priorities, have potential to support our issues, or be neutralized through our efforts to advocate and educate for change.

3. Influential Change Agent

- a. Leaders for change and rising stars able to make a difference will be our priority.

4. AAO Maintains Balanced Giving

- a. To drive sustainability for our success, we are mindful of balanced bipartisan giving, absent of extreme partisan swings, no matter the political dynamics of any cycle.

SO WHY SHOULD YOU GIVE?

1. YOU ARE MAKING AN IMMEDIATE IMPACT FOR YOUR SPECIALTY PLUS PATIENT HEALTH AND SAFETY:

- a. Every contribution to AAOPAC is an investment in your future and the AAO's work in terms of federal regulation, priorities on the Hill and a link back to our state advocacy efforts. Federal lawmakers have political influence not just in Washington but also on the state level.

2. YOU ARE MAKING A DIFFERENCE FOR AAO ADVOCACY PRIORITIES NOT ONLY IN WASHINGTON, DC BUT THROUGHOUT STATES ACROSS THE COUNTRY

3. AAOPAC CAN ONLY BE SUCCESSFUL WITH YOUR CONTINUED HELP

- a. There is strength in numbers and the PAC's best chance of success is with your strong support. AAOPAC only uses member's personal contributions (not membership dues) for political purposes. *When it comes to government, our specialty can be impacted at the stroke of a pen.*

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AAO COUNCIL REPORTS

We must be at the table with an ability to positively influence those decisions for AAO members and patients.

4. JOIN THE CLUB!!!!!!

- a. While AAOPAC contributions do much to help, the reality is that less than 400 contributors shoulder the burden and giving responsibility for nearly 15,000 AAO members eligible to contribute to AAOPAC. That is 2.5% of AAO membership making a difference through advocacy for 100% of

our specialty. We all can do more and the stakes have never been higher. Join your colleagues to help fuel advocacy work on your behalf!

5. MAKE A DIFFERENCE- Go to AAOPAC.ORG

Please do not hesitate to reach out to me if you have any questions on giving.

Wishing everyone a prosperous and happy 2023.

PS. This was not written by CHATGPT. ■



ABO CONSTITUENCY REPORT

Dr. Roberto Hernandez-Orsini

hernandez-orsini[at]americanboardortho.com

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.

Achieving Board Certification:

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 10 years to remain board certified.

The ABO is excited to share that more than half of AAO orthodontists – 58% - are now board certified. This accomplishment allows all of us to have a stronger voice as together we set the standard of care for our specialty. Please view the video announcement [HERE](#).

ABO Examination Update:

- **Written Examination Update:** The April 5, 2022, ABO Written Examination was administered to 412 examinees at Pearson Vue Testing Centers in the United States and Canada with a 90% pass rate.

The 2023 Written Examination is scheduled for April 4, with online registration opening November 9, 2022, and scheduled to close January 12, 2023. As a reminder,

once this examination is successfully completed, it does not expire.

The Written Examination is composed of 240 multiple-choice questions on subject areas outlined by CODA divided into 4 modules. Examination specifications and an updated 2023 Written Exam Reading List are located on the [ABO website](#) for reference.

- **Scenario-based Clinical Examination Update:**

The ABO conducted 2022 Scenario-based Clinical Examinations in February and October. A total of 352 examinees were certified or recertified during the 1st and 2nd quarters of 2022, including the February 2022 Scenario-based Clinical Examination. A total of 466 examinees were certified or recertified during the 3rd and 4th quarters of 2022, including the October 2022 Scenario-based Clinical Examination. From February exam, we had 16 new Diplomates of our Constituency, whereas from November exam we had 26 new ABO Certified Orthodontists for a total of 42. Please visit the [ABO website](#) for a complete listing of names by constituency for all examinations.

The 2023 Scenario-based Clinical Examination is scheduled for February 23-24 at Pearson Vue Testing Centers Worldwide. Examination dates for 2024 have been announced as February 22-23, 2024, with online registration opening March 1, 2023.

Orthodontists taking the Scenario-based Clinical Examination are objectively tested on their knowledge, skills, and critical thinking abilities. The Clinical Examination is comprised of scenarios from each of four domains using ABO provided patient cases. The questions are weighted so each Domain is equally represented. The exam is graded on a pass/fail basis and scored by different pairs of ABO examiners to ensure accuracy and

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consistency for each section. Examples of what may be included in the cases presented, updated study materials, board prepared videos, along with Clinical Exam FAQs are all located on the [ABO website](#).

- **Certification Renewal:** An important part of the board certification process includes Certification Renewal with successful completion being required every 10 years to maintain an active board status. Voluntary Certification Renewal is also encouraged for Lifetime board certified orthodontists. Certification Renewal demonstrates a board certified orthodontist's commitment to lifelong learning and personal dedication to excellence.

The certification renewal process may be started no earlier than 36 months prior to the expiration date printed on the board-certified orthodontist's certificate. ABO communications are regularly distributed to those up for renewal. Two options in completing the examination are offered to include an online board case exam or mail-in case report exam, both of which require the completion of an AJODO continuing education component. Online preparation materials are available to include a Study Guide with FAQs along with this [video](#), summarizing the process.

