



Midwestern Society of Orthodontists

Electronic Newsletter Articles July 2019

A compilation of the news articles that were posted on the MSO web site in July 2019.

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MSO Components

IOWA

Suzanne Stock, President

Corey Conrad President-Elect

Nick Smith, Vice President

Clayton Parks, Secretary/ Treasurer

The 2018 ISO Annual Meeting was held at the Graduate Hotel in Iowa City on September 16-17, 2018. Sunday's session featured lectures on a variety of interesting topics from the University of Iowa faculty. Topics included early treatment, airway considerations, as well as other clinical pearls. Monday's sessions featured Dr. **Peter Ngan** who discussed *Early Timely Orthodontic Treatment: Is it Worth the Burden?*

The 2019 ISO Annual Meeting will be held Sunday and Monday, October 13-14, 2019. The Sunday session will occur at the University of Iowa College of Dentistry featuring Dr. **Tom Southard** and the residents and faculty of the Iowa Orthodontic Department. Monday's program will take place at the Graduate Hotel in Iowa City and will feature Dr. **Shane Langley** from South Alabama Orthodontics speaking on a variety of clinical topics.

In January 2019, the Iowa Dental Board began the process to enact rules that would define standards of practice for teledentistry. The AAO's Mr. **Trey Lawrence** attended the January Iowa Dental Board meeting to express the AAO's concerns with the draft and offered suggestions for improvement so that the proposed amendments would best protect the health and safety of Iowa's patients. The rules were then open for written public comment through May 15. The AAO, along with many of its Iowa members, sent the Board comments with ways in which the draft rules could be revised to ensure that teledentistry in Iowa would be carried out in the best and safest way for patients and practitioners. A public hearing for the proposed rules has been scheduled for Wednesday, July 24 at 2:00 pm in Des Moines, and all Iowa members are encouraged to attend. The AAO will continue to monitor and participate in the rulemaking process.

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ILLINOIS

For ISO news, check the news link at its website, www.isortho.org/News.aspx.

MANITOBA

Bobby Ward, President

Roger Moir, Secretary/Treasurer

Some of the recent highlights occurring in the Manitoba Orthodontic Society (MOS) are as following:

- The spring business meeting of the MOS was held on Thursday, April 25, 2019.
- Dr. **Fabio Pinheiro** will be become the new Director to the Midwestern Society of Orthodontists.
- The MOS website design group continue their efforts to finalize local designers who will create a local website.
- The President of the CAO will be attending the fall business meeting on October 3, 2009 to discuss Direct to the Consumer Orthodontics and other CAO issues.
- Starting in the year 2020, the MOS spring continuing education meeting will be held on the Friday a week prior to the AAO and our fall meeting will be held on a Thursday evening following Thanksgiving. This will allow our members to know dates of future meetings in advance and, hopefully, improve attendance.
- The Canadian Association of Orthodontics (CAO) 72nd Annual session will be held in Kelowna, BC from September 24-26, 2020.

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For MOS news, check the news link at its website, www.mbbbraces.com

MINNESOTA

James Haack, President

Estee Wang, President-elect

Heather Horton, Secretary/Treasurer

MAO had a successful Annual Winter Meeting on Friday, January 4, 2019. We tried a different location at the Envision Event Center in Oakdale, Minnesota and it was a great location with easier parking and shopping nearby. Thank you to Dr. **Cheryl Cermin** for putting together a wonderful doctors and team combined program. The Keynote speaker was **Rick Guidott**. He is a professional photographer in New York City who has changed his focus from high fashion models to people with albinism, Down Syndrome and other genetic conditions. He graciously gave each attendee a signed copy of his beautiful book, *Change How You See, See How You Change*. The afternoon speaker was Dr. **Kelly Wosnik**, a mental health specialist. She shared her perspective as a patient with cleidocranial dysplasia having undergone many years of dental and orthodontic treatments. Finally, we were honored to have Dr. **Brent Larson** share his journey as our AAO President. The next MAO Annual Session will be on Friday, January 10, 2020 at Envision Event Center in Oakdale. We will have Dr. **Ann Marie Gorczyca** present on variety of topics that will appeal to orthodontists and the whole team. We hope you will join us!



The MAO Board meets year-round to continue planning and addressing critical issues that affect our fellow members. Be sure to check our website, mnortho.org for membership information and updates on events. We thank Dr. **David Resch** for his time and support in developing and maintaining the MAO website. We would like to thank the current committee

members for their time and efforts in serving on behalf of our members. Dr. **Heather Carr** (Past-President, Program Committee and Nominating Committee), Dr. **Becky Maher** (Public and Professional Relations), Dr. **Chad Larson** (Membership Committee), Dr. **Greg Ross** (Dental Care Plans), Dr. **Deb Lien** (Legislative and Regulatory Affairs), Dr. **Alisa Madson** (Constitution and Bylaws), and Dr. **Rosemary Lelich** (Education Committee). We encourage members to contact the fellow board members with any concerns. We encourage you to consider serving on the Board. If so, please reach out to any of us.

Since the AAO's Consumer Awareness Program appears to be effective in reaching the targeted audience, the MAO Board decided to stop the AAO CAP match funding at the state level in September 2018. We will continue to share content on Facebook to promote AAO marketing messages. We encourage all members to share the AAO information on your social media to help educate the public about the importance of seeking care by an orthodontic specialist.

We would like to thank Dr. **Deb Lien** for providing her talents to support the AAOPAC for Minnesota. For our state, Deb currently serves on MAO Legislative and Regulatory Affairs Committee along with Drs. **Donna Stenberg** and **Heather Horton**. They have done an outstanding job on behalf of MAO tirelessly meeting with the Minnesota Board of Dentistry to approve changes for Licensed Dental Assistants expanded functions and permitted duties. We encourage our

specialist. We were fortunate to have the AAO legal counsel working with our state to help oversee the events at the dental board meetings.

On January 25, 2019 Dr. **Estee Wang** as our President-elect attended the AAO's Leadership Conference in Marco Island, Florida. On February 25, 2019, representing Minnesota were Drs. **Todd Thayer, Deb Lien, Nate VanLaecken** and **Brent Larson**. They took on the Hill in Washington D.C. at the AAO Professional Advocacy Conference, meeting with U.S. House of Representatives to advocate on various issues. We thank you for representing our state!



Congratulations to Dr. Brent and Cindy Larson for a successful year as AAO President! Along with Dr. John Kanyusik as Program Chair, the Planning Committee members, and AAO Headquarters team, the AAO Annual Session held May 3-7, 2019 in Los Angeles was outstanding!



MAO is proud to co-sponsor the MSO Annual Session from October 25-26, 2019 in Branson, Missouri. Please join us in congratulating our own, Dr. **Kevin Denis**, as MSO President. We invite you all to join us with your team and family for an excellent line up of speakers and fun!



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MISSOURI

John Firth, President

Jeffrey Cavanaugh, Secretary/Treasurer

Mike LaFerla, Past President

Our business meeting was held in Bloomington, Minnesota on September 21, 2018 during the Midwestern Society of Orthodontists Meeting. Dr. **Mike LaFerla** led the discussion.

The Leadership Conference was January 24, 2019 at Marco Island, Florida. Dr. **Mike LaFerla** attended the meeting.

The Missouri/Kansas combined meeting was a great success. 80 orthodontists were present for the Friday and Saturday lectures. Friday's session was held at the Boulevard Brewery with speakers Dr. **Kyle Fagala**, discussing marketing opportunities centered around social media and web-based marketing and the afternoon's speaker was Dr. **Mark Causey** with his story of starting a de novo practice and included how to improve case acceptance, team engagement and tips and tricks. The evening entertainment was the band *The Zeros*. Saturday morning **Doug Copple** of Bentson, Copple and Associates discussed market trends as well as orthodontic transition information. The Midwestern Society of Orthodontists Meeting held in Branson this fall was repeatedly included in the announcements. Dr. **Ryan Coleman** did a great job organizing the meeting.

At the Missouri meeting during lunch on Friday, Dr. **Neil Kanning** recommended that we discontinue the Missouri Orthodontic website because of minimal traffic and it was difficult to update information. **Kristi Burmeister** and Dr. Kanning are working on alternatives. There was also discussion on the viability of alternating the meeting between Kansas City and St. Louis and combining with Illinois.

Dr. **John Firth**, St. Louis, was voted as the next president of the Missouri Society of Orthodontists and began his term after the AAO Annual Session in May 2019.

The Annual AAO Annual Session in Los Angeles was well attended. Please look at the AAO member site to review actions that were taken at the House of Delegates.

2019 Midwestern Society of Orthodontists Annual Session will be held in Branson, Missouri!!!! This will be a great opportunity for you and your staff to attend. The dates are October 25-26 at the Hilton Hotel and Convention Center on the Branson Landing. Please make plans to attend today. See the Midwestern Society of Orthodontists' website for more information.

