

# BONDS



## Dr. Steve Malmstrom Receives 2016 Orthodontic Teaching Award

*Above: Senior residents Drs. Whitney Hewitt, Andrew McDonald, and Steven Shaw nominated Dr. Steve Malmstrom as the 2016 Orthodontic Instructor of the Year.*

Every year the senior residents nominate a part-time instructor who has had a significant impact on their clinical experience at UMKC. Congratulations and thank you Dr. Malmstrom for your dedication and thoughtfulness in helping the residents strive for clinical excellence.



## Dr. Eladio DeLeon: 2017 UMKC Orthodontist of the Year

A 100+ crowd gathered together over lunch on Thursday, April 6, 2017, to honor Dr. Eladio DeLeon as UMKC Orthodontist of the Year. Dean Marsha Pyle reported to the gathering that the UMKC School of Dentistry takes great pride in the Orthodontic Department.

Dr. Eladio DeLeon received his DMD from the University of Kentucky in 1976 and completed his UMKC Orthodontic Certificate, as well as an MS degree in Oral Biology in 1985. He served in the U.S. Army Dental Corps from 1985 to 1998, with postings in Fort Wainwright, Alaska; Fort Gordon, Ga.; and Wuerzburg, Germany. Since 1998, Eladio has been a full-time faculty member of Georgia Regents University, serving as the Marvin C. Goldstein Chair of Orthodontics and director of the Orthodontic Residency Program. He has served in many executive positions with the American Board of Orthodontics, including president of the Board from 2015 to 2016.

Eladio and his wife Dottie have three children, Cara, Derek, and Christopher. Congratulations Eladio on being named as the UMKC Orthodontist of the Year!



**Dr. Rengasamy  
Venugopalan...  
a top reviewer for  
our journal!**

The American Journal of Orthodontics and Dentofacial Orthopedics recently cited UMKC Faculty Dr. Shankar Venugopalan as ranking amongst its top 10% of manuscript reviewers. Throughout the world, the journal seeks the help of 420 experts to review submitted manuscripts. Thank you Dr. Venugopalan for your outstanding service to the profession.

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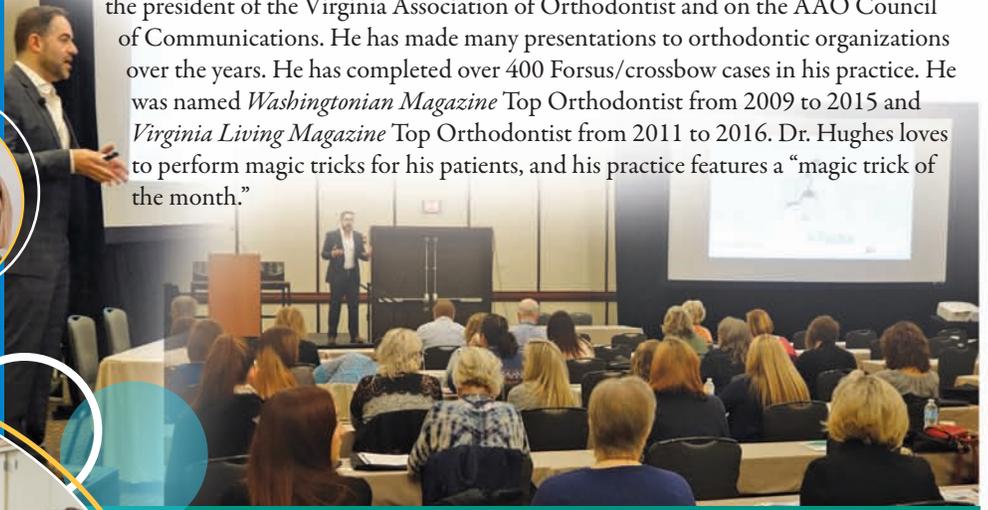


# 2017 Midwest Dental Conference Orthodontic Lectures

Over Thursday and Friday, April 6 and 7, more than 250 staff and orthodontists filled the orthodontic lecture halls at the Sheraton Crown Plaza to hear presentations. On Thursday morning, Dr. Adam Schulhof presented “**Driving Profitability with Esthetic Orthodontic Treatment.**” Dr. Schulhof has practices in both Northern New Jersey and New York City. A graduate of Columbia University, his treatment philosophy is to create beautiful smiles while using the latest technology and cosmetic appliances. He uses digital imaging, advanced computer graphics and other cutting-edge technologies to provide aesthetic solutions for his patients’ cosmetic orthodontic needs. He serves as a clinical instructor at several universities, and is currently working on a lingual orthodontic training program for orthodontic residents. Based on his expertise as a clinician and instructor, he is a member of 3M Unitek clinical advisory board.

