Dr. Vance Dykhouse Honored as UMKC Distinguished Orthodontist of the Year

Vance Dykhouse (DDS ’66, MSORT ’70) was honored as the 2009 recipient of the “Distinguished Orthodontist Award” during the 2009 UMKC Orthodontic Alumni Meeting at the Midwest Dental Conference, March 26–27. Dr. Don Thompson (DDS ’61), UMKC Postgraduate Orthodontic Clinic Director, introduced and presented the award at the 2009 UMKC Orthodontic Alumni luncheon, which was attended by more than 150 friends, family, and past and current UMKC orthodontic residents.

Dr. Dykhouse has a long history of service to the orthodontic profession. He has been involved in teaching at the Tweed Course in Arizona from 1991 to the present, and he has been a part-time instructor for the UMKC Orthodontic Department from 1976 to 1982 and from 1991 to the present. He served on the Missouri Specialty Board from 1979 to 1990, and has been active in the Angle Society since 1988. Perhaps his biggest contribution to orthodontics, though, has been his service as the Midwestern Society of Orthodontists representative on the American Board of Orthodontics. Starting in 1991 and ending in 2008, Vance served in all the offices of the ABO. During his career he has been involved in many other areas of dentistry, orthodontics and life in general. A husband, father, and grandfather, he has been a devout family man. Congratulations, Vance, for this well-deserved honor!

Steve Billings (DDS ’77, ORT ’79) (R) offers his congratulations to Dr. Vance Dykhouse, who has been a teacher and mentor to Steve. Both men serve as dedicated part-time instructors in the Postgraduate Orthodontic Program.
UMKC Orthodoxic Alumni Board at Work for You!

The UMKC Board met early on Thursday, March 25, 2009, to discuss issues, projects and plans related to UMKC orthodontic alumni. Dr. Rob Kennemer (DDS ’88, MSORT ’91), President of the Alumni Board, presided over the meeting. Alumni Board members include: Santiago Colon (ORT ’92), R. Wayne Thompson (DDS ’67, MSORT ’72), Jim Fanning (DDS ’70), Ron Nugent (ORT ’87), Clarence Simmons (DDS ’96, ORT ’98), Steve Billings (DDS ’77, ORT ’79), Robert D. Smith (DDS ’77, MS ’80, MSORT ’82), Jim Osborne (DDS ’72, ORT ’76), Scott Francois (DDS ’99, ORT ’01) (Vice-President), and Kelly Tabacchi (DDS ’99, ORT ’01).

The issues the Board discussed included finances for the organization, donation of monies to the UMKC Graduate Orthodontic Program, and planning for the 2010 and 2011 alumni meetings. At the time of the meeting, nominations were still being received for new 2009-2011 Alumni Board Members and Vice President-Elect. Dr. Laura Iwasaki, Leo A. Rogers Chair of Orthodontics and Dentofacial Orthopedics, provided the board with information concerning acquisitions of equipment made possible by donations from alumni, the Alumni Board, and the Missouri Orthodontic Society and the Kansas Association of Orthodontists.

Dr. Jeffrey Harvey Visits from North Dakota

Jeff Harvey, M.D., Ph.D., D.M.D., was kind enough to come down from North Dakota to Kansas City in March, leaving the snow belt to give a one-half day seminar on practice management to our orthodontic residents. Dr. Harvey is unique in that he came to orthodontics after finishing MD and PhD programs, and spending time with NIH working on neuroscience. Needless to say, Dr. Harvey’s approach to practice management is based on his own research and incorporating the work of others so as to produce an orthodontic business model that is unique in the country.

Dr. Jeffrey Harvey with his office manager, Jessica.

Dr. R. Wayne Thompson Receives UMKC Alumni Achievement Award

This delightful 2008 photo (from the UMKC BONDS archives) of Drs. R. Wayne Thompson (L) and Steve Billings was taken during the 2008 Orthodontic Alumni Meeting.

The UMKC Alumni Association Celebration 2009, held Thursday, April 16, proved to be an auspicious day for UMKC Orthodontics because R. Wayne Thompson (DDS ’67, MSORT ’72) was honored with an Alumni Achievement Award. These awards are a UMKC Alumni Association tradition to honor alumni who are making a difference. Dr. Thompson’s roots in rural Kansas and his education at the UMKC School of Dentistry have led him to prominence in his service to the profession. Since 2007, he has served as an ADA Trustee, devoting hours of service to organized dentistry. He is a past president of the Kansas Dental Association, and has been recognized as Kansas Dentist of the Year by his peers. He has volunteered as a leader at UMKC, helping to found the UMKC Orthodontic Alumni Association, and is currently president of the UMKC School of Dentistry Rinehart Foundation and president-elect of the UMKC Dental Alumni Association. UMKC Orthodontics express heartfelt gratitude to Dr. Thompson for his continued work on behalf of the school and the profession. Congratulations on your latest honor, R. Wayne!
Support for UMKC Orthodontics 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. At the April 2009 meeting of the UMKC Orthodontic Alumni Board, a request was forwarded to make information available to alumni and friends of UMKC Orthodontics regarding the variety of ways contributions assist the program. The following are brief histories and current balances of accounts used by UMKC Orthodontics. Please use the enclosed donor card to make your contributions to UMKC Orthodontics.