<http://www.msortho.org/>

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NORTH DAKOTA

Daniel Keith, President

Emerson Ehlis, Vice President

Jeremiah Danel, Secretary

In March, the North Dakota Society of Orthodontists, along with the South Dakota Society of Orthodontists, held their first joint meeting in Fargo. Dr. **Michael Ragan** of Dallas, Texas, gave a lecture entitled *Sagittal First: The New Movement in Orthodontics*. That was followed by both North Dakota and South Dakota holding their annual business meeting. This was the first gathering of ND orthodontists in many years and we were extremely pleased with the turnout as we had over 65 attendees including both orthodontists and team members. ND and SD will plan to continue joint meetings moving forward. New officers elected at this meeting include Dr. **Daniel Keith**, President, Dr. **Emerson Ehlis**, President-Elect and Dr. **Jeremiah Danel**, Treasurer.

2019 was a legislative year in North Dakota and the mid-level provider bill was defeated again. This has been defeated successfully in two previous sessions and an impressive turnout by the state dental community was seen again this year to lobby against this bill.

We are extremely proud to recognize our own Dr. **Ali Fallgatter** who is presently serving as the MSO President-elect and recently assumed the position of MSO Delegation Chair. We are looking forward to her meeting in Chicago in 2020!

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SOUTH DAKOTA

Ryan VanLaecken, President

Keri Barrow, Secretary/Treasurer

The South Dakota Society of Orthodontists met on Friday, March 29, 2019 in Fargo, North Dakota during the joint NDSO and SDSO CE meeting. Dr. **Brian Hohlen** was introduced as a new member. Brian practices in Sioux Falls, South Dakota at Crist & Wenande Orthodontics. AAO council reports were given by Dr. **Kevin Horner**. Dr. **Rick Fuchs** gave a report on the activities of the Foundation.

Other new members to the association are Dr. **Nate VanLaecken**, son of Dr. **Ryan VanLaecken**, and Dr. **Paul Meyer**, son of Dr. **Dave Meyer**. Nate will practice with his family at VanLaecken Orthodontics in multiple locations and Paul will practice with his father at Meyer Orthodontics in Brookings.

Currently, Dr. **Bruce Evans** and Dr. **Kevin Horner**, working with **Brittany Novotny**, attorney for the South Dakota State Board of Dentistry, are helping make changes to the Scope of Practice for dental assistants in South Dakota. After conversations with most SDSO members, the consensus was to redefine what duties dental assistants can perform under general supervision. The item most concerning for all members was whether to allow dental assistants to take digital records or impressions without the supervising doctor present. By allowing this, Direct to Consumer orthodontic aligner companies could easily set up scanning centers without a South Dakota licensed supervising dentist. The South Dakota State Board of Dentistry will meet on Friday, June 21, 2019 and will be discussing the changes proposed.

Lastly, Dr. **Ryan VanLaecken** of Watertown has agreed to serve as the new SDSO President.

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WISCONSIN

Chip Bird, President

Doug Barden, President-Elect

Todd Rash, Vice President

Todd Connell, Secretary/Treasurer

The WSO Fall Conference was held on Friday, April 12, 2019, at the Grand Geneva Resort in Lake Geneva. Our featured speaker was Dr. **L. Douglas Knight**. His presentation, *Diagnosis and Treatment of Dentoalveolar Discrepancies with Maxillary Zygomatic Anchorage and Dentoalveolar Distraction Osteogenesis*, was enjoyed by attendees.

In addition, the WSO members elected the 2019-2020 officers during the Business Meeting and Dr. **David Mentz** was recognized for his outstanding service to the society.



(Left to right: Drs. William Bird and David Mentz)

The WSO Fall Conference will be held on October 4, 2019, at the Wilderness Resort in Wisconsin Dells. Our featured speaker, Dr. **James Miller**, will present on case-based tactics in passive self-ligation, esthetics and the doctor/patient relationship. Please make plans to join us!

For more information, please contact the Wisconsin Society of Orthodontists at www.wisconsinsocietyoforthodontists.com or 920-560-5626 or fax 920-882-3655.

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Graduate School Programs

UNIVERSITY OF ILLINOIS - CHICAGO

Greetings from University of Illinois at Chicago (UIC)! We have exciting developments to share with our colleagues. In May 2019, an outstanding cohort of residents graduated from our program.



From Left to Right: Celebrating their graduation were Drs. Kan Tsunoda, Harrison Siu, Rutger Stache, Henna Abbasi, Maysaa Oubaidin, Zesheng Chen, Lauren Gordon, Nisha Garg, and Ben Youel.

Our new class of residents (Drs. **Raj Desai** - Columbia University, **Peter Durbin** - University of Michigan, **Matan Moshe Farhi** - UIC, **Jessica Hedger** - UIC, **Karen Homsy** - UIC, **Ruidan Ma** - University of Pacific, **Vivian Snider** - Columbia University, **Samim Taraji** - UIC, and **Michael Yang** - University of British Columbia) joined us on July 1!

After over 40 years of service, Dr. **Chester Handelman** will be retiring from clinical supervision activities. His contributions to adult orthodontics and interdisciplinary care focusing on periodontal health and TMJ disorders are immense.

After 57 years of service to UIC, Dr. **Andrew Haas** (Clinical Professor of Orthodontics) has decided to retire from his monthly teaching activities. His contributions to orthodontics and to UIC are immense. Several generations of orthodontists have been taught by Dr. Haas. He will be dearly missed by the UIC family. Please click on the link below for the piece that American Board of Orthodontics wrote about Dr. Haas.

<https://www.americanboardortho.com/about-abo/awards/wade-award-of-excellence-in-orthodontics/2017-wade-award/>



Dr. Haas

We are very thankful to our alumni and friends for their continued support to the UIC Department of Orthodontics. Our alumni and friends supported endowments that are enabling us to conduct high quality research. The Dr. Allan G. Brodie Craniofacial Endowment funds clinical and translational research to bring the most advanced 21st century technology, leadership and innovative science to the Brodie Institute and accelerate discovery that brings novel treatments and interventions to patients in Chicago and around the world. Our model of translational research is based on bioinformatics and to use massive repositories of clinical genetic data in order to identify patterns relevant to the delivery of clinical care. We are in the process of creating a named research center and establishing a state of the art 3D imaging lab to further our imprint in areas of big data analytics, clinical and translational orthodontics, and craniofacial growth and development. The 3D imaging lab will primarily serve departmental faculty and residents working on 3D research on topics such as sleep apnea/airway management; growth and development; surgical outcomes assessment; and CAD/CAM orthodontic appliances. The lab will enable us to implement digital technology in our curriculum, develop a comprehensive digital orthodontics course for our residents and also continuing education workshops covering diagnostics and treatment planning, multiple imaging acquisition technology, real-time simulation, virtual appliance construction monitoring and adjustment as well as overcoming obstacles in pre-programmed appliances, and assessment and evaluation of treatment outcomes.

With support of our alumni and friends, we are in the process of creating several resident scholarships. During this academic year, we created an Endowed Scholarship for our residents. This scholarship provides \$20,000 annually in tuition support.

Our alumni reception was held during the AAO Annual Session in May in Los Angeles. The event was very well attended and it was a great get-together of the UIC Orthodontics family. We are in the process of creating "Alumni-Resident mentorship program/rotation". We will be pairing our current residents with alumni to explore practice opportunities and learn more about practice management.



UIC Orthodontic faculty and residents at the AAO Meeting in Los Angeles

We have had a productive year doing high quality research. In the past academic year, our faculty members and residents published 31 articles in peer-reviewed journals and two book chapters. Several of our faculty members and residents presented at national meetings such as the AAO and AADR/IADR. We also obtained four grants to further research. Below are the details.

Department Peer Reviewed Publications (July 2018 to June 2019)

1. Morris R, Hoye L, Elnagar MH, Atsawasuwan P, Galang-Boquiren MTS, Caplin J, Viana G, Obrez A, Kusnoto A. Reliability of Dental Monitoring™ 3D Digital Dental Models Using Photo and Video Mode. Article in Press (AJODO).
2. Wible E, Agarwal M, Altun S, Ramir T, Viana G, Evans C, Lukic H, Megremis S, Atsawasuwan P. Long-term effects of various cleaning methods on polypropylene/ethylene copolymer retainer material. *Angle Orthod.* 2019 Jan 2. doi: 10.2319/060818-429.1.
3. Nation L, Sanchez FJC, Opperman N, Galang-Boquiren MT, Viana G, Kusnoto B. Vertical characteristics of posterior teeth in untreated malocclusions. *J World Fed Orthod.* (8) 2019:57-63.
4. Alwadei AH, Galang-Boquiren MTS, Kusnoto B, Costa Viana MG, Lin EY, Obrez A, Evans CA, Masoud AI. Computerized measurement of the location and value of the minimum sagittal linear dimension of the upper airway on reconstructed lateral cephalograms compared with 3-dimensional values. *Am J Orthod Dentofacial Orthop.* 2018 Dec;154(6):780-787.
5. Greene CS. "The Ball on the Hill": A new perspective on TMJ functional anatomy. *Orthod Craniofac Res.* 2018 Nov;21(4):170-174. doi: 10.1111/ocr.12245. Epub 2018 Oct 14.
6. Atsawasuwan P, Chen Y, Ganjawalla K, Kelling AL, Evans CA. Extracorporeal shockwave treatment impedes tooth movement in rats. *Head Face Med* 2018 Nov 12;14(1):24
7. Rinchuse DJ, Greene CS. Scoping review of systematic review abstracts about temporomandibular disorders: Comparison of search years 2004 and 2017. *Am J Orthod Dentofacial Orthop.* 2018 Jul;154(1):35-46.e9. doi: 10.1016/j.ajodo.2017.12.011.
8. Greene CS, Stockstill J, Rinchuse D, Kandasamy S. Orthodontics and temporomandibular disorders: a curriculum proposal for postgraduate programs. *Am J Orthod Dentofacial Orthop.* 2012 Jul;142(1):18-24. doi: 10.1016/j.ajodo.2012.02.022.