Educational Update/Outreach:

- The ABO will hold the 2023 ABO Educators Symposium in St. Louis, Missouri on November 11. Orthodontic department chairs, program directors, ABO ambassadors and emeriti, along with AAO Trustees and CDABO Councilors will be invited to participate.
- The ABO participated in the 2022 GORP meeting held at the University of Michigan, Ann Arbor, MI. Dr. Patrick Foley shared information with the residents on his orthodontic journey and ABO staff were available to answer questions on board certification.
- ABO directors attended the 2022 CDABO Summer Meeting in Sonoma, CA.
- Dr. Patrick Foley, ABO President, Dr. Timothy Trulove, ABO President-Elect and Ms. Carole Newport, ABO CEO, 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 2022 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 requesting CODA-accredited orthodontic programs.
- The ABO's Advocacy Program, originally designed to have at least one assigned volunteer advocate at each CODA accredited orthodontic programs in the United States and Canada to promote board certification, is currently being reviewed and evaluated to ensure the format continues to be relevant since moving to the Scenario-based Clinical Examination. Should changes be identified in the process, the ABO will communicate updates as appropriate.
- Please follow the ABO's new Facebook page at [facebook.com/americanboardoforthodontics](https://www.facebook.com/americanboardoforthodontics). We are also pleased to announce that the ABO also has an Instagram account <https://www.instagram.com/americanboardorthodontics>. Please follow us on both accounts for the latest ABO updates.
- ABO storefront materials and Educational Toolkit complimentary downloads are available to board certified orthodontists. Items include consumer brochures (customizable), patient/team materials, window clings, pathway graphics, duplicate certificate, ABO seal/logo, suggested website copy, sample press release Educational Toolkit and Brand Standards Guide. 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. The ABO's "It Takes A Specialist" campaign continues to enjoy positive feedback. The video is provided to board certified orthodontists for use in their practice and on social media channels to educate patients and general public on the importance of using a specialist. A digital toolkit has also been developed to compliment the campaign and is also available on personal online dashboards.

Consider Serving as an ABO Director

- 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. Thank you! ■



TREASURER'S REPORT

Dr. Sana Augustus

sanap18[at]hotmail.com

CURRENT ASSETS AS OF DECEMBER 31, 2022

Savings/Cash	\$203,754.28
Reserve Account	557,104.53
Other Current Assets	9,003.99
TOTAL ASSETS	\$769,862.80

INCOME	Year-End 2022	2023 Budget
Dues-Active / Reinstatement	\$140,529.55	\$136,000.00
Newsletter Advertising	0.00	1,900.00
MEETINGS		
CE Course	0.00	24,120.00
CE Registration	42,310.00	0.00
NET ANNUAL CONVENTION	3,715.16	55,000.00
OTHER INCOME		
Prior Year Income	(5,435.40)	0.00
Interest Income	98.43	200.00
Dividends	16,614.53	7,000.00
Miscellaneous Income	0.00	0.00
TOTAL INCOME	197,832.27	224,220.00

EXPENSES	Year-End 2022	2023 Budget
OPERATING EXPENSES		
AAO Dues Billing Fee	0.00	2,900.00
President Honorarium	1,000.00	1,000.00
President Component Vists	0.00	1,500.00
AS Board Stipend (\$400 ea)	4,800.00	4,800.00
Management Fee	83,819.00	83,819.00
Office Supplies, Checks	1,200.00	1,400.00
Accounting	710.00	660.00
Subscriptns-formstack/cons cont	1,863.80	700.00
Stationary & Envelopes	0.00	200.00
Copying	656.96	400.00
Postage/Mailing House	238.99	240.00
Telephone/Fax	1,030.15	1,200.00
AAO Liability Insurance	1,142.00	0.00
Office/File Storage	120.00	150.00
Journal Editor - Honorarium	1,000.00	1,000.00
AS Scholarships	49,800.00	30,000.00
Gifts and Awards	4,626.08	3,500.00
Website Development	2,842.99	1,300.00
Journal Publication/Mailing	13,776.54	10,000.00
BOD - Travel Del-Mar Caucus	2,262.32	3,000.00
BOD - Meals/Room/AV - Del Mar	5,942.53	3,700.00
BOD-AnnlSession Bus Mtg (Sep)	123.36	200.00
BOD- AS Bd Mtgs (Sep)	0.00	1,500.00
Strategic Planning Initiatives	1,665.95	2,000.00
Website-maint, network solutns	468.00	0.00
CE Course	0.00	20,400.00
Audiovisual/Equipment	14,568.26	0.00
Meals/Breaks	6,610.56	0.00
CE - Postage/Mailing House	1,232.64	0.00
CE - Printing	1,080.41	0.00
Speaker Expense	5,474.88	0.00
Staff/Board Expense	2,147.38	0.00
CE Board Dinner	3,001.33	2,500.00
Hotel/Facility Rental	800.00	0.00
NATIONAL ANNUAL MEETING		
Leadership/Gov Affairs Conf/EL	374.85	200.00
AAO-Del(7) Alt (3)Room & Misc	14,922.09	12,500.00
AAO-Delegates And Alt Airfare	3,912.83	2,500.00
AAO-Exc Dir Attendance	2,361.25	2,300.00
AAOF Contribution	5,000.00	5,000.00
AAO Miscellaneous	623.48	0.00
Committee Expense	1,500.00	1,500.00
GORP Program	4,934.18	6,750.00
OTHER EXPENSES		
Credit Card Fee	4,360.05	1,200.00
Investment fees	1,638.70	1,000.00
Bank Service Charges	125.00	150.00
Prior Year Expense	900.84	0.00
Miscellaneous	21.50	200.00
Liability Insurance	0.00	1,200.00
Audit Expense	7,000.00	7,400.00
Tax Filing	1,200.00	1,000.00
TOTAL EXPENSES	262,878.90	220,969.00
NET OPERATING INCOME	(65,046.63)	3,251.00
Unrealized gain/loss	(118,150.34)	0.00
NET INCOME	(\$183,196.97)	\$3,251.00