Ms. Megan Arnold spoke to a joint doctor-staff audience on Thursday afternoon. Her lecture was titled “**Are We Doing Everything We Can To Prevent White Spot Lesions?**” Ms. Arnold is an innovative, effective leader with mastery level clinical experience and success in instruction for adult learners. She is a member of numerous professional organizations and has served as the president of the Minnesota Dental Hygienists’ Association. She serves as the professional services manager in the Division of Oral Care at 3M. She was an assistant professor at the University of Minnesota School of Dentistry and has clinically practiced in hospital dentistry, faculty practice, and in group and private practice settings. Her current emphasis is on team-based delivery models that provide patient-centered care.

On Friday morning, Dr. Herb Hughes presented doctors with clinical pearls. The title of his lecture was “**Faster Finishes, Clear Choices, Master the Magic.**” Dr. Hughes practices in Alexandria, Va. He joined his father in practice after graduating from his orthodontic residency at Boston University in 1986. He now practices with his son, Dr. Justin Hughes. He attended the University of Richmond and then Medical College of Virginia for dental school. Dr. Hughes has been very active in organized orthodontics and has served as the president of the Virginia Association of Orthodontist and on the AAO Council of Communications. He has made many presentations to orthodontic organizations over the years. He has completed over 400 Forsus/crossbow cases in his practice. He was named *Washingtonian Magazine* Top Orthodontist from 2009 to 2015 and *Virginia Living Magazine* Top Orthodontist from 2011 to 2016. Dr. Hughes loves to perform magic tricks for his patients, and his practice features a “magic trick of the month.”



## Thanks to the Orthodontic Department Support Staff

We are truly fortunate to have dedicated personnel who help make the clinic run smoothly!

Our clinic staff: (L-R): Cindy Brown (dental assistant), Shameal Trice (dental assistant), Aaron David (dental assistant), Michele Edwards (clinic administrator), Tonya Clemens (reception), Kia Reese (reception). We would be remiss not to let everyone know that we are very fortunate to have Mr. Aaron David join the clinic staff. He will be helping the residents on the clinic floor as our newest dental assistant. Welcome Aaron!

# 2017 Blackwell Lecture

## “Orthodontics in 3D: Lessons Learned and Mistakes Made” by Dr. Tung Nguyen

We were pleased that Dr. Tung Nguyen was able to come to Kansas City as our 2017 Blackwell Lecturer. Dr. Nguyen completed his dental training at Tufts University and received his Master’s Degree and Certificate in Orthodontics at the University of North Carolina. He completed the William R Proffit Teaching Fellowship before joining the faculty at the University of North Carolina. He is an associate professor and director of the Dentofacial Deformities Clinic. He received the BF and Helen Dewel Award for best clinical research from the American Journal of Orthodontics and Dentofacial Orthopedics in 2012 for his work on Class III bone anchors. Dr. Nguyen’s research interests focus on 3D imaging and craniofacial orthopedics.

Dr. Laura Iwasaki, Leo Rogers Chair of UMKC Orthodontics and Dentofacial Orthopedics, introduced Dr. Nguyen before the start of the morning lecture.

Residents and alumni enjoyed Dr. Nguyen’s engaging presentation, which focused on a number of topics related to 3D treatment planning and outcomes assessment. The past two decades have seen a tremendous increase in the introduction of technology into the field of orthodontics. Rapid advancements and decreasing production cost for computer hardware and software technology, CAD-CAM appliances, 3D imaging and skeletal anchorage have made it possible to incorporate these technology into clinical practice. However, the basic questions remain, “what is really useful, what is not, and what is best for the patient?” Dr. Nguyen highlighted current available technology, showed clinical cases using the technology, and critically examined the data regarding their effectiveness.



Dr. Tung Nguyen



## UMKC Orthodontic Golf Champions 2016

It was a beautiful October Tuesday evening for the annual Thompson Cup Tournament. All participants gathered at the Top Golf of Overland Park facility on Nall Avenue to display their “skill.” Some 25 floggers formed four teams, and the stage was set for all to swing away to grab the Thompson Cup. The format was different from last year, where accuracy and precision played a major role in deciding the outcome. Drs. Eric Johnson and Mike Klein displayed their “money-ball” approach to racking up points. But in the end, Team “Dead-Eye on the Ball” won the Thompson Cup through the prowess of (above, R-L): Ryan Coleman, Kurt Hoffman, Kevin Kaiser, Andy Eichholtz and Laura Iwasaki. Hope to see an even larger turn-out next year.

## ...and get prepared for our 2018 Blackwell Lecture:

## Cranio-maxillofacial Surgery in the World of Virtual Planning

Mark your calendars for June 8, 2018. Michael Lypka, DDS, MD, will be our Blackwell Speaker!

Dr. Lypka is a board certified plastic surgeon and oral and maxillofacial surgeon. He graduated from dental school at the University of Saskatchewan in Canada in 2000. He went on to complete an MD-integrated oral and maxillofacial surgery program at the University of Southern California in 2006. He then completed a plastic and reconstructive surgery residency at Methodist Hospital in Houston in 2009. Finally in 2010, he finished a one-year fellowship at Children’s Hospital Los Angeles in pediatric plastic and craniofacial surgery. Dr. Lypka now works full time at Children’s Mercy Hospital in Kansas City. He has an appointment at UMKC School of Medical and in the Orthodontic Department at the UMKC School of Dentistry. He focuses his efforts on cranio-maxillofacial reconstruction.