9. Nicholas CL, Kadavy K, Holton NE, Marshall T, Richter A, Southard T. Childhood body mass index is associated with early dental development and eruption in a longitudinal sample from the Iowa Facial Growth Study. *Am J Orthod Dentofacial Orthop.* 2018 Jul;154(1):72-81.
10. Butaric, LN, Maddux, SD, Nicholas, CL, Evteev, A. 2018. Ontogenetic processes in the nasal cavity among Alaskan Inuits: Implications for respiratory adaptations in cold-dry environments. *Am J Phys Anthropol.* 168S: 33.
11. Nicholas CL, Thalji, G, Richter, A. 2018. Childhood obesity and accelerated timing of dental maturation: A review. *Forensic Anthropology.* 1: 170-179.
12. Wible E, Agarwal M, Altun S, Ramir T, Viana G, Evans C, Lukic H, Megremis S, Atsawasuan P. Long-term effects of different cleaning methods on copolyester retainer properties. *Angle Orthod.* 2018 Aug 3. doi: 10.2319/010218-2.1. [Epub ahead of print]
13. Mostafiz W, Carley DW, Viana G, Ma S, Dalci O, Darendeliler MA, Evans CA, Kusnoto B, Masoud A, Galang-Boquiren T. Changes in sleep and airway variables in obstructive sleep apnea patients after mandibular advancement splint treatment. Featured Article in *AJODO* – April 2019.
14. Katsaros T, Allareddy V, Elangovan S. Dental Students' Exposure to Periodontal and Implant Placement Surgeries in U.S. Dental Schools. *J Dent Educ.* 2019 May 13;. doi: 10.21815/JDE.019.090. [Epub ahead of print] PubMed PMID: 31085689.
15. Allareddy V, Rengasamy Venugopalan S, Nalliah RP, Caplin JL, Lee MK, Allareddy V. Orthodontics in the era of big data analytics. *Orthod Craniofac Res.* 2019 May;22 Suppl 1:8-13. doi: 10.1111/ocr.12279. PubMed PMID: 31074158.
16. Rengasamy Venugopalan S, Farrow E, Sanchez-Lara PA, Yen S, Lypka M, Jiang S, Allareddy V. A novel nonsense substitution identified in the AMIGO2 gene in an Occulo-Auriculo-Vertebral spectrum patient. *Orthod Craniofac Res.* 2019 May;22 Suppl 1:163-167. doi: 10.1111/ocr.12259. PubMed PMID: 31074142.
17. Robb K, Badheka A, Wang T, Rampa S, Allareddy V, Allareddy V. Use of extracorporeal membrane oxygenation and associated outcomes in children hospitalized for sepsis in the United States: A large population-based study. *PLoS One.* 2019;14(4):e0215730. doi: 10.1371/journal.pone.0215730. eCollection 2019. PubMed PMID: 31026292; PubMed Central PMCID: PMC6485643.
18. Marchini L, Allareddy V. Epidemiology of facial fractures among older adults: A retrospective analysis of a nationwide emergency department database. *Dent Traumatol.* 2019 Apr;35(2):109-114. doi: 10.1111/edt.12459. Epub 2019 Jan 20. PubMed PMID: 30548143.
19. Rampa S, Wilson FA, Tak HJ, Roy S, Wani RJ, Markiewicz MR, Allareddy V. Patient Characteristics and Causes of Facial Fractures in the State of California. *J Oral Maxillofac Surg.* 2019 Mar 30;. doi: 10.1016/j.joms.2019.03.035. [Epub ahead of print] PubMed PMID: 31028736.
20. Louscher BM, Allareddy V, Elangovan S. Predictors of Citations of Systematic Reviews in Oral Implantology: A Cross-Sectional Bibliometric Analysis. *SAGE open.* 2019 March; :1-8. doi: 10.1177/2158244019835941.
21. Castillo JC, Gianneschi G, Azer D, Manosudprasit A, Haghi A, Bansal N, Allareddy V, Masoud MI. The relationship between 3D dentofacial photogrammetry measurements and traditional cephalometric measurements. *Angle Orthod.* 2019 Mar;89(2):275-283. doi: 10.2319/120317-825.1. PubMed PMID: 30779676.

22. Finn SC, Silver MT, Canary B, Kantarci A, Allareddy V, Katebi N, Masoud MI. A modified Steiner's analysis that does not require radiographic exposure of the cranial base. *Orthod Craniofac Res*. 2019 Feb;22(1):1-8. doi: 10.1111/ocr.12250. Epub 2018 Dec 6. PubMed PMID: 30365248.
23. Cutrera A, Allareddy V, Azami N, Nanda R, Uribe F. Is Short Root Anomaly (SRA) a risk factor for increased external apical root resorption in orthodontic patients? A retrospective case control study using cone beam computerized tomography. *Orthod Craniofac Res*. 2019 Feb;22(1):32-37. doi: 10.1111/ocr.12254. Epub 2018 Dec 13. PubMed PMID: 30451366.
24. Abramowicz S, Allareddy V, Lee MK, Nalliah RP, Rampa S, Allareddy V. Hospital-Based Emergency Department Visits With Pediatric Burns: Characteristics and Outcomes. *Pediatr Emerg Care*. 2019 Jan 7;. doi: 10.1097/PEC.0000000000001699. [Epub ahead of print] PubMed PMID: 30624417.
25. McCluskey CK, Allareddy V, Rampa S, Allareddy V, Rotta AT. Characterization of Suicide and Deliberate Self-Harm Among Children in the United States. *Clin Pediatr (Phila)*. 2019 Jan;58(1):66-72. doi: 10.1177/0009922818806313. Epub 2018 Oct 19. PubMed PMID: 30338709.
26. Nalliah RP, Shroff D, Stein K, Chandrasekaran S, Rampa S, Allareddy V, Allareddy V. Opioid Abuse and Dependence in Those Hospitalized Due to Head and Neck Cancer. *J Oral Maxillofac Surg*. 2018 Dec;76(12):2525-2531. doi: 10.1016/j.joms.2018.06.010. Epub 2018 Jun 12. PubMed PMID: 30509393.
27. Allareddy V, Wang T, Rampa S, Caplin J, Nalliah R, Badheka A, Allareddy V. Prevalence and predictors of *C. difficile* infections in hospitalized patients with major surgical procedures in the USA: Analysis using traditional and machine learning methods. *Am J Surg*. 2018 Dec 1;PubMed PMID: 30528819.
28. Badheka A, Bangalore Prakash P, Allareddy V, Allareddy V. Retrospective study of haemophagocytic syndrome hospitalisations in children in the USA. *BMJ Paediatr Open*. 2018;2(1):e000337. PubMed PMID: 30498794; PubMed Central PMCID: PMC6242022.
29. Shroff D, Nalliah RP, Allareddy V, Chandrasekaran S, Stein K, Rampa S, Allareddy V. Opioid abuse/dependence among those hospitalized due to periapical abscess. *J Investig Clin Dent*. 2018 Nov;9(4):e12354. PubMed PMID: 30066389.
30. Ukwuoma OI, Allareddy V, Allareddy V, Rampa S, Rose JA, Shein SL, Rotta AT. Trends in Head Computed Tomography Utilization in Children Presenting to Emergency Departments After Traumatic Head Injury. *Pediatr Emerg Care*. 2018 Sep 25; PubMed PMID: 30256318.
31. Wang T, Allareddy V, Rampa S, Allareddy V. Interpretable Patient Mortality Prediction with Multi-value Rule Sets. [revised 2018 July]. [Other]. 2018 July. Other: arXiv:1807.03633v2.