GOVERNMENT AFFAIRS COMMITTEE REPORT

Dr. Padma Mukherjee, Chair

pmmukherjee[at]yahoo.com

MASO's Government affairs committee continues to work and support the needs of our members on Capitol Hill. The AAO advocacy conference was a success and was held on April 5 and 6 of 2022 in Washington DC. It was very well attended by MASO representatives and residents from various orthodontic programs. The program included presentations and training by AAO leaders and staff and included strategic discussions to advocate on behalf of AAO members by AAO members. The first day concluded with the opportunity to meet with a number of Congressmen and Congresswomen who support our cause and a reception. The next morning the AAO advocacy team continued to work and headed to Capitol Hill to make a difference on various critical issues but not limited to;

1. Health and safety concerns for our patients due to mail-order Orthodontics
2. Student loan and debt
3. Workforce shortages
4. Reforms in dental insurances

For members that attended the AAO advocacy conference, we hope you had the opportunity to appreciate the efforts and work that the AAO Advocacy team tirelessly does for its members. The MASO government affairs committee hopes that we can continue to work together on critical issues for our members and encourages members and residents to participate actively in AAO's advocacy efforts. ■

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MASO attendees to the Leadership Conference-left to right Dr. Luis Toro, Dr. David Harmon, Dr. Steven Siegel



You're Invited to the Spring CE Program

Friday, March 3, 2023

8:30 AM – 4:00 PM

Featured Speakers:

"Surgical Clinical Pearls"
Dr. Neal D. Kravitz

"Professional Growth and Accountability"
Dr. Neal D. Kravitz

*"The Reasons We Struggle to Keep Open
Bite Cases Closed"*
Dr. Jose Bosio

*"Interproximal Enamel Reduction –
When the 'Saw' Meets the Crystal"*
Dr. Jose Bosio

*"Efficient Management of Impactions
with the Isoglide Eruption Spring"*
Dr. Grant Coleman



**District of Columbia
Society of Orthodontists**
Dr. Jean Edouard Asmar
jeanasmar[at]aol.com

The DC component met for a luncheon at the MASO Annual Session in Philadelphia during the lunch hour on Friday, September 23, 2022.

It was wonderful to see so many friends, share a meal and have great discussions. ■



**New Jersey
Association of Orthodontists**
Dr. Michael Perillo
perilloortho@gmail.com

Greetings from the Garden State! After commencing our third meeting of the last cycle as an in-person event with Dr. Brandon Owen in April of 2022, we are proud to confirm a full slate of in-person meetings with the 2022-2023 schedule of events. A special thanks must go out to immediate Past President, **Dr. Jennifer Morrison**. Under her leadership, we successfully navigated through the pandemic as one of the most difficult times in our history, both personally and professionally. At the start of my Presidency, I am in a much better place due to **Dr. Morrison's** tireless efforts.

Dr. Sal Carcara, our Continuing Education Chair, continues to bring the best and brightest speakers to our great state! Our first event of the current cycle, occurred on October 28, 2022 brought Dr. Barry Glaser to New Jersey to speak on "Integrating Child and Teen Invisalign Treatment and Digital Workflow Into Your Daily Practice". It was a great in-person event and was the first the organization hosted in the meeting space at the New Jersey Dental Association. The second event in our series (also hosted at the NJDA site) will host Dr. Jonathan Nicozisis lecturing February 1,

2023 to our group on 'Invisalign in 2023 and Beyond'. Our third event, which will include a doctor and staff session, scheduled on May 5, 2023 at the National Conference Center in East Windsor, NJ. will be sponsored by Ormco with a speaker and topic series yet to be determined.

A special thank you to our New Jersey liaison, Dr. Miriam Furlong, for the Donated Orthodontic Services (DOS) program and her efforts to work with Jennifer Stocks at the AAO to match more needy individuals in NJ with providers willing to participate in the DOS program. The DOS program has been an essential part of New Jersey Orthodontics since its inception under the leadership of Dr. Barry Raphael which began as a statewide effort and evolved into a national program.