Dr. Michael Lypka



# Philanthropic Support for UMKC Takes Many Forms

Through the auspices of the Dr. Roy J. Rinehart Memorial Foundation, accounts have been formed to aid the mission of UMKC Orthodontics. The UMKC Orthodontic Alumni Board believes it's important that you know how your dollars are spent. The following are brief histories and current balances of accounts used by UMKC Orthodontics. We hope you will be pleased with the updates and give again. Please use the donor card included to make your next contribution to UMKC Orthodontics.

## The Department Discretionary Fund (\$25,731)

The funds from this account support the daily activities of the department. This includes the purchasing of equipment such as printer/scanners, the patient sign-in station, the graduation dinner, alumni reception at AAO, off-setting costs of travel by residents to meetings and speakers to our program, and subsidizing educational activities of staff.

## The Orthodontic Investment Fund (\$515,174)

This fund is directed by the Executive Board of the Kansas City Orthodontic Support and Research Foundation. Monies accrued through alumni dues and profits from the Midwest Orthodontic Alumni Meeting are used to support a variety of endeavors associated with the UMKC Graduate Orthodontics Program. This fund also makes an annual contribution to the Department Discretionary Fund.

## Dr. Don Thompson Endowed Professorship (\$1,055,596)

As you are probably aware, there is an extreme shortage of orthodontic educators, and UMKC is no exception to this crisis. As a result of your generosity, we have established the Dr. Don Thompson Endowed Professorship. Our goal is to increase the fund to the level of Chair, approximately \$1,500,000. The interest from this fund will support a much-needed full-time faculty salary line in the Department of Orthodontics and Dentofacial Orthopedics similar to the Leo A. Rogers Endowed Chair currently held by Dr. Laura Iwasaki.

## Dr. Eric J. Schweitzer Memorial Fund (\$17,366)

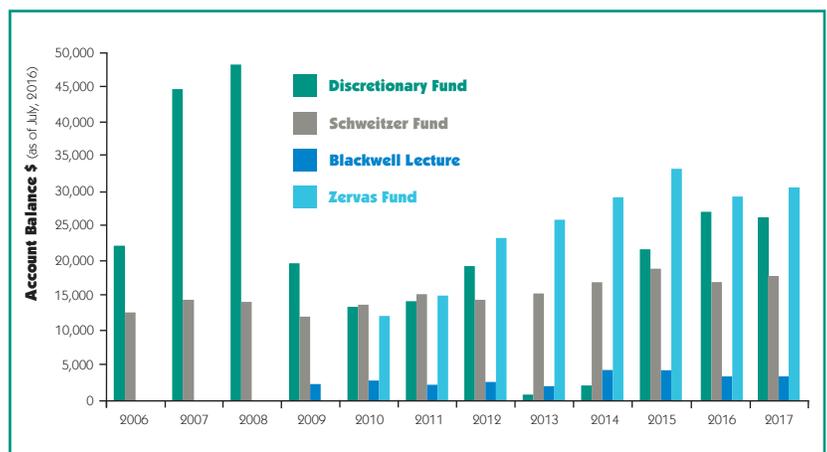
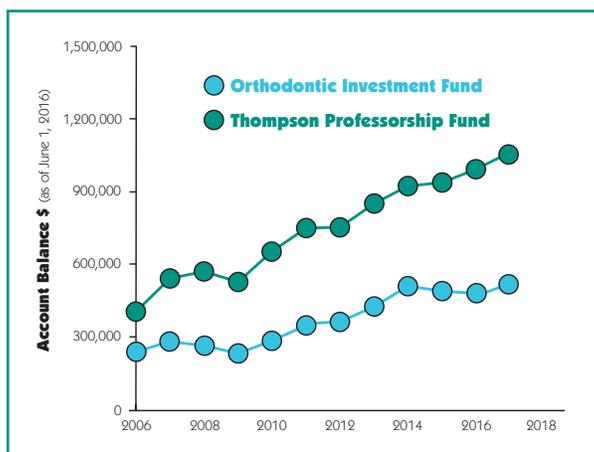
Each year, the UMKC Graduate Orthodontics Program organizes the Dr. Eric J. Schweitzer (1992) Memorial Symposium. The symposium invites recent orthodontic graduates to return to UMKC to make presentations to current orthodontic residents. The benefactors of the Schweitzer Memorial Symposium make it possible for our students to hear orthodontic practitioners speak frankly about the joys and the difficulties they have encountered while embarking their careers. The Memorial Fund generates income to offset symposium costs.

## Dr. Dan Blackwell Lecture Series Fund (\$3,404)

When Dr. Dan Blackwell retired from active teaching at UMKC, a lecture series in his name was created to honor his commitment to UMKC orthodontics.

## Dr. Sperry Zervas Orthodontic Scholarship (\$29,848)

This fund was started in 2009 by the Zervas family to memorialize Dr. Sperry Zervas (Ort '68). The interest from this fund will be used annually to support senior residents' travel to the AAO meetings.