Book Chapters

1. Phimon Atsawasawan and Sajjad Shirazi (November 5th 2018). *Advances in Orthodontic Tooth Movement: Gene Therapy and Molecular Biology Aspect* [Working Title], IntechOpen, DOI: 10.5772/intechopen.80287. Available from: <https://www.intechopen.com/online-first/advances-in-orthodontic-tooth-movement-gene-therapy-and-molecular-biology-aspect/>.
2. Galang-Boquiren M.T.S., Kusnoto B., Zheng Z., Pan X. (2019) Dose Adjustments for Accuracy: Ultralow Dose Radiation 3D CBCT for Dental and Orthodontic Application. In: Kadioglu O., Currier C. (eds) *Craniofacial 3D Imaging*. Springer, Cham

Department Presentations at National Meetings (July 2018 to June 2019)

1. Atsawasuwan P. MicroRNA and target gene expression profiles during osteoblast/clast differentiation and tooth movement. Oral presentation at 48th Annual Meeting of AADR/97th General Session & Exhibition of the IADR. Vancouver, BC, Canada. June 2019.
2. Atsawasuwan P. Evaluation of Parameters of Mandibles with Different Craniofacial Skeletal Patterns using Three-dimensional Radiographs. Presented at the Eastern component of the Edward H. Angle society of Orthodontists in Toronto, Canada on April 10-14th
3. Atsawasuwan P. A novel approach to predict cervical vertebra and midpalatal suture maturation. Oral presentation at the AAO annual meeting in Los Angeles, CA on May 4-7th
4. Caplin J. Average Acid Etching Times Prior to Orthodontic Bonding Utilizing Different Etching Protocols. Poster presentation at the AAO annual meeting in Los Angeles, CA on May 4-7th
5. Nicholas C. Childhood obesity, oral inflammation, and dental eruption: Using molecular biomarkers to inform orthodontics. Invited talk at 44th Annual International Conference on Craniofacial Research (“Moyers Pre-Symposium”).
6. Chester Handelman. - American Association of Orthodontists Annual Session – Los Angeles. Transverse Constriction of Both Arches in Adults and Correction by Nonsurgical Expansion.
7. Elnagar M. Evaluation of dentofacial transverse widths in growing and adult individuals with an average facial pattern. Poster presentation at the AAO annual meeting in Los Angeles, CA on May 4-7th.
8. Allareddy V - American Association of Orthodontists Annual Session – Los Angeles. Outcomes Following Non Surgical Treatment of Severe Class II Division I Malocclusions: Results from the Pilot Practice Based Research Network Study (May 2019).
9. Allareddy V, Venugopalan SR, Nalliah RP, Allareddy V. Machine learning approaches in Dentistry: A SWOT analysis. 48th Annual Meeting of AADR/97th General Session & Exhibition of the IADR. Vancouver, BC, Canada. June 2019.
10. Karhade D, Allareddy V. Deep learning approach for predicting 5-year survival of oral squamous cell carcinoma patients. 48th Annual Meeting of AADR/97th General Session & Exhibition of the IADR. Vancouver, BC, Canada. June 2019.
11. Allareddy V, Rampa S, Nalliah R, Wang T, Allareddy V. 1288: Prevalence, Predictors and outcomes of adverse drug events in surgical cohorts in the United States. Quality & Patient Safety VI, 48th Critical Care Congress February 17-20, 2019 San Diego, California, USA.
12. Allareddy V, Wang T, Caplin J, Badheka A, Nalliah R, Rampa S, Allareddy V. 1364: Use of a novel machine learning approach to identify high risk groups for In-hospital mortality. Quality & Patient Safety XV. 48th Critical Care Congress February 17-20, 2019 San Diego, California, USA.
13. Badheka A, Rampa S, Wang T, Nalliah RP, Caplin J, Allareddy V, Allareddy V. 1669: Neonatal infections in hospitals: Nationwide prevalence and outcomes. Sepsis Pediatrics I, 48th Critical Care Congress February 17-20, 2019 San Diego, California, USA.
14. Allareddy V, Wang T, Rampa S, Badheka A, Nalliah R, Caplin J, Allareddy V. 316: Novel machine learning approach to predict Clostridium difficile infections in U.S. Surgical cohorts. Epidemiology I, 48th Critical Care Congress February 17-20, 2019 San Diego, California, USA.
15. Allareddy V, Badheka A, Wang T, Nalliah R, Rampa S, Allareddy V. 832: Profile and outcomes of hospitalized adults who refuse treatment in the United States. Patient and Family Support I, 48th Critical Care Congress February 17-20, 2019 San Diego, California, USA.

16. Allareddy V. COAST 2018 Innovators' Workshop on Personalized and Precision Orthodontics. Key note talk - Data mining for Clinical Outcomes Research (September 2018).
17. Sinha G, Viana G, Galang-Boquiren MT. "Fostering Interprofessional Collaboration in an Advanced Dental Education Program" 2019 American Dental Education Association (ADEA) Annual Session & Exhibition. Chicago, IL
18. Stache R, Prasad B, Viana G, Galang-Boquiren MT. "Oral Appliance and Pharmacologic Agents in Treatment of Sleep Apnea" Sleep 2019 - 33rd Annual Meeting of the Associated Professional Sleep Societies. San Antonio, TX

International Invited Talks by UIC Faculty Members (July 2018 to June 2019):

1. Dr. Tsay was invited as a speaker at the Annual Meeting of Mongolian Association of Orthodontists, September 1,2, 2018; A speaker at 2018 Sino-US Forum of Orthodontics, October 25, 26, 2018, Nanjing, China; and as a speaker at a continuing education course entitled " Esthetic Practice and Considerations in Orthodontic Treatment", Stomatologic Hospital of Guangzhou Medical University, China (December 2018).
2. Dr. Tsay gave a 2-day course titled *Facial Esthetics and Orthodontic Diagnosis, Treatment Planning, and Treatment Technique* to the orthodontic residents, faculty, and area orthodontists at School of Stomatology, Guangzhou Medical University, Guangzhou, China, in November 2018.
3. Dr. Tsay gave a 5-day continuing course: *Objective Based Orthodontic Technique (O.B.O.T.)* at Ulaan Baatur, Mongolia (September 2018).
4. Dr. Galang-Boquiren gave a talk titled *Updates in Dental Sleep Medicine for the Orthodontist* at the 10th Association of Philippine Orthodontists Regional Congress, Bohol, Philippines.

Grants Obtained by UIC Department of Orthodontics (July 2018 to June 2019):

1. Biomedical Research Award of the American Association of Orthodontists Foundation (PI: Phimon Atsawasuwan. A Novel Nanoparticle Delivery System of microRNAs for Orthodontic Purposes). This proposal was awarded the Fred F. Schudy Memorial Research Award.
2. Orthodontic Faculty Development Fellowship Award of the American Association of Orthodontists Foundation (PI: Mohammed H. Elnagar. Implementation of Dental Remote Monitoring). This proposal was awarded the Robert M. Ricketts Sunflower Orthodontics Fellowship Award.
3. Research Aid Award of the American Association of Orthodontists Foundation (PI: Shayna Azoulay-Avinoam, Project Mentor: Sath Allareddy. Novel Machine Learning Approach to Examine Surgical Outcomes in Patients with Craniosynostosis). The goal of this project is to use novel machine learning approaches to discern patterns in outcomes following surgical repairs of craniosynostosis and to build predictive models. We will use findings from the proposed study to build Machine Learning Algorithms that can be trained to be used in real world prospective clinical data with a continuous feedback loop to improve quality of care in patients with craniosynostosis surgical corrections.
4. NIH/NIDCR - 1U19DE028717 (Specialty Node Director: Sath Allareddy, PI: Gregg Gilbert - UAB), "The National Dental PBRN Administrative and Resource Center". The National Dental PBRN is a national collaborative of practices and organizations across the United States that engages practitioners in the excitement of discovery for the benefit of everyday clinical practice and patients. Project Period: 2019 to 2026.

Several of our faculty members were selected to serve in key roles in organized dentistry activities

Regional and National Appointments (July 2018 to June 2019):

Dr. Therese Galang has been appointed to the following -

- **Trustee**, Illinois Society of Orthodontists
- **Secretary-Treasurer**, Illinois Sleep Society
- **Scientific Committee appointment**, American Academy of Dental Sleep Medicine

Dr. Jennifer Caplin was elected as the **Editor** of the AAO Society of Educators.

Dr. Sath Allareddy was selected to serve on the following:

- The American Association of Orthodontists Foundation Planning and Awards Review Committee (PARC) for a three-year term.
- Chair the “Big Data Task Force” of the American Association of Orthodontists.
- “National Director of Specialty Engagement” of the National Dental Practice Based Research Network (Study funded by NIH/NIDCR) for a 7 year period (April 2019 to March 2026).

Remembering Dr. Arshad Mohammed:

We are extremely saddened to report the demise of our resident, **Dr. Arshad Mohammed**, who died in a tragic car accident on March 28 at the age of 32 years. He was extremely well-liked by everyone here at UIC. Last spring, prior to dental school commencement, Arshad received the Dr. Alan C. Peterson Scholarship. The scholarship is named for the late Dr. Alan C. Peterson, who graduated from the College in 1973. The criteria for the scholarship call for the recipient to exemplify compassion, dedication, and excellence in a clinical setting. We believe that everyone who knew Arshad would agree that he fulfilled these qualities and showed compassion and respect for his patients, fellow students and residents, faculty, staff, administrators, and friends. Arshad’s passing has been very painful for everyone who knew him. We can only imagine the thousands of lives he would have touched as a healing member of the dental profession.



UIC Orthodontics Bow-Tie Day – in memory of Dr. Arshad Mohammed



Dr. Arshad Mohammed receiving the Dr. Alan C. Peterson Scholarship award from Dr. Susan Rowan

Dr. **James J. Baldwin**, part-time Clinical Professor of Orthodontics who retired in 2014, passed away on January 31 at the age of 93. Dr. Baldwin had taught at the College for 15 years, specializing in biomechanics. He was a pioneer in the development of the segmented arch technique. Dr. Baldwin also taught at the Indiana University Dental School.