We will continue to address concerns of our constituents such as post-pandemic changes in our practices, implementation of the latest technologies in digital workflow and the difficulty in fulfilling staff positions in private practice. The great support from our new Vice President, Dr. Shalin Shah and Treasurer, Dr. Cassie Kahn will assist in these efforts going forward.

I look forward to a bright 2023 with great happiness and continued success! See you at the shore! ■



**Pennsylvania Association
of Orthodontists**
Dr. Jacob Orozco
jorozco77[at]gmail.com

The Pennsylvania Association of Orthodontists (PAO) Board Members met this past October at the Hotel Hershey in Hershey, PA. The newly elected Board members are:

President, Dr. Jacob Orozco; President Elect, Dr. Marian Wolford; Vice President, Dr. Brittany Franklin; Secretary, Dr. Dan Fishel; Treasurer, Dr. Anne O'Day; and Historian, Dr. Hugh Friel. The Board voted unanimously to elect Dr. Jeff Singer as Treasurer Emeritus for his longtime service, and he is therefore invited to attend all PAO board meetings in the future.

As we emerge from the pandemic, the PAO is shifting its focus to raise awareness about the benefits of the

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organization. With informational lunch and learns planned at the Pennsylvania residency programs, we hope to encourage a new generation of membership involvement and participation. Additionally, the PAO has plans to piggyback on the September 2023 MASO/GLAO meeting in Washington D.C. with a coordinated effort to engage with Pennsylvania orthodontists. Stay tuned and don't hesitate to reach out with any ideas.

A spring board meeting is planned for March 2023. The Hotel Hershey was again chosen due to its relatively central location.

I hope your 2023 is filled with same-day starts and good oral hygiene. I look forward to seeing you all this fall at the MASO/GLAO joint session. ■



**Puerto Rico
Society of Orthodontists**
Dr. Jimmarie Ramos
jimmarie[at]yahoo.com

Once again, we were very excited to celebrate our traditional bi-annual mini-Convention! The attendance was outstanding since it was not held during the summer of 2020 due to COVID restrictions. The meeting was held on August 19 to 21 at the Rincón Beach Resort located in our island's west coast. We had two dynamic speakers who delivered excellent presentations. Dr. Frances Herrero, a periodontist who practices in Puerto Rico, delivered a presentation titled, "Periodontal Conditions and Treatments for the Orthodontic Patients". Dr. Bart Iwasiuk, an Aligner Intensive Fellowship instructor and orthodontist with private practice in Ontario, lectured on treatment with clear aligners. His lecture was titled "Clincheck Pro 3D Controls: Setting Up Deep Bite and Class Two Cases".

The social side of our meeting cannot be ignored! We had a wonderful time meeting with other members and their families during the extracurricular activities in which the good food and good music kept us entertained! The entertainment began on Friday night with an outdoor welcome reception. On Saturday

night the fun continued with a delicious buffet dinner and dance party with music provided by an excellent trio of musicians. As is customary with our members, the dance floor was very busy. We are grateful for the corporate donations from Align Technology, American Orthodontics and 3M which helped reduce some of the expenses.

In October, we gathered again for our society's fall-educational course at the Embassy Hotel in Isla Verde. Our speaker was **Dr. Jean E. Asmar**, President of the District of Columbia Orthodontic Component with a private practice in Washington D.C. **Dr. Asmar** shared his knowledge about "Simplifying Complex Cases Using Removable Appliances and the Bi-Dimensional Technique". Following the lecture, we held our annual assembly and the election of the new Board. It is composed of: President- Dr. Bruni Ortiz, President-Elect- Dr. Eric Torres, Treasurer- Dr. Yaniris Figueroa, Secretary- Dr. Daniel Díaz, Director of Public Awareness- Dr. Andrea González and Director of Professional Education- Dr. Ambar Mier.

I am greatly indebted to all the past Board members for all their support, hard work, time and dedication for the benefit of our society (SEO) and its members. In addition, I want to extend my sincere thanks to **Dr. Luis Toro**, Dr. Jimmy De Jesús and Dr. Lynette García for their guidance and advice. ■



From left to right: Andrea González, Bruni Ortiz, José Morales, Jr., Jimmarie Ramos, Ambar Mier and Juan C. Vázquez



ALBERT EINSTEIN MEDICAL CENTER

Dr. Vanessa Morenzi
Vanessa.Morenzi@jefferson.edu

Resident Activities

Our third-year residents, **Drs. Mordechai (Mordy) Fried, Justin Middleberg, and Madeline Pitz** are doing quite well clinically, are completing their research projects, and have passed their PGY3 December Mock Boards evaluations. Our first-year residents, **Drs. Jessica Azer, Alison Novakovic, and Seung (Hannah) Yu** have acclimated admirably to their clinical and academic studies and are diligently working on their research projects.