# Your Charitable Legacy

As we confront the challenges of the future, we know that the generosity of those who assist UMKC Orthodontics, through the Rinehart Foundation, will make all the difference in our success. That is why we seek your support in a very special way.

Charitable or educational organizations can often play an important role when setting up your estate plan. Providing support for UMKC Department of Orthodontics, through a planned gift to the Rinehart Foundation, helps with our long-term commitment to orthodontic education and research and may also provide tax and/or financial benefits to you and your family. For example, with a specific bequest in your will or trust, you can designate a dollar amount or a percentage bequest of your estate to be distributed to a particular fund of the Rinehart Foundation that supports UMKC Orthodontics. A beneficiary designation on your life insurance policy or IRA can also be a very simple way to show your future support.

Some donors also choose to help us in one additional and important way. That is, they let us know that they have included a gift provision to UMKC Orthodontics in their estate plan. They know their provisions will be kept confidential and they can change them at anytime should their personal circumstances change. The Rinehart Foundation respects each donor's right to privacy and/or anonymity. But, letting others know that you've made a planned gift can influence other UMKC alumni or friends who may also want to make a planned gift of their own someday.

We hope you will consider making a planned gift to make a difference at UMKC Orthodontics. We would be pleased to share some ideas and confer with you in your planning. Most of all, we would appreciate having the opportunity to express our gratitude to you for creating such a special gift.

If you would like to learn more about how you can make part of your estate a lasting legacy at UMKC's School of Dentistry or if you'd like more information on additional ways to give, including taking advantage of the tax benefits of an IRA Rollover if you are over 70 ½, please, contact Hilary Wheat, director of Development, School of Dentistry, at 816-235-2173. Or, you can simply write your request on the response card included with the UMKC BONDS Newsletter. We can help you and your advisors plan a gift for tomorrow that will help our future residents as well as you and your family.



*Orthodontic Residents (L-R) Drs. Brad Chun, Mark Greenburg, Kevin Kaiser, Alicia Griffin, Andrew Eichholz, and Kelcey Loveland are thankful for the help that they receive from alumni. Through alumni donations, the residents are able to attend orthodontic meetings.*

## A Big THANK YOU to UMKC Orthodontic Alumni

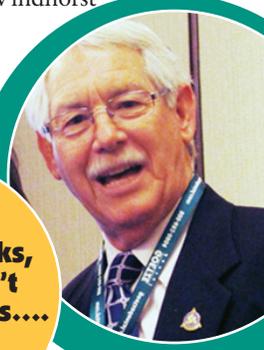
Many thanks to all our alums who have paid their 2017 Association Dues. Each contribution is directed to supporting the UMKC Orthodontic Program. If you have not paid your 2017 dues, please consider doing so.

Michael Barlow  
Richard Beckwith  
Steve Billings  
John Bogue  
Blake Borello  
Dennis Brenkert  
Jason Burkhard  
Steve Cain  
Glenn Casey  
Jerry Cash  
Tara Cash  
Michael Cassidy  
Jeff Cavanaugh  
Stephen B. Clark  
Jonathan Cooper  
Stephen Darmitzel  
Eldino Deleon  
Dean Dyer  
Vance Dykhouse  
Baxter Edwin Johnson  
Jeryl D. English  
Benjamin Frandsen  
Larissa Freytag  
Michael Gardner  
Craig Gerken  
Barton Girdwood  
Bart Goldsberry  
Henry Hammer  
Gena Hendricks

Jodi Hentscher-Johnson  
Bryant Hirsburg  
Kurt Hoffman  
Gary Holt  
Jim Indiveri  
Richard Ingraham  
Laura Iwasaki  
Alan Kawakami  
Shelliann Kawamoto  
Nellie Kim-Werha  
Shanon Kirchoff  
Michael Klein  
John Lindsey  
Charles Low  
Jesse Maize  
Steve Malmstrom  
Matthew McCoy  
Mark McInnis  
Russ McReynolds  
Wade Murphy  
Jeffrey Nickel  
Jack Okerstrom  
Sara Oliver  
Julie Olsen  
Mike Olson  
Jim Osborne  
Dan Ranjbar  
Craig Ratzlaff  
Fred Regennitter

Lindsay Resmer  
David Ries  
Don Sanchez  
Adam Saylor  
Clark Schumacher  
Henry Schuppert  
Robert H. Simpson  
Bradley Smith  
Gerald Spencer  
Dan Spillers  
Jim Suit  
Lori Tima  
Kelly Toombs  
Richard White  
Don Wilcoxin  
Don Wilson  
Dustin Wilson  
Lawren Windhorst