Dr. James Baldwin

I am very thankful to our residents, faculty, staff, alumni, and friends for fostering a culture of excellence at UIC!

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UNIVERSITY OF IOWA

The University of Iowa is very excited to announce the arrival of the incoming class of the Orthodontic Residency program, 2019-2021. They include Dr. **Mitchell Hemann** (University of Minnesota), Dr. **Samantha Marti** (Marquette University), Dr. **Megan Utter** (University of Michigan), Dr. **John Welk** (University of Nebraska) and Dr. **Andrew Welling** (University of Iowa). We look forward to welcoming them into the orthodontic family!

We welcomed new staff member, **Sue Wollrab**, in February, as Primary Administrative Assistant. Sue has been employed at the University of Iowa for 29 years, coming from the Department of Education. Sue brings experience with grad students, coursework, and a wide range of Administrative Assistant skills she's learned over the past few decades.

We are proud to announce the outstanding graduating Orthodontic Class of 2019! Dr. **Eric Bell** will be practicing near St. Paul, Minnesota; Dr. **Kirsten Frazier** is joining Rose Orthodontics, Bourbonnais, Illinois; Dr. **Paul Hechler** will be joining Hechler Orthodontics, Overland Park, Kansas; Dr. **Tom Welk** will be at Hollevoet Orthodontics, Bismarck, North Dakota; and Dr. **Clint Wire** will be practicing at Owen and Timock Orthodontics, Fort Collins, Colorado. We wish them the very best success in their new endeavors.



Eric Bell, Clint Wire, Kirsten Frazier, Tom Welk, Paul Hechler

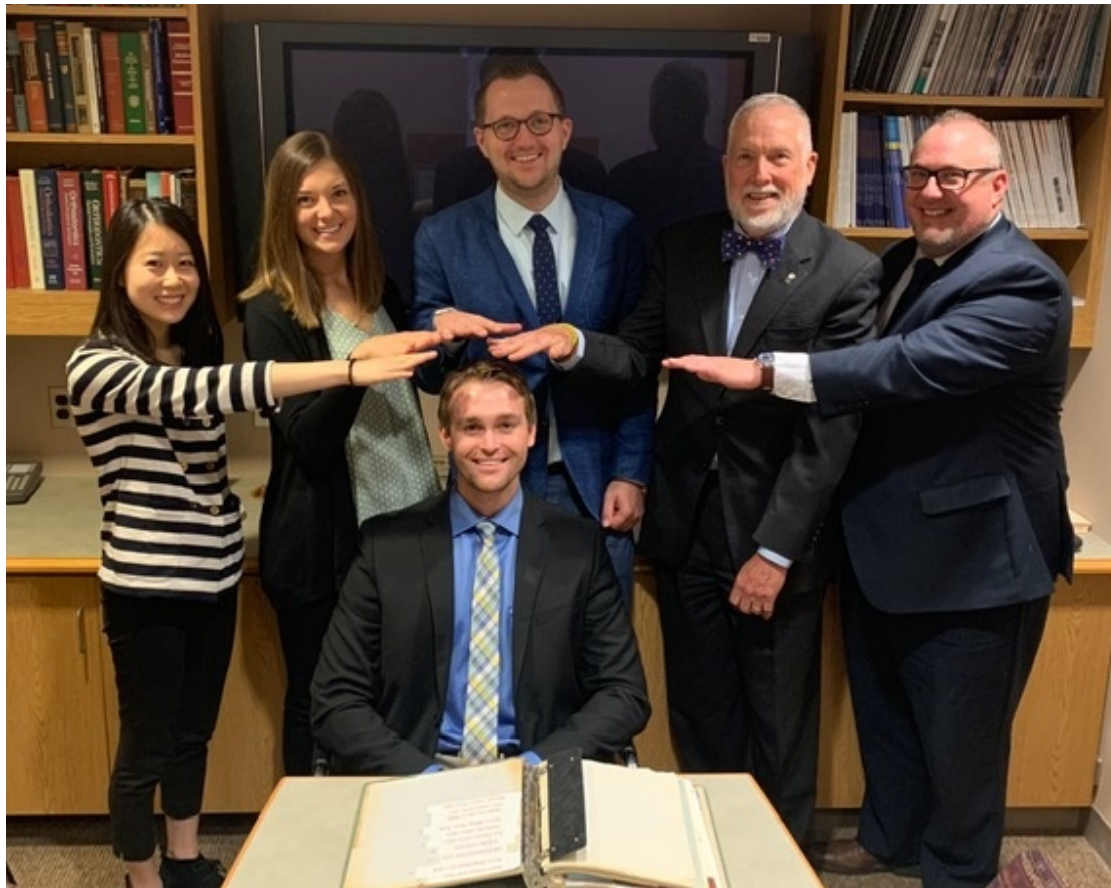
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MAYO CLINIC

The end of the 2019 Academic year brings us to another successful transition in Orthodontic education here at Mayo Clinic.

We welcome Dr. **Michael Tewes** and his wife, **Shelby**. They arrived in June and are ready to begin their new lives here in Rochester, Minnesota. Shelby will be starting in her position at Mayo as an R.N. in the Outpatient Procedure Center. Michael, a recent graduate of Creighton University Dental School, officially begins his 36-month graduate residency in orthodontics on the first of July. Dr. Tewes is looking forward to GORP in Saint Louis later in the month.



The transfer of Orthodontic Knowledge - Dr. Tewes signing in the book of Mayo
L to R: Drs. Chu, Jewell, Tewes, Meyer, Volz and Rasmussen

Dr. **Paul Meyer** completed the defense of his master's thesis earlier this spring. His thesis was entitled, *Comparison of Cranial Base and Soft Tissue Landmarks in Diagnosing Anterior - Posterior Jaw Position*. He presented his clinical research findings at this year's Mayo Clinic Dental Reviews and at the Annual Session of the American Association of Orthodontists in Los Angeles. He also presented three of his completed cases at the ABO Student Case Display during the Annual session. He and Dr. **Chad Rasmussen** have recently submitted an article to the *Journal of Oral and Maxillofacial Surgery* based on his graduate research.



Dr. Meyer's presentation of his clinical research at the AAO Annual Meeting 2019, Los Angeles.

Dr. Meyer and his wife, **Rachel**, will be heading to Brookings, South Dakota. Paul will be joining his father, **David**, in his orthodontic practice at Meyer Orthodontics. His father is also a Mayo Orthodontic Program Alumnus. We wish them well in their new endeavor.

Dr. **Lesley Chu** will become our newest chief resident and is well prepared to assume the duties and responsibilities of chief resident on July 1. Dr. Chu successfully completed the written portion of the ABO Board Certification Process this past spring. During this upcoming year she will be finishing her cases for evaluation, completing her research project and defending her Master's thesis in the spring of 2020. Dr. Chu will also be preparing for her Comprehensive Examination to be taken in November.

Dr. **Abby Jewell** has completed her first year and is looking forward to attending the Tweed Course in September. She has selected her research topic, completed her protocol and has assembled her thesis committee. Dr. Jewell is looking forward to taking on the duties and responsibilities of a second year resident.

We are also proud to announce that Dr. **Chad Rasmussen** recently completed the clinical portion of his orthodontic boards and is now board certified by the American Board of Orthodontics, effective July 1, 2019.

We want to thank all of our alumni who attended our Mayo Clinic Alumni Brunch this year at the AAO Annual Session in Los Angeles. This is always a special event that is able to reunite former residents, faculty and staff that share in our common Mayo heritage. Thank you all for your continued support of the future of our graduate program here at Mayo. We look forward to the meeting next year in Atlanta.



L to R: Drs. Thomas Rose, Arnie Hill, Deborah Lien, Tom Hartsock, Howard Sather, Lance Albechtsen, Lisa Howard and Gregory Lamansky.

Dr. **Pat Foley** visited our program in May to share with our residents the new clinical board certification format. This was a great presentation and provided a comprehensive overview of the process, enabling us to add material to our present curriculum that will help our residents prepare for this new examination process. We thank Dr. Foley for the time he spent in preparation for this seminar and, additionally, taking the time from his busy schedule to travel to Mayo to share this material with our residents.



L to R: Drs. Volz, Rasmussen, Foley, Jewell, Meyer, Chu, Mr. Michael Lee and Dr. Regennitter

This year after a long winter in Rochester, we look forward to a wonderful summer. We wish you all well. If any of you happen to be in the area, do not hesitate to stop by Mayo 4-West. We would love to see you!

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UNIVERSITY OF MISSOURI - KANSAS CITY

As we move into the summer of 2019, UMKC Advanced Education and Dentofacial Orthopedics is slowly moving forward after the previous Chairperson and Program Director left for another school. In July we will be accepting our new residents, Drs. **Patrick Grady** (University of Texas, San Antonio Dental School), **Megan Klein** (University of Nebraska Dental School) and **Grant Severs**, (Southern Illinois University Dental School) and we are looking forward to them joining our family. Dr. **Amin Neishaboory**, a recent graduate from University of Manitoba, Advanced Education in Orthodontics Program, will be joining our faculty this summer. His responsibilities will be mainly with the predoctoral orthodontic program. We are anxiously waiting for his arrival.