Current Resident Research Projects

Dr. Justin Middleberg is conducting an “Investigation of Temporary Anchorage Device Use and its Predisposition to Failures”, in the Albert Einstein Medical Center patient population. The use of mini-implant and mini-screw retained expanders have increased in clinical use due to their potential to provide practitioners an opportunity to expand the maxilla post-peak growth. The goal of this study is to investigate the failures of TAD expanders at Albert Einstein Medical Center and understand the factors associated with some of these expansion devices failures. Consecutively treated patients will be evaluated retrospectively, and information will be gathered to evaluate which cases failed, which were successful, and if there are identifiable reasons for each, using descriptive statistics and frequency distributions.

Dr. Madeline Pitz is conducting an “Investigation into the use of micro-osteoperforations for accelerated orthodontic treatment”. She asserts that time and esthetics may be two of the reasons that adults are not as eager to begin their orthodontic treatment. With the adoption of clear aligner therapy, the esthetic concern has been remedied, but length of treatment can still cause patient fatigue. While corticotomy has been an available orthodontic treatment adjunct since the 1950s –it has not been a popular choice due to the high degree of invasiveness. Today, there are multiple minimally invasive surgically accelerated orthodontic modalities available for use. The goal of her study is to determine how much the length of treatment can decrease by incorporating the use of micro-osteoperforations into clinical care.

Dr. Mordechai (Mordy) Fried is conducting a study of the “Pediatric Sleep Disordered Breathing and Non-

Nutritive Sucking Habits” via questionnaire distribution and data analysis across all dental providers at Einstein (General Practice Residency program, Endodontic Residency program, Orthodontic Residency program and Dental Hygiene program). He states that there are several identified anatomical features in the orthodontic population that are associated with sleep disorders in the pediatric population. Also, as pediatric sleep questionnaires have become more common in all healthcare settings, he wanted to examine the prevalence of sleep disorders in orthodontic population in the Einstein Orthodontic Clinic and track the referrals resulting from sleep disorders identified by dental care providers to see if questionnaires should become more routine in orthodontic/dental evaluations. Further, the question of non-nutritive sucking habits, and their association with sleep disordered breathing will be evaluated. Future areas of interest would include the changes in sleep questionnaire responses from pre-orthodontic care through to post-orthodontic care within the pediatric population.

The current PGY1 residents, **Drs. Jessica Azer, Alison Novakovic and Hannah (Seung) Yu** are establishing a data base of information based on Einstein patients who have received CBCT studies in our Department. From this systematically assembled information they will be “Evaluating Effects of Palatal Expansion on Maxillary Sinus Dimensions via CBCT”.

Application, Interview and Match Process

Our program was very fortunate to see an increase in the number of applications submitted during this application cycle. We had a wonderful pool of candidates from which to choose to interview. The admissions committee was comprised of **Drs. Alan Borislav, Peter Greco, Vanessa Morenzi, Kathleen Pale, Michael Roth, Adam Weiss**, and the current residents. Our program offers its gratitude to each of them for their time, efforts, and dedication to this vital process. After our interviews, we matched with 3 superb incoming residents for the Class of 2026. They are **Dr. Ana Maria Gonzalez** who completed an AEGD at Texas A & M and is currently practicing in Texas; **Dr. Alexander Stanco** who completed an AEGD at the Winslow Indian Health Care Center through NYU Langone Hospitals and is currently practicing dentistry in Arizona; and **Dr. Nicoletta Venturini** who completed a GPR at NY-Presbyterian Brooklyn Methodist Hospital and is currently in private practice in Florida. We look forward to welcoming our new colleagues on June 23, 2023.

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Recent Graduate Activities

The November 2022 Scenario-based Certification examination given by the ABO saw all of our June 2022 graduates attain certification. We are pleased to announce that **Drs. Yee Seul Chun, Michael Kotecki, and Gannon Van Allen** are now Board Certified! Congratulations to them both for their accomplishments and to the ABO for their efforts to increase the ranks and numbers of specialty-trained, board-certified orthodontists providing care to the public.

Continuing Education

At the September 2022 Einstein Department of Dental Medicine Fall Grand Rounds, **Dr. Justin Middleberg** (PGY3 resident), presented an interdisciplinary case involving a female who had successful orthodontic treatment in our clinic. Five years after the patient completed her orthodontic care, she sought consultation for a darkening hue of the crown of a mandibular incisor. A diagnosis of internal resorption of this incisor initiated a lively discussion between the Department residents (endodontic, general practice and orthodontic) and the respective faculty members. The diagnosis and treatment planning for proper esthetics, phonetics, and function for the patient was discussed in terms of the need for continued endodontic treatment, the orthodontic and retention treatment, as well as future restorative needs.

At the December 2022 Department of Dental Medicine Winter Grand Rounds, **Dr. Mordy Fried**, PGY3 resident, presented on Diagnosis and Indications for Early Orthodontic Treatment for the General Dental Practitioner. His presentation was very well-received by the audience

of co-residents and faculty from the endodontic, general practice and orthodontics divisions.

Our interdisciplinary Department Grand Rounds are conducted on a quarterly basis and feature presentations from residents in the 3 residency programs. If you would like to attend any, or all, of our future Grand Rounds, please contact me. We would be pleased to have you join us.