**PS: Dr. Os asks,  
"If you haven't  
paid your dues....  
why not?!"**



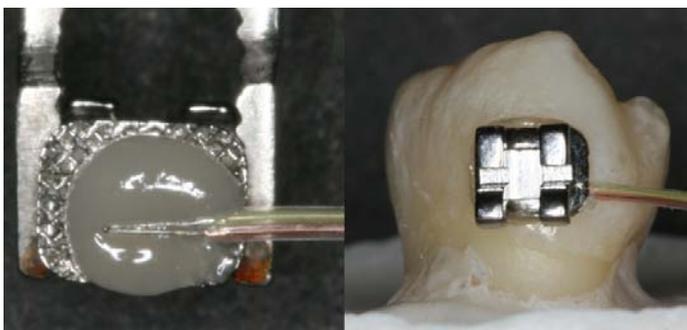
# Congratulations to Our Newest Orthodontic Alumni upon Completion of Their MS Degrees in Oral and Craniofacial Sciences

**Dr. Whitney Nicole Deforest Hewitt**

**Influence of Bracket Type Combined with Delayed Light Activation on Bracket-Adhesive Shear Bond Strength**

This study examined the effect of bracket type and varying delayed polymerization times in combination with bracket manipulation on adhesive temperature change, shear bond strength (SBS), degree of conversion (DC), and adhesive remnant index (ARI) score when using a resin adhesive. Specimens from four bracket types: stainless steel with a mesh base (SSm), polycrystalline with a dovetail base (PCd), polycrystalline with a micro-shard base (PCsh), and monocrystalline with a micro-sphere base (MCsp), were divided into three groups of clinically relevant delay times (0.5, 5, 10 min) to simulate the delay that frequently occurs between bracket placement and manipulation followed by light polymerization.

Based on an analysis of variance ( $\alpha=0.05$ ), bracket type was not a significant factor in mean temperature change of the resin cement; however, delay time was found to be a significant factor ( $p<0.05$ ). There was no significant difference in SBS as a function of delay time. The PCsh bracket type had higher SBS values than other bracket types. Delayed polymerization time and bracket type were not significant factors in DC or ARI. A Spearman correlation ( $\alpha=0.05$ ) showed a positive correlation between SBS and ARI at the 0.5 min time delay across bracket types.



**Dr. Andrew McDonald**

**Effects of Posterior Bite Plane Mouth Guards on Masticatory Muscle Duty Factors During Exercise And Predicted Temporomandibular Joint Loads During Biting**

Posterior bite plane mouth guards (PBPMG) are recommended during contact sports for tooth-protection and recently have been marketed claiming to enhance athletic performance by reducing harmful effects of jaw clenching. However, no previous investigations quantitatively evaluated how PBPMG affect the temporomandibular joint (TMJ) complex. This pilot study aimed to investigate if PBPMG use: significantly decreased jaw muscle duty factors (DF= muscle activity duration  $\geq$  a given threshold/total recording duration, %) during standardized exercises compared to sham or no appliance conditions; and significantly decreased predicted TMJ loads during static biting compared to no appliance. Five males and five females consented to participate in an IRB-approved protocol. Each subject completed standardized biting tasks and push-up exercises without PBPMG repeated at 2 laboratory visits while masseter and anterior temporalis surface EMG were recorded. Bite-forces were also recorded during biting tasks. Subjects were trained to use portable equipment to make right masseter and anterior temporalis EMG field recordings while performing the standardized exercises at home twice for each of 3 randomly-assigned conditions: PBPMG, sham, and no appliance. EMG:bite-force linear regressions were calculated for each subject's right-side muscles, then used to determine EMG for 20 N bite-forces from 2 visits. Results were averaged to establish magnitude thresholds ( $T20NAve$ ). Subject's right-side muscle DFs were calculated at 5  $T20NAve$  magnitude and duration thresholds from EMG during exercises in laboratory and field environments. Associations with DF were examined by considering conditions (PBPMG, sham, no appliance) plus gender (male, female), muscle (masseter, anterior temporalis), and environment (laboratory, field) for significant effects analyses using estimated slopes from linear regression relations. Numerical models based on subjects' jaw anatomy and relations were used to predict TMJ loads for a range of static molar biting in conditions of PBPMG and no appliance. Coefficients from a gamma regression were estimated with an identity link function to examine associations with TMJ loads and condition (PBPMG, no appliance) plus gender (male, female) and condyle (ipsilateral, contralateral). Conclusions: PBPMG use during standardized exercises did not significantly reduce jaw muscle DF compared to sham and no appliance; whereas it did significantly reduce predicted TMJ loads compared to no appliance.