The previous class had their graduation in December 2019, now have joined the world of private practice. Dr. **Brad Chun** in Honolulu, (poor Brad, how he must suffer!), Dr. **Alicia Griffin** in Arlington Texas, Dr. **Kevin Kaiser** in the South Saint Louis, Missouri area. Dr. Kaiser and Dr. Griffin returned for their first alumni association meeting in March of 2019 (We wonder why Dr. Chun did not return?).

All the current residents, Drs. **Mary Becker, Kaylee Bergman, Laura Moore, Burt Kawamoto, Collin Schlosser**, and Dr. **Kendall Tada** all attended the AAO Annual Session in Los Angeles, and even spent a significant amount of time at the convention attending the presentations and touring the exhibits.

Drs. **Mary Becker, Kaylee Bergman** and **Laura Moore** took their written exam for the ABO and all were rewarded with passing due to a lot of work and guidance from Dr. **Thikriat Al-Jewair**.

The Clinical Adjunct Faculty members, Drs. **Brad Smith, Dustin Burleson, Jeff Thompson, Kurt Hoffman, Scott Hamilton, Don Wilson, Gena Henderson, Dan Ranjbar, Mike Klein, Steve Malmstrom**, and **Steve Billings**, have given of their time and expertise in assisting with the residents education and are greatly appreciated. Drs. **Mike Klein** and **Frank Crist** were honored at the annual alumni meeting as "Orthodontists of the Year" for serving as the interim Co-Program Directors before Dr. Al-Jewair arrived. We really appreciate their volunteering to serve the program in our time of need. Thanks to all of the Clinical Adjunct Faculty for their time and expertise.

Dr. **Vesna Ferrer** participated in a poster presentation at the IADR meeting presenting the results of her research project to date: Ferrer V-LF, Iwasaki LR, Van Ness C, Nickel J, Rengasamy Venugopalan S, Osborne J, Gadbury-Amyot C (2019). Consensus on topics necessary for clinical skills development in orthodontics. *J Dent Res* 98A:0744.

She has spent a significant amount of time compiling data concerning the information presented to the pre-doctoral dental students to hopefully standardize information presented. We are very proud her accomplishments and to try to standardize information presented in the dental school's curriculum.

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UNIVERSITY OF NEBRASKA

Alumni, faculty and residents of the UNMC College of Dentistry Orthodontic Residency Program attended the American Association of Orthodontics Annual Session in Los Angeles on May 2-7, 2019. The reception was at the JW Marriott L.A. Live.





Three new residents – Drs. **Lynna Van Merkey**, **Ehsan Mostaghni** and **Anna Schoettger** – started at UNMC on July 1, 2019. Merkey completed dental school at the University of Oklahoma, Mostaghni comes to UNMC after dental school at the University of Michigan and Schoettger is continuing her



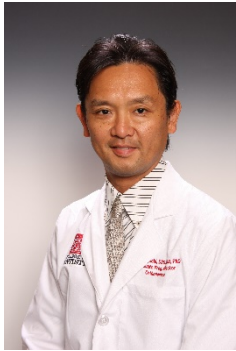
EHSAN MOSTAGHNI



ANNA SCHOETTGER



LYNNA VAN



Dr. **Amri Azeez**, a native of Sri Lanka, completed his year-long fellowship with the Orthodontic Program at the UNMC College of Dentistry. He now plans to give back to his home country as he seeks to be board certified as an orthodontist and then be appointed as an orthodontist in the National Health service of Sri Lanka

Dr. Azeez is from Colombo, Sri Lanka. He received his Bachelor's Degree in Dental Surgery from the University of Peradeniya in Sri Lanka in 2008. He

completed his M.D. in Orthodontics at the University of Colombo in 2017, and he obtained the Member of Orthodontics (M. Orth.) from the Royal College of Surgeons of Edinburgh in 2017. In his examination, he was awarded the John McDonald (M. Orth.) medal for the most meritorious candidate from all international examinations for 2017.

Visiting scholar Dr. Amri Azeez (fourth from left) with UNMC Ortho residents. Pictured are, from left, Jesus Velasquez, Dr. Alaina Allen, Dr. Landon Peterson, Dr. Azeez, Dr. David Hamm and Dr. Jaykishan Patel.



During the 2019 Homecoming Weekend, on Friday, October 4, Dr. **Toru Deguchi** will be the guest speaker at a Continuing Education event at the UNMC College of Dentistry. His presentation is titled, *Histological, Biomechanical and Clinical Aspects of TADs*.

The course will cover the histological response of initial healing process of surrounding alveolar bone in mini-screws, the basic biomechanical aspects of the use of mini-screws as an orthodontic

Dr. Deguchi is an Associate Professor and Graduate Program Director in the Division of Orthodontics at the Ohio State University College of Dentistry. He completed his dental training at the Aichi-Gakuin University and received PhD at the Okayama University. He also had his orthodontic training at the Indiana University. He has been focusing his clinical interests in the field of temporary anchorage device (TADs), lingual orthodontics and interdisciplinary cases. He has been also engaged in the research field such as histomorphometric studies related to tooth movement and pain related studies. Dr. Deguchi is a Diplomate of American Board of Orthodontics and a member of the Midwest Angle Society. Dr. Deguchi has lectured as invited speaker at the European Orthodontic Society, American Association of Orthodontics and in other international meetings all around the world.

More information can found at <https://www.unmc.edu/dentistry/alumni/ortho.html>.

Awards, Honors and Appointments:

- **Prem Premaraj** serves as the 2019-20 President of the IADR/craniofacial biology group
- **Prem Premaraj** has been appointed as Vice-Chair, Department of Growth and Development, UNMC College of Dentistry
- **Prem Premaraj** has been appointed as Test Constructor, Dental Licensure Objective Structured Clinical Examination (DLOSCE), American Dental Association
- **Sheela Premaraj** serves as Secretary, ADEA Section of Orthodontics (ADEA/SOO)
- **Minnie Vishwanath** was awarded a faculty development fellowship by the AAOF

We love to hear from our alumni! Please send us your accomplishments, updated practice announcements, address changes and emails. Contact Office/Residency Program Associate **Joshua Russo** at Joshua.russo@unmc.edu or 402.472.4919, or mail your information to:

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SAINT LOUIS UNIVERSITY

Fourteen residents graduated in December of 2018. They have scattered across the U.S. and abroad and are expected to serve their patients and specialty admirably. They include Drs. **Evangelos Akli** (University of Athens), **Erin Allbritton** (Texas A&M College of Dentistry), **Kimberly Baptist** (Southern Illinois University), **Ross Brenner** (Indiana University), **Michelle Clinton** (University of Texas Health San Antonio), **Drew Colantino** (Harvard University), **Erin Fraundorf** (University of Louisville), **Nikoleta Konstantoni Panousopoulou** (University of Athens), **Catherine Loner** (University of Louisville), **Tony Nguyen** (Texas A&M College of Dentistry), **Brian Patterson** (The University of Texas at Houston), **Alexander Sy** (New York University), **Jessica Thai** (Virginia Commonwealth University), and **Brian Wilson** (University of Oklahoma).



Dr. **Eustaquio Araujo** received the Dale B. Wade Award of Excellence in Orthodontics, awarded by the American Board of Orthodontics, during the 2019 AAO Annual Session. Dr. **Brent Bankhead** transitioned from a part-time to full-time faculty member on January 1, 2019 and Dr. **Ki Beom Kim** has been appointed to Lysle E. Johnston Jr. Endowed Chair of Orthodontics, on June 24, 2019.

The Orthodontic Education and Research Foundation will hold its next meeting in St. Louis, Missouri, March 6-8, 2020. Many fine speakers will enlighten the audience. Contact mocalb@slu.edu for information on the meeting.

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AAO and Associated Entities

AMERICAN ASSOCIATION OF ORTHODONTISTS POLITICAL ACTION COMMITTEE (AAOPAC)

No Report.

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AMERICAN BOARD OF ORTHODONTICS (ABO)

Clinical Examination Update:

- The ABO conducted Clinical Examinations in February and September in 2018 and February 2019. A total of 449 orthodontists were certified/recertified at these examinations. A complete listing by examination and constituency can be found on the ABO website.
- The first Scenario-based Oral Clinical Examination was successfully administered in February 2019 with a 68% pass rate. Traditional Clinical Examinations were also offered by petition only in February 2019. June 2019 will mark the final time case-based examinations will occur.

Response to the new examination has been overwhelmingly positive. Overall, examinees shared that they were pleased at how well organized and professionally handled the examination details were administered. Feedback received included:

- “Overall, I appreciate the ABO’s commitment to strive for excellence and improvement and would recommend any orthodontist take the new exam. I truly feel I have become a better orthodontist because of it.”
- “You walk out of the exam feeling humbled and grateful for the time you guys spent investing in us and our profession.”
- “Overall, the experience was humbling, inspiring and educational!”

The next Scenario-based Oral Clinical Examination is scheduled for November 2019. The examination is full with a wait-list.