Faculty Activities

We thank each of our volunteer and part-time faculty for their invaluable support and dedication to our program and for the education of our residents. Without the valued commitment of the part-time faculty, it would be nearly impossible to provide a quality educational experience. Program leadership is indebted to the many community-based clinicians who give of their time to teach and mentor our residents.

We are also indebted to our orthodontic colleagues - near and far- for reaching out to our program to offer educational opportunities, virtual seminars, webinars, and other educational support. These wonderful opportunities allow the residents to hear pre-eminent speakers. Please do not hesitate to reach out to me if you have additional ideas to enhance resident education.

All are welcome to come and visit us at Einstein Ortho... even virtually! We are celebrating the 102nd anniversary of the establishment of our Dental Department, and its dedicated service to our community. We are proud of our legacy and of the residents that we are educating today who will become tomorrow's clinical and professional leaders. ■



HOWARD UNIVERSITY

Dr. Kathy L. Marshall

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We congratulate those matched with the Howard Orthodontic Program for July 2023. We welcome:

Dr. Kaelon Guillory, from Louisiana
Mr. Eithan Lue Chee Lip, Trinidad and Tobago
Mr. Adem Mahmud, Pennsylvania
Ms. Tangwan Nganteh, Washington DC
Ms. CyVanie Ramkelawan, Louisiana
Dr. Racine Ramanand, New York

Howard University's Strategic Plan initiative "Howard Forward" has entered its construction phase with new buildings for the health sciences. The new Health Sciences

Complex will house the College of Medicine, College of Dentistry, College of Pharmacy and the College of Nursing and Allied Health Sciences. Clinical and Didactic systems have updated with a university migration to Canvas LMS. The Chadwick A. Boseman College of Fine Arts and the Office of Student Affairs celebrated Chadwick Boseman Day on Thursday, November 10.

Our Chief Resident, **Dr. Natasha Bharucha** and First Year Representative **Dr. Alana Martinez**, work as liaisons between the residents and administration.

Annually, the alumni association supports the graduating residents by offsetting the cost of the ABO Written Examination to ensure all Howard graduates continue to pursue ABO Board certification. We again thank the guest

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GRADUATE PROGRAM REPORTS

lecturers and alumni who contribute to the residents' education through the year. We truly appreciate you!

Faculty, Staff and Alumni updates:

We excitedly announce the addition of **Drs. Mohamed Masoud, Dr. Donald Russell** and **Bob Kumra** to the part time faculty.

Additionally, we congratulate the large number of ABO Board Certified Alumni and Faculty who have obtained initial and recertification this past year.

Wishing a prosperous New Year to all ■



RUTGERS SCHOOL OF DENTAL MEDICINE

Dr. Thomas Cangialosi
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It is my pleasure to announce that the following individuals have matched with our program to begin in July 2023: **Dr. Athena Fu** from Rutgers School of Dental Medicine, **Dr. Hyori Kim** from Boston University Goldman School of Dental Medicine, **Dr. Romyana Lazarova** from Columbia University College of Dental Medicine in New York, **Dr. Kellie Lee** from the University of California, Los Angeles (UCLA) and **Dr. Ashley Tran** from the University of

Texas Health Sciences Center, San Antonio. We are eagerly looking forward to have them join us in July. We currently have a recruitment out for a two day per week part time faculty member to supervise treatment in our PG. clinic and to help undergraduate students with screening patients for possible orthodontic treatment, which is a competency which they must attain before they graduate.

Our third year students are working feverishly to complete their thesis projects and cases for both our mock Board case based and scenario-based exams in preparation for graduation. Our clinic is busier now than ever because we have maintained some of the innovative aspects of scheduling which we used during the pandemic. ■



TEMPLE UNIVERSITY

Dr. Jeffrey H. Godel
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Happy New Year and a healthy and happy 2023 from the Temple University Kornberg School of Dentistry Department of Orthodontics. We are very excited regarding our astounding achievements during the last few months. To begin, we were able to have an in-person graduation celebration for the Class of 2022. The residents have all successfully spread their wings and left the nest. It is our belief that they will make meaningful contributions to our profession and their communities. They were: **Ashtyn Goodreau, Ashima Sharma, Michael Karp, Rebecca Avigael Lerman, Justyn Park** and **Sara Zadmehr**.

Meanwhile, the Class of 2023 is eagerly working to complete their MS degree and the work on their patients in anticipation of their graduation in August 2023. These young professionals are looking forward to their future as orthodontists and to carry on our wonderful profession.

They are: **Daniel Chenman, James Henderson, Michael Kirshblum, John Nuveen, Carolyn Serio** and **Caroline Terry**.

We welcomed the Class of 2024 in July and they have started their journey into the exciting world of orthodontics. They are: **Katie Alexander** and **Corey Moletsky** from University of Pittsburgh, **Nina Golojuch** from Rutgers University, **Jenna Herr** from University of Pennsylvania, **Amanda Noyek** from Nova Southeastern University and **Daniel Seebold** from University of North Carolina. They are looking forward to attend and meet all MASO members at the upcoming meetings and are enthusiastically preparing for the TWEED course next year in Arizona.