**Dr. Steven Shaw**

## Knowledge of Dental Students with Respect to Orthodontic Diagnosis and Clear Aligner Therapy

The purpose of this project was to investigate how prepared dental students are to diagnose orthodontic problems and provide clear aligner therapy, and whether or not certain demographic characteristics could predict an effect on aligner knowledge or orthodontic knowledge. An IRB-approved 16-item survey was constructed and administered to 163 third and fourth year dental students at UMKC to test if demographics including school year, future practice plans, interest in orthodontics, desire to provide clear aligner therapy, and confidence to provide clear aligner therapy are associated with aligner knowledge and orthodontic knowledge. The survey was introduced to the dental students via an IRB-approved verbal script during a class, and then the students anonymously filled out the surveys. The survey questions were divided into 3 domains. The first six questions made up the first domain and assessed demographic information of the students. The next four questions investigated aligner knowledge and were grouped together in the second domain to give each student a score for their aligner knowledge. The last 6 questions were grouped together in the third domain to do the same for orthodontic knowledge. Student demographics were then used to evaluate whether or not there was an effect on students' aligner knowledge or orthodontic knowledge. Because there was no significant difference in the aligner knowledge or orthodontic knowledge between the D3 and D4 classes, it was decided to run all evaluations to include both classes to increase the sample size. Across D3 and D4 classes, students planning to specialize in orthodontics had a significantly higher ( $p < 0.05$ ) orthodontic knowledge compared to students planning to enter general practice. Aligner knowledge was significantly higher ( $p < 0.05$ ) among students planning to refer all orthodontic cases to a specialist. Confidence to treat patients with clear aligners had no bearing on aligner knowledge and orthodontic knowledge. There was no correlation found between aligner knowledge and orthodontic knowledge.

Following completion of our senior residents' thesis defenses, 30 faculty, residents, spouses and children gathered at AFFARE Restaurant to celebrate. We are very proud of the hard work and dedication of Drs. Steven Shaw, Andrew McDonald, and Whitney Hewitt.



**The 44th Annual Moyers Symposium, 2017, Ann Arbor, Mich.**

This year's gathering for the annual Moyers Symposium took place March 3 through 5 at the University of Michigan. Residents and faculty experienced the "joys" of spring in Ann Arbor. The theme of the 2017 symposium was the management of obstructive sleep apnea.

*Above: Braving the not-so-warm March evening in Ann Arbor are (L-R) Drs. Jeff Nickel (program director), Kevin Kaiser, Alicia Griffin, Brad Chun, Kelcey Loveland, Andrew Eichholz, and Laura Iwasaki (Leo Rogers Chair)*

EXPERIMENTAL DESIGN: INDEPENDENT AND DEPENDENT VARIABLE SPECIFICS		
Independent variable	Specific details of Student demographics	Dependent variable
Student demographics	Dental school classification (D3 or D4)	Aligner knowledge (Composite score of 5 questions)
	Future practice plans (GP, orthodontic specialty, or other specialty practice)	
	Future plans to provide orthodontic care and clear aligner therapy	Orthodontic knowledge (Composite score of 6 questions)
	Confidence in providing clear aligner therapy	

# Your UMKC Faculty: Influence on the Local, National, and International Scenes

Congratulations to Drs. Vesna Ferrer and Shankar Rengasamy Venugopalan, who both received 2017 awards from the American Association of Orthodontists Foundation. Each of these awards provides \$20,000 to carry out four developmental plans in the areas of education, teaching skills, clinical skills and research. Dr. Ferrer is the recipient of the 2017 Michael Matlof Memorial Orthodontic Faculty Development Fellowship Award and her research project is entitled: "Curriculum content in clinical skills development in orthodontics for predoctoral and advanced education programs." Dr. Ferrer is working with Drs. Cindy Amyot and Chris Van Ness on this project. Dr. Shankar Rengasamy Venugopalan is the recipient of the 2017 Robert E. Binder Orthodontic Faculty Development Award and his research project is entitled: "Genomic analyses in ameloblastoma." Dr. Rengasamy Venugopalan is working with Dr. Craig Whitt on this project.

In addition, Dr. Ferrer was selected for a 2017 scholarship from the American Association of Orthodontists to participate in a two-part Academy of Academic Leadership Program. Dr. Ferrer was one of four orthodontic faculty from the U.S. and Canada sponsored this year for this program.

Also, Dr. Rengasamy Venugopalan has been selected to participate in the 2017 U.S. Bone and Joint Initiative/Bone and Joint Canada — Young Investigators Initiative — Grant Mentoring and Career Development Program. This will involve two workshops to aid research proposal development leading to a grant application submission. Dr. Rengasamy Venugopalan will work with Dr. Mark Johnson and other assigned mentors in this enrichment program.

Plus: It was announced at the 2017 International Association of Dental Research Annual Session that Dr. Rengasamy Venugopalan was elected to one of the two open Director positions on the Executive Committee, Craniofacial Biology Group. This was an international-level election.



Dr. Vesna Ferrer



Dr. Rengasamy Venugopalan

Dr. Mike Razza Becomes an Honorary Life Member of the Australian Society of Orthodontists

It was a special honor for our alum Dr. Mike Razza (left) to be presented with an Honorary Life Membership medallion (above). On March 4, 2017, ASO President Dr. Peter Lewis (right) presented the medallion to Mike during the Australian Society of Orthodontists Foundation for Research and Education meeting in Queensland.