Registration for the 2020 exams opened on May 22, 2019. An additional examination has been added due to anticipated demand. Examinations will now be offered February, July and November 2020.

Study materials and online resources are available to assist in preparing for the Scenario-based Oral Clinical Examination including a Study Guide and Sample Cases (with questions and answers). Orthodontic programs interested in hosting case-based mock board exams are welcome to contact ABO examiners to request a school visit. ABO advocates are available to visit orthodontic programs if requested. Prep Courses to assist in preparing for the examination will be offered at various times throughout the year in collaboration with the College (CDABO).

Once board certification is achieved, Certification Renewal is required every 10 years to remain on an Active status and may be taken no earlier than two years prior to the expiration date on your certificate. There are two options to re-certify and travel to St. Louis is NOT required:

- Complete two online Board Case Exams as provided by the Board AND submit CE credits from online AJO-DO exams; or
- Submit one case treated by the examinee (see website for criteria) and submit CE credits from online AJO-DO examinations.

Please visit the ABO website for additional details on the any of the above.

Written Examination Update:

- The 2019 American Board of Orthodontics Written Examination was administered one day only on April 10, 2019 to 422 examinees at Pearson Vue Testing Centers throughout the United States and Canada. The reliability of the examination was 90% with a 96% pass rate. The next Written Examination will be offered on April 7, 2020. Eligible individuals may register for this exam beginning this fall. As a reminder, once the Written Examination is successfully completed, it never expires.

Educational Update:

- For additional insight into the development of the Scenario-based Oral Clinical Examination, please view this [Motion Graphic Video](#).
- As a reminder, items are available through the ABO educational toolkit for use by ABO certified orthodontists in promoting their certification achievement.
- All board certified orthodontists are strongly encouraged to reset their ABO password to access their personal dashboard on the new software. As a reminder, enhancements include enhanced orthodontist locator, ability to add professional head-shot to profile, ability to edit/add personal and practice information with unlimited offices, increased security, user specific dashboard notifications, make annual fee payments and view payment history, upload and track CE credits, print complimentary verification letter.

Educators Symposium:

- Department Chairs, Program Directors and ABO-appointed Advocates were invited to attend an Educator/Advocate Workshop held during the 2019 AAO Annual Session in Los Angeles. As a follow-up to last year's session, ABO directors presented updated results and feedback from the February 2019 Scenario-based Oral Clinical Examination, along with a review of preparation materials and how to prepare for the examination. Immediately following the workshop, an Open House/Information Session was held for those wanting to learn more about the examination. In small round-table forums, ABO directors personally reviewed the examination structure with attendees, answered questions and shared materials available to help them prepare.

The College:

- The College (CDABO) offered a Prep Course during the 2019 AAO Annual Session on how to prepare for the ABO Scenario-based Clinical Exam. Demand for the class was great with the class being sold out. Drs. **Peter Buschang**, **Allen Moffitt** and **Timothy Trulove** joined Dr. **Daniel Rejman** and other CDABO Councilors for the session. The College plans on offering similar prep courses at their upcoming summer meetings, future Annual Sessions and select constituency meetings. In addition, the College will also handle the administrative organization of the advocacy program to continue to reach out and encourage ABO certification at all orthodontic residency programs and ensure there is at least one advocate volunteer assigned at each program.

GORP:

- The ABO was represented at the 2018 GORP meeting by Dr. **Larry Tadlock** who shared his personal orthodontic journey with attending residents. Dr. **Nicholas Barone** will attend the 2019 GORP meeting in Los Angeles, CA.

ABO at 2019 AAO Annual Session:

- The ABO Directors for the 2019-2020 year are as follows:
Dr. **Nicholas Barone**, President, representing the Northeastern Society of Orthodontists
Dr. **Valmy Kulbersh**, President-Elect, representing the Great Lakes Association of Orthodontists
Dr. **David Sabott**, Secretary-Treasurer, representing the Rocky Mountain Society of Orthodontists
Dr. **Patrick Foley**, Director, representing the Midwestern Society of Orthodontists
Dr. **Timothy Trulove**, Director, representing the Southern Association of Orthodontists
Dr. **Jae Hyun Park**, Director, representing the Pacific Coast Society of Orthodontists
Dr. **Roberto Hernandez-Osini**, Director, representing the Middle Atlantic Society of Orthodontists
Dr. **Larry Tadlock**, Immediate Past-President, representing the Southwestern Society of Orthodontists
The AAO House of Delegates confirmed Dr. **Stephen McCullough** as the new ABO Director representing the Southwestern Society of Orthodontists.
- The ABO presented the following recognition awards during the 2019 AAO Annual Session meeting in Los Angeles:
 - Albert H. Ketcham Memorial Award: Dr. **Michael Riolo**
 - Dale B. Wade Award of Excellence in Orthodontics: Dr. **Eustaquio Araujo**
 - Earl E. and Wilma S. Shepard Distinguished Service Award: Dr. **Barry Briss**
 - O.B. Vaughan Special Recognition Award: Dr. **Garland Hershey**



COUNCIL ON COMMUNICATIONS (COC)

The Consumer Awareness Program (CAP) continued to crush our goals for FY2019. The program amassed over 1.2 billion impressions. This means that AAO ads were seen by users over 1.4 billion times. The COC set a goal of 5 million views for our newly redesigned website and had 7.3 million page views. During the past year, we reached over 100 million unique consumers and our ads have appeared in over 9.7 million search results for a variety of orthodontic topics.

As listed on the AAO members page: Digital marketing platforms currently being utilized by the Consumer Awareness Program include, but are not limited to

- Paid search (Google, Yahoo! and Bing)
- Website banner ads
- Social media outlets (Facebook, Instagram, Twitter, Snapchat)
- Online video
- Email marketing

The AAO's digital paid advertising is behaviorally targeted to individuals who are researching orthodontic treatment topics online. In addition, Search Engine Optimization (SEO) work is underway and is generating additional organic (unpaid) search traffic to the AAO consumer website, aaoinfo.org. We continue to reach consumers through a wide variety of digital platforms. This year, our ads appeared on Facebook/Instagram, Snapchat, Google search and display, YouTube, AdRoll and BuzzFeed.

Our website has become a trusted and key resource for online searches. Our consumer website was redesigned and relaunched during the fall of 2018. This redesign has greatly improved customer experience. This is measured via decreased bounce rates and an increase in time spent on the site and an increase in page views. We are constantly improving the site and adding new content to our blogs. These improvements have also led to an increase in organic (unpaid) visits to our site. Our Parents Guide to Orthodontics is a huge draw to our site, with consumers spending several minutes on the pages. In addition to our website, you may have seen some of our informational alerts. We recently put out a consumer alert on the dangers of using at home aligners. Our goal is to become "THE" source for orthodontic information online.

Why are visits to the website important? 90-95 percent of today's consumers conduct research online before making any purchase decision – including an investment in something like orthodontic treatment. The increase of traffic to our website tells us the CAP is successful at making the AAO more visible and easily found online; and more patients are being educated about the importance of seeing an orthodontist. With the robust amount of patient education materials on the consumer website, we want consumers to find it and learn the importance of seeing an orthodontist.

Did you know that 75% of all Americans perform online searches for healthcare related topics? Adult orthodontic patients often research long and hard before they embark on their treatment journey. They search not only for hard data but many search for reviews. Recent Google research indicates that some adults take years before they initiate treatment.

CAP stats in Canada

At the start of this year, the AAO initiated an intensive social media campaign in Canada, targeting parents and other adults and using the “That Feeling When...” video series. From January 1 - May 31, the CAP in Canada reached more than 7.3 million consumers and brought more than 342,000 to the AAO website. These results compare with Canadian results of 3.5 million and 21,000, respectively, for all of 2018.

Another goal of the Council on Communications is to better inform our members. We have not only redesigned our member website but have started to provide updates to our members via private orthodontic Facebook groups. Group administrators have graciously allowed us to share “breaking news” with our members, which allows us to reach many members quickly when needed. We continue to search for better ways to keep you informed. Please feel free to reach out to me directly with any questions or suggestions.

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COUNCIL ON ORTHODONTIC EDUCATION (COE)

CODA announced in May a change in the process for Submission of Self-Study Documents. In lieu of sending both a comprehensive paper and comprehensive electronic copy of a program's Self-Study to site visit teams and the Commission, CODA is asking Programs to submit their self-studies in the form of a: 1) a comprehensive electronic copy of the Self-Study (narrative along with exhibits, appendices, support documents, etc.); and 2) a paper copy of the **narrative portion only** of the Self-Study. This will alleviate the volume of paper work and printing costs from both the programs and the commission.

Earlier this year circulation of Proposed Revised Standards was initiated by CODA. All comments were due June 1, 2019 for consideration at the summer 2019 Commission meeting for Accreditation Standards for Advanced Dental Education Programs in Orthodontics and Dentofacial Orthopedics. These revisions include proposed changes in curriculum and program duration, Standard 4-3.4.