In addition, our residency program was overwhelmed with applications for the program this year. We invited 33 candidates for an interview and matched a group of 6 wonderful and diverse residents. They are: **Rayane Farah, Jessica Jye-Sy Ho, Daniel Markel, Matthew Wittstein, Jordyn Middleberg**, and **Hyangsepong Jo**.

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GRADUATE PROGRAM REPORTS

We are extremely thrilled and looking forward to the arrival of Class of 2025 in July 2023.

Our department continues to focus on innovation and technology. The Podray Clinic has two 3-D Printers and seven digital intraoral scanners. We take special pride in our strong clinical focus and advanced technology. Our residents are excited and looking forward to their continued engagement into digital orthodontics.

Finally, our department would like to express its appreciation to the outstanding group of adjunct faculty and alumni that helped make possible the graduation celebration for the Class of 2022. Their dedication and enthusiastic contributions to the education of our residents and is responsible for the success of our program.

We hope to see everyone at the 2023 AAO Annual Meeting in Chicago. ■



UNIVERSITY OF MARYLAND

Dr. Jose Bosio

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

I am excited to report on some of the highlights from UMSOD Orthodontics this last semester. So, let's jump right into it. On the residents' side, our 1st-year students (**Alicia Briscoe, Christina Grace, Tri Le, Steven Zinn**) began the program enjoying the heavy load of basic science and clinical courses. Although their clinical activity started at a slow pace, they now have been assigned nearly 50 new patients, with many more to come.

Our 2nd-year students (**Kevin Barnes, Lindsay Diaz, Vicente Telles da Silva, Emily Wu**) started developing their master thesis research projects. Dr. Telles has even submitted a grant to the AAOF to investigate the clincheck algorithms of clear aligner companies. This is a promising endeavor which may lead to other projects.

All 3rd-year residents (**Jeremy Dock, Sabrina Dorfmann, David Greene, Katie Garrett**) are focusing on finishing their master thesis research, and searching for places to work. Fortunately, they have many options on the table. They have all passed the ABO written examination and we are proud of them. David and Katie were invited by **Dr. Steven Siegel** to represent MASO and our institution during the AAO Winter Meeting at Caesars Palace in Las Vegas. We anticipate that they report back to their classmates on the theme of the meeting which is new technologies for in-house 3D printing.

During the month of October, we held our in-person UMSOD orthodontic interview process. There was

participation of many interviewers including **Drs. David Harmon, Fred Preis, Saul Burk, Dina Sanchez, Flavio Copello, Maria Doughan, David Greene**, all residents, and myself. We are pleased to report that our 2026 graduating class will consist of the following individuals: **Elisabeth Crowe** (Columbia U./23), **Jessica Jiang** (UMSOD/22), **Justin Mack** (Meharri/23), and **Iman Shirmohammadi** (UMSOD/23).

Our full-time faculty members pulled up their sleeves and got busy. **Dina Sanchez** started her leadership role as undergraduate program director, and promoted a series of positive changes. She redistributed some courses, and is planning more important changes for next year. **Flavio Copello** defended his PhD dissertation in July, became the director of the undergraduate course, ORTH538, and co-director of the Biomechanics course. He also submitted two grants in his first six months of work; one to AAOF to study Finite Elements, and another one to Colgate. **Maria Doughan** became the director of the Clerks program, co-director of the Biomechanics course, and created a new course to evaluate patients being treated for longer than the predicted time. **Eung Pae** has submitted one grant and continues teaching in a few courses.

Personally, I was busy reviewing manuscripts (11) for many journals, attending COSA online meetings, reviewing 85 abstracts for the 2023 AAO poster presentations, and reviewing 22 excellent manuscripts to help award the 2023 Hellman, Sicher and Graber awards. I also submitted two grants; one to AAOF as a Center Award, and another to Align Technology. I was honored to have four papers published (2 at the AJODO), and a book chapter on Digital Technology in Orthodontics. My lecturing commitments this semester included in person presentations to three local dental societies and one online international presentation. The management of the orthodontic program

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included an invigorating course on the “Business of Orthodontics” for the 3rd year residents. Indeed, these last six months have been a fun ride.

The chairman of our department, **Dr. Vineet Dhar**, has received numerous grants and has been promoted to Assistant Dean for Postgraduate Studies. He has also been lecturing globally on subjects related to pediatric dentistry.

Our part-time faculty also made us very proud. **Dr. Steven Siegel** continues to serve as AAO Trustee and working is on many different fronts. **Saul Burk** continues to grow the endowment fund he created in honor of Dr. Wanda Flinn, and has published a paper in the AJODO. He is also creating a theoretical/clinical course about interceptive orthodontics to be delivered during Spring/2023. **Dr. David Harmon** was inducted as MASO President and is planning the MASO Spring and Fall meetings. He continues to direct the soft tissue course for the ortho residents. **Viney Saini** became an ABO examiner, **Dr. Ty Saini**

is chair of the MASO Nominating Committee and an AAO delegate, **Dr. Scott Jenkins** continues to serve as officer of the Angle Society of Orthodontists, North Atlantic Component. **Dr. Chris Liang** continues serving on the MSDA and UMSOD Alumni boards, and as an AAO (delegate). **Farnaz Younessian** has finally joined our program as Clinical Instructor. **Byron Bonebreak, Monica Schneider, Jeff Jarvis, Gordon Groisser, and Steven Tigani** continue supporting our program with their clinical supervision. THANK YOU ALL.