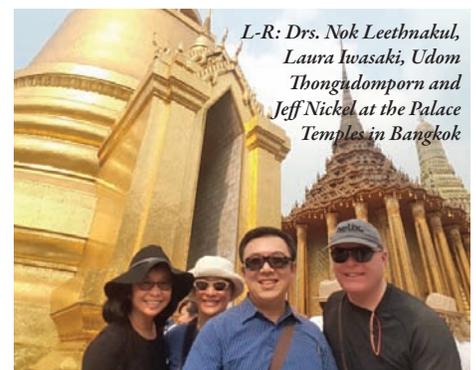
**Congratulations Mike on your deserved recognition by the Australian Society!**



Waving the UMKC Flag in Thailand

Drs. Laura Iwasaki and Jeff Nickel were invited speakers and research advisors at Prince Songkla University in the southern Thai city of Hat Yai. Prince Songkla University was established in Hat Yai in 1971 and has approximately 34,000 students engaged in 295 educational programs. The Department of Orthodontics in Prince Songkla University has 39 full-time orthodontic residents who are engaged in their MS and PhD programs, where the term of full-time study can be up to five years.

Dr. Chairat Charoemratrote, dean of the dental school, with Dr. Nok Leethnakul (department chair), and Dr. Udom Thongudomporn (program director) extended the invitation to Drs. Iwasaki and Nickel to travel and work in Hat Yai, with a focus on helping to improve the research conducted by the senior orthodontic residents.



L-R: Drs. Nok Leethnakul, Laura Iwasaki, Udom Thongudomporn and Jeff Nickel at the Palace Temples in Bangkok

# UMKC Influences the World through Publications by Your Full-Time Orthodontic Faculty

1. Reynolds A, Nickel JC, Liu Y, Leeper DK, Riffel KM, Liu H, Iwasaki LR (2016): Sex differences in jaw muscle duty factors during exercise in two environments: A pilot study. *J Electromyogr Kinesiol* 30:15-22.
2. Allareddy V, Prakasam S, Rampa S, Stein K, Nalliah RP, Allareddy V, Rengasamy Venugopalan S (2017). Impact of Periapical Abscess on Infectious Complications in Patients Undergoing Extracorporeal Circulation Auxiliary to Open-Heart Surgical Procedures. *J Evid Based Dent Pract* 17: 13-22.
3. Iwasaki LR, Gonzalez YM, Liu Y, Liu H, Markova M, Gallo LM, Nickel JC (2017): TMJ energy densities in healthy men and women. *Osteoarthritis Cartilage* 25:846-849.
4. Wei F, Van Horn MH, Coombs MC, She X, Gonzales TS, Gonzalez YM, Scott JM, Iwasaki LR, Nickel JC, Yao H (2017): A pilot study of nocturnal temporalis muscle activity in TMD diagnostic groups of women. *J Oral Rehabil* 44:517-525.
5. Iwasaki LR, Gonzalez YM, Liu Y, Liu H, Markova M, Gallo LM, Nickel JC (2017): Mechanobehavioral scores in women with and without TMJ disc displacement. *J Dent Res* Apr 1 [e-pub ahead of print].
6. Liu Y, Ozodiegwu I, Nickel J, Wang K, Iwasaki L (accepted): Self-reported health and behavioral factors are associated with metabolic syndrome in Americans aged 40 and over. *Prev Med Rep*.
7. Iwasaki LR, Liu Y, Liu H, Nickel JC (in press): Jaw mechanics in dolichofacial and brachyfacial phenotypes: A longitudinal cephalometric-based study. *Orthod Craniofac Res*.
8. Iwasaki LR, Liu Y, Liu H, Nickel JC (in press): Speed of tooth movement in growers and non-growers: Selection of applied stress matters. *Orthod Craniofac Res*.
9. Nickel JC, Weber AL, Covington Riddle P, Liu Y, Liu H, Iwasaki LR (in press): Mechanobehavior in dolichofacial and brachyfacial adolescents. *Orthod Craniofac Res*.
10. Wu Y, Cisewski SE, Wei F, She X, Gonzales TS, Iwasaki LR, Nickel JC, Yao H (in press): Fluid pressurization and tractional forces during TMJ disc loading: A biphasic finite element analysis. *Orthod Craniofac Res*.
11. Nickel JC, Covell Jr DA, Frazier-Bowers SA, Kapila S, Huja SS, Iwasaki LR (in press): Preface to COAST 2016 Innovators' Workshop on Personalized and Precision Orthodontic Therapy. *Orthod Craniofac Res*.



## Bioethics with Dr. Cathy Taylor-Osborne

All UMKC Advanced Education Program residents are now able to meet CODA accreditation standards thanks to the hard work of Dr. Cathy Taylor-Osborne. Cathy completed her MS degree in Bioethics from Loyola University in 2012.

Currently, Cathy is the Dental Director of the State of Kansas Department of Health and Environment. We are very fortunate to have Cathy's expertise and guidance with the emerging issues of the day. The Bioethics Seminar is an annual requirement that engages UMKC residents in topical issues they are likely to experience in their private practices.

## Thanks to our Part-Time Faculty

The strength of the Advanced Education Program in Orthodontics and Dentofacial Orthopedics rests on the mighty shoulders of our clinical faculty. Headed by Orthodontic Clinics Director, Jim Osborne (DDS '72, Ort '76), we are fortunate to have such devoted part-time faculty who give of their time and experience to help foster the growth of our newest alumni. Thanks for your dedication and service to UMKC.