Also at its winter 2019 meeting, the Commission on Dental Accreditation directed that additional [proposed revisions of Orthodontic Accreditation Standards](#) be distributed to the communities of interest for review and comment, with all comments due December 1, 2019 for consideration at the winter 2020 Commission meeting. These revisions are related to Standards 2 and 3 and designed to improve contemporary teaching and learning. The first hearings on Proposed Orthodontic Accreditation Standards were held by CODA at the March 2019 American Dental Education Association (ADEA) Annual Meeting in Chicago, Illinois.

The 2019 Jeryl D. English Educational Leadership conference, held in conjunction with the AAO Annual Session in Los Angeles this past May, was a success and well attended. President **Kelton Stewart's** leadership team did an outstanding job in putting together a fantastic program for over 100 educators.

ABO directors were available to answer questions on Certification Renewal and the Scenario-based Oral Clinical Examination at the May AAO Annual Session in Los Angeles. They reported that the response to the new examination was positive. The next Scenario-based Oral Clinical Examination will be held in November 2019 and is currently full. Registration opened up on May 22, 2019, for the three examinations offered in 2020. The ABO Written Examination was administered April 10, 2019. Participants should have received the results.

The SOE website has a number of resources for educators. A recent podcast by Dr. **Padma Mukherjee**, SOE president-elect, discusses *Women as Educators in Orthodontics* with Dr. **Kate Vig**.

The Midwestern Society of Orthodontists' fall meeting is October 25-26 in Branson, Missouri. The Council on Orthodontic Education will host the University Chairs on

Saturday, October 26 from 8:30 to Noon. More information for chairs and program directors will be available this summer. Agenda items by the membership may be sent directly to me.

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COUNCIL ON ORTHODONTIC HEALTH CARE (COHC)

The Council on Orthodontic Health Care met on June 22, 2019 at AAO Headquarters. The meeting was chaired by Dr. **Kim Batterson**. An update from the board liaison, Dr. **Norm Nagle**, gave information on the AAO strategic plan, decision making and governance. The Council then discussed access to care, and the AAO's initiative into access to care. Discussion centered on expanding the reach of the program and how that could be accomplished. The Council forwarded its recommendation to the board for consideration.

A report on the ADA's Code Maintenance Committee (CMC) in March centered on a few minor changes to the CDT coding manual related to orthodontic codes. The AAO also had proposed a preamble for the orthodontic section of the CDT manual to further define orthodontic care, however that change was voted down by the CMC. The Council discussed ways to further that idea at next year's CMC meeting. The Council also discussed the ADA's request that AAO look at all of the orthodontic codes and review them as they have not been modified for a number of years.

A brief report from the American Association of Dental Consultants (AADC) meeting in May focused on trends that are being seen in dentistry and insurance industry. While many of the issues were not specific to orthodontics, payer issues and concerns, practice modalities, and other topics were discussed over the 3-day meeting. Outside of the scheduled lectures, there was discussion of how some insurance companies are considering direct payments to direct to consumer entities and the concerns of many insurance companies about that occurring.

COHC reviewed the revised medically necessary orthodontic guidelines that were passed by the HOD in May and will not make any recommended revisions at this time. We also heard reports from staff on COGA and COC activities.

In new business, the Ensuring Lasting Smiles Act (ELSA) that is proposed legislation in Washington for insurance companies covering all care related to craniofacial anomalies was discussed and applauded by the Council. There were also discussions of teledentistry and DSO's but no actions were taken by the Council related to those topics.

The Council also will be electing the new chair for the next year. Results of that will be announced during the January conference of COHC.

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COUNCIL ON NEW AND YOUNGER MEMBERS (CONYM)

The Council on New and Younger Members (CONYM) held its annual meeting on January 24, 2019, in Marco Island, Florida, as part of the AAO's Midwinter Meeting. In addition to reviewing the past year's activities and setting the agenda for the coming year, we also took part in the Leadership Development Conference, which ran concurrently with the CONYM meeting. Drs. **Tristy Felty** and **Daniel Keith** gave a presentation to the LDC attendees entitled *Intergenerational Leadership*. Following this, CONYM members served as roundtable moderators for further AAO discussion and interaction with our future association leaders. Plans for future involvement of CONYM at the LDC are currently underway.

At this year's Annual Session in Los Angeles, CONYM hosted the New Orthodontist & Resident Conference, which was followed up by the "Lunch with Leaders" in which residents and new and younger members were treated to a luncheon and positioned at tables with CONYM and BOT members to discuss the AAO, future involvement and relevant NYM issues. This was our most successful event to-date as we had a very large turnout to hear Dr. **Anil Idiculla** and Dr. **Neal Kravitz** speak on practice life, balance and pearls. These lectures were met with great enthusiasm and set the tone for a well-attended luncheon with the entirety of the AAO's Board of Trustees.

CONYM received high praise from members of the Board of Trustees regarding our liaison's interaction and involvement with the Board and we look forward to continued participation with the Board. Additionally, CONYM begins our third year as liaisons to the other councils and committees within the association and we look forward to collaborating and contributing.

Additional areas CONYM will be involved in during the upcoming AAO year include continued assessment and refinement of the mentorship program, non-renewal outreach on behalf of the AAO's membership department, and article publishing within the *e-Bulletin*.

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COUNCIL ON SCIENTIFIC AFFAIRS (COSA)

COSA held a meeting on May 3, 2019 at the AAO Annual Session. During the Annual Session, COSA members judged 39 Charley Schultz Resident Scholar presentations and 40 Table Clinic presentations. COSA members moderated 28 Oral Research presentations and the Hellman, Sicher, Graber lectures. 380 E-Posters were available for viewing during Annual Session.



The 2019 Charley Schultz Resident Scholar Award winners are:
From L to R:
Dr. Karanth, Dr. Azami, Dr. Crouch, Dr. Zhang, Dr. Borth, Dr. Lanier Zaytoun, Dr. Orabi, Dr. Larson

Basic Science Research

1st place: Dr. **Spencer Crouch** – University of Michigan; *Research titled: Local vs. systemic effects of TNAP on osteoblast differentiation and bone formation*

2nd place: Dr. **Niloufar Azami** – University of Connecticut; *Research titled: The effects of Raloxifene on bone remodeling and orthodontic relapse*

3rd place: Dr. **Divakar Karanth** – University of Kentucky; *Research titled: Developing and evaluating scaffold for alveolar bone regeneration*

Clinical Research

1st place: Dr. **Noha Orabi** – Case Western Reserve University; *Research titled: Pharyngeal airway volumetric changes after orthodontic extraction: a systematic review with meta-analysis*

2nd place: Dr. **Mary Lanier Zaytoun** – University of North Carolina - Chapel Hill; *Research titled: Machine learning algorithms: a new approach to the extraction decision*

3rd place (tie): Dr. **Mason Borth** – University of Texas - Houston; *Research titled: Impact of resin composite type on Invisalign attachment wear*

3rd place (tie): Dr. **Boshi Zhang** – University of California - Los Angeles; Research titled: *Objective and subjective airway improvement via treatment with maxillary skeletal expander*



The 2019 Joseph E. Johnson Clinical Award for Table Clinics winners are:

From L to R:
Dr. Lathrop, Dr. Roy,
Dr. Chartrand

Dr. **Hillary Lathrop** – University of North Carolina – Chapel Hill; Research title: *Orthognathic speech pathology: understanding how Class III jaw disharmonies influence speech*

Dr. **Annie Roy** – Université de Montréal; Research title: *Dental malocclusion among children with attention deficit and hyperactivity disorder (ADHD)*

Dr. **Daniel Chartrand** – Tri-Service Orthodontic Residency Program; Research title: *Change in mandibular incisor facial bone thickness following non-surgical Class II correction with a coil spring appliance*

Applications are being accepted for the 2020 Milo Hellman Research Award, the Harry Sicher Research Award and the Thomas M. Graber Awards of Special Merit. Applications for these awards can be found on the 2020 Annual Session website - <https://www.aaoinfo.org/meetings/event-page/annual-session-2020-atlanta-ga/hellman-sicher-graber-awards/>. Only the online application will be accepted for these awards. The application deadline is 6:00pm EDT on October 1, 2019.

COSA will be accepting online applications to present Oral Research, Table Clinics and E-Posters at the 2020 AAO Annual Session starting the first week of August 2019. The application deadline is 6:00pm EDT on October 15, 2019.

COSA will be accepting online applications for the AAO Resident Scholar Award (formerly known as the Charley Schultz Resident Scholar Award) presentations at the 2020 AAO Annual Session starting the first week of December 2019. The first forty residents who

apply for the program are accepted. The application deadline has been changed to 6:00pm EST on February 1, 2020.

The 2019-2020 members of COSA are:

Dr. **Onur Kadioglu**, chair (SWSO)

Dr. **Michael Duryea** (RMSO)

Dr. **James Mah** (PCSO)

Dr. **Steven Marshall** (MSO)

Dr. **J. Martin Palomo** (GLAO)

Dr. **Emile Rossouw** (NESO)

Dr. **Dina Stappert** (MASO)

Dr. **Eser Tufekci** (SAO)

Dr. **Rolf Behrents** (Trustee Liaison)

COSA's next meeting is January 10, 2020 via video conferencing. Please contact me if you have any questions or concerns that fall under the purview of COSA.

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