On a sad note, we have unfortunately lost our faculty member and benefactor, **Edgard Sweren**, who was still teaching in our clinic at 93 years of age. Edgard was loved by everyone. Based on his long term commitment to our department and his generosity, our orthodontic clinic was named after him and his wife Betty. We will miss him.

We wish everyone a great year in 2023. ■



UNIVERSITY OF PENNSYLVANIA

Dr. Chun-Hsi Chung
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Our comprehensive clinic and didactic Orientation Program began on July 5, 2022 as we welcomed our new class of 2024.

26 Month Certificate Program

- **Dr. Vivian Chen**
- **Dr. Jiahul Li**
- **Dr. Min Kyung Shin**
- **Dr. Sara Steinbaum**
- **Dr. Jin Xu**
- **3-year MSOB/Ortho Program**
- **Dr. Victoria Hu**
- **Dr. Christie Shen**

5-year DScD/Ortho Program (Non-Match)

- **Dr. Jed Thussananutiyakul**

4-year Perio/Ortho Program

- **Dr. Jason Poon** (Entering Ortho July 2022)

This year our residents participated in the GORP Conference hosted by the University of Michigan, which took place in Ann Arbor, Michigan, on August 4 through August 7, 2022.

On August 26, the 2022 graduation ceremony for our postdoctoral certificate program in Orthodontics and Dentofacial Orthopedics, took place.

Orthodontic 26-Month Certificate Program

Dr. Nicholas Batastini
Dr. Stephanie Chen
Dr. Marie-Elena Cronin
Dr. Olivia Griswold
Dr. Jingyi Wang
Dr. Erica Weinberg

Three-Year Masters/Certificate Program

Dr. Grâce Lee

Perio/Ortho Certificate Program

Dr. Joseph Formosa

The Penn Dental Medicine and all post-doc programs participated in the CODA Site Visit, September 20-21, 2022.

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Our 69th J. Henry O'Hern annual Orthodontic Alumni Day 2022 Ortho Alumni Meeting was held in-person, Friday October 28, 2022.

- Union League of Philadelphia
- Speakers: Dr. Daniel Bills
- Lecture Title: Innovative Orthodontic Solutions: Work Smarter. Live Better.

The Penn Dental Postdoctoral Orthodontic Class 2025 has been selected and we are looking forward to welcoming our new residents this summer.

New residents enrolling July 2023:

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
Entering Ortho July 2023

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/>

Schedule of Virtual CE Courses for 2023

- January 9 – **Dr. Yanheng Zhou**
- February 6 – **Dr. Steven Wang**
- March 6 – **Dr. Monica Li**
- April 3 – **Dr. Helen Jeon**
- May 1 – **Dr. Arnold Malerman**
- June 5 – **Dr. Nipul Tanna**

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



UNIVERSITY OF PUERTO RICO

Dr. Jose Morales-Diaz
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The first semester of 2022-2023 academic year at the Orthodontic Graduate Program of the University of Puerto Rico has been productive and busy despite the challenges of this exceptional time. **Dr. Natalia Llaurador** and **Dr. Christina Cushman** (second year residents) took the ABO written examination and were successful. Last September our second year residents, **Dr. Nicolle Reyes** and **Nikaury Guzmán**, went to Sheboygan, Wisconsin to the American Orthodontics Resident Summit. They also traveled during summer to Tucson, Arizona to participate in The Tweed

Foundation Course. **Dr. Nicolle Reyes** successfully presented her thesis proposal entitled: "Comparison of the shear bond strength of a composite resin adhesive versus an expired composite resin adhesive to bond orthodontic stainless steel brackets". Our residents, **Dr. Samuel Ramos**, **María T. Rodriguez**, **Nikaury Guzman**, **Nicolle Reyes**, **Christina Cushman** and **Natalia Llaurador** lectured in grand rounds. The title of the presentation was "Treatment of skeletal discrepancies in non-growing patients using temporary anchorage devices (TADS)". The presentation was well received and reflected an outstanding effort. Our new chief resident for this academic semester will be **Dr. Christina Cushman**.

Finally, we are proud and excited to announce and welcome the incoming residents: **Dr. Clarimar Soto** and **Dr. Osmell González**. ■

Dr. Normand Boucher, Editor
Ms. Jane Treiber, MASO Executive Director
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Worthington, OH 43085



Join the Middle Atlantic Society of Orthodontists on 
To contribute material to MASO's Facebook page, please contact MASO at maso@assnoffices.com.

UPCOMING EVENTS



APRIL 22-25, 2023
AAO Annual Session
CHICAGO, IL



SEPTEMBER 21-23, 2023
MASO-GLAO Annual Session
NATIONAL HARBOR, MD



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



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