**Jim Osborne** (DDS '72, Ort '76)  
Director Orthodontic Clinics



**Frank Crist** (DDS '90, Ort '93)  
Thursday afternoon



**Steve Billings** (DDS '77, Ort '79)  
Friday afternoon



**Scott Hamilton** (DDS '84,  
Baylor MS Ort '86)  
Thursday afternoon



**Brad Smith** (DDS '97, Ort '00)  
Tuesday afternoon



**Jeff Thompson**  
(DDS '89, Washington U. Ort '91)  
Wednesday morning



**Don Wilson** (DDS '93, Ort '95)  
Thursday afternoon



**Dustin Burleson** (DDS '04, Ort '06)  
Wednesday morning



**Kurt Hoffman** (DDS '94, Ort '96)  
Wednesday afternoon



**Michael Klein** (DDS '84, Ort '87)  
Friday morning



**Cameron Walker** (U. Chicago DDS,  
North Carolina Ort '12)  
Friday pre-doc clinic



**Steve Malmstrom**  
(DDS '77, MS Ort '80)  
Friday morning



**Dan Ranjbar**  
(DDS '91, Ort '93)  
Friday morning



**Gena McGivern**  
(DDS '10, Ort '12)  
Thursday afternoon

It was a boisterous crowd of UMKC alumni who jammed themselves into the cozy surrounds of Torrey Pines 3 at the San Diego Marriott Marquis. Several decades of graduates rubbed shoulders, clinked beer bottles, and ate up the lovely buffet spread.



## UMKC at 2017 AAO Alum Gathering in San Diego



The board of the Kansas City Orthodontic Support and Research Foundation met early on Thursday, April 6, 2017, to discuss issues relevant to the projects and plans of our alumni. Dr. Patrick Briscoe (President 2015–2016) chaired the meeting.

The board members include Drs. Patrick Briscoe (2016–2017 President), Jim Indiveri, Dave Reese (President Elect 2017–2108), Steve Billings (Secretary), Steve Malmstrom, Mike Klein, Clarence Simmons, Laura Iwasaki (ex officio, Leo Rogers Chair of Orthodontics), Jim Osborne (Treasurer), Chuck Schumacher, Blake Borello, Kurt Hoffman, Julie Olson, Jodi Hentscher-Johnson, and Don Spillers.

Issues discussed were finances and policies of the organization, donation of monies to the UMKC Graduate Orthodontic Program, and planning for the 2018 meeting. Thanks to all the foundation board members for your dedication to UMKC.



## Kansas City Orthodontic Support and Research Foundation at Work for You!

# Graduation 2016 for Drs. McDonald, Hewitt, and Shaw



The success of our recently graduated residents was celebrated during our graduation gala held Saturday, Dec. 17, 2016. Some 60+ family, residents, staff and faculty gathered at Indian Hills Country Club to honor Drs. Andrew McDonald, Whitney Hewitt, and Steven Shaw. Our newest alums have now spread out over the country. Dr. McDonald is in private practice orthodontics in Albuquerque, N.M. Dr. Hewitt decided to stay in the Midwest and returned to her hometown, St. Louis. Dr. Shaw decided to head west to Las Vegas, Nev.

*Below L-R: Drs. Shaw, Hewitt and MacDonald take a moment for a photo op with Dr. Mike Klein, who was nominated by the graduating class to give the graduation address.*

*Dr. James Osborne, Director of Orthodontic Clinics, gives marching orders to Dr. Steven Shaw, along with Steven's graduation certificate.*



Dr. Andrew McDonald



Dr. Steven Shaw

## Meet the Residents

CLASS OF 2017



**Andrew Eichholtz**  
DDS, Marquette University, 2011  
Home town: East Troy, WI



**Mark Greenburg**  
DMD, University of Colorado, 2015  
Home town: Wheat Ridge, CO



**Kelcey Loveland**  
DMD, UNLV, 2015  
Home town: Hurricane, UT

CLASS OF 2018



**Brad Chun**  
DDS, UMKC, 2016  
Home town: Honolulu, HI



**Kevin Kaiser**  
DDS, UMKC, 2016  
Home town: St. Louis, MO



**Alicia Griffin**  
DDS, Baylor College of Dentistry, 2016  
Home town: Arlington, TX

CLASS OF 2019



**Kaylee Bergman**  
DDS, UMKC, 2017  
Home town: Augusta, KS



**Mary Becker**  
DDS, University of Texas Houston  
Home town: Houston, TX



**Laura Moore**  
DDS, UMKC, 2017  
Home town: Springfield, MO



University of Missouri-Kansas City  
School of Dentistry  
650 East 25th Street  
Kansas City, MO 64108



**We haven't been  
in touch  
for a year!**

**Here is wishing you a  
HAPPY NEW YEAR!  
from UMKC Orthodontics!**