The Department Discretionary Fund ($20K) • The funds from this account support the daily activities of the department. This includes the purchasing of equipment (such as cameras and a laser unit), off-setting costs of travel by residents to meetings and speakers to our program, and subsidizing educational activities of staff.

The Orthodontic Investment Fund ($228K) • This fund is directed by the UMKC Orthodontic Alumni Board. Every year, monies accrued through interest are directed from this fund to help support a variety of endeavors associated with the UMKC Graduate Orthodontics Program. Some of the funds are used to support student travel to meetings or to purchase equipment. The Orthodontic Investment Fund also makes an annual contribution to the Department Discretionary Fund.

Endowed Chair Fund ($524K) • The goal of this fund is to raise $1.1 million to endow a faculty budget line in the Department of Orthodontics and Dentofacial Orthopedics similar to the Leo A. Rogers Endowed Chair, which is currently held by Department Chair Dr. Laura Iwasaki. The interest generated from the fund supplements the salary of the faculty line.

Drs. Muehlebach/Thompson Fund ($24K) • The objective of this $50K capital campaign is to build a new seminar-library room for orthodontic residents and faculty. Current facilities within the department are cramped, and a new seminar room-library would augment graduate orthodontic education at UMKC.

Dr. Eric J. Schweitzer Memorial Fund ($12K) • Each year, the UMKC Graduate Orthodontics Program organizes the Dr. Eric J. Schweitzer (ORT ‘92) Memorial Symposium. The symposium invites 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 difficulties they have encountered while embarking on their careers. The Memorial Fund generates income to offset symposium costs.

Dr. Dan Blackwell Lecture Series Fund (recently created, $2,500) Dr. Daniel Blackwell recently retired from active teaching at UMKC. To honor Dr. Blackwell’s commitment to UMKC Orthodontics, this lecture series bearing his name was established. (See “Inaugural Dan Blackwell Lecture” below)

Dr. John Daskalogiannakis Presents Inaugural Dr. Dan Blackwell Lecture

Dr. John Daskalogiannakis, an Assistant Professor at the University of Toronto and Senior Fellow at the Hospital for Sick Children, presented the inaugural lecture of the Dr. Dan L. Blackwell Lecture Series. More than 50 orthodontists and residents attended Dr. Daskalogiannakis’ presentation, titled “Cleft Lip and Palate Management, Controversies and Orthodontic Perspectives.”
More than 60 orthodontists and orthodontic residents gathered at the Hyatt Regency Hotel for the annual orthodontic lectures at the Midwest Dental Conference. This year’s guest lecturers were Dr. William Thomas (Thursday) and Ms. Rosemary Bray (Friday). On Thursday, March 26, Dr. Thomas presented “Damon System Treatment and Protocols,” a series of morning and afternoon lectures focusing on current issues of contention when comparing traditional bracket design and self-ligating mechanisms. The lively audience discussion was diverse, with issues ranging from expansion techniques and bone responses, comparison of data from historic literature and new contradictory data produced by the latest measurement technology, and soft-tissue responses to orthodontic forces. Dr. Thomas skillfully directed his presentation and ensuing discussions to reinforce the need for research-based data in order to address controversial issues faced by orthodontists. Lunch was held at the Peppercorn Duck Club, and a reception was held in the Van Horn Room after Thursday’s education program.

On Friday, March 27, Ms. Bray presented “Top Ten Management Mistakes,” a morning lecture that produced a good deal of audience participation. Her novel approaches to understanding the personnel dynamics within orthodontic offices were a captivating element for the morning’s continuing education program. The persuasive lecture offered the attendees great ideas to take back to their practices.
Dr. Nellie Kim-Weroha Receives UMKC Thesis Award

Dr. Weroha (DDS ’04, AEGD ’05, ORT ’07, MSOB ’08) is in Rochester, N.Y., with her husband, Dr. John Weroha (Internal Medicine Resident, Mayo Clinic). Dr. Kim-Weroha was formally honored this spring with the 2008 UMKC Distinguished Master’s Thesis Award for her outstanding work, “Regulation of Sclerostin Expression in Osteocytes by Mechanical Loading.” Her thesis advisor was Dr. Mark Johnson of the Department of Oral Biology. Congratulations Nellie for your UMKC scholar award!

Dr. Johnson Retires from Teaching at UMKC

After four years of teaching in the Orthodontic Graduate Program, Dr. Eric Johnson has retired from his clinical obligations at UMKC. Dr. Johnson started teaching in the summer of 2005 and has made significant contributions to the training of orthodontic residents. Thankfully, Eric has agreed to continue his participation in the comprehensive examinations, thereby ensuring that the residents continue to benefit from his extensive knowledge. Thank you, Eric, for your contributions to UMKC Orthodontics!

Dr. Eric J. Schweitzer Memorial Symposium ’09

Each year, UMKC Graduate Orthodontics organizes the Eric J. Schweitzer (ORT ’92) Memorial Symposium. The symposium brings recent orthodontic graduates to the School of Dentistry to discuss their practice experiences with current orthodontic residents. The benefactors of the Schweitzer Memorial Symposium have contributed to this endeavor so that recent orthodontic graduates can speak about the joys and difficulties they have encountered while embarking on their careers. This spring’s two guest speakers were Brent Woods (ORT ’06) and Gina Pinamonti (ORT ’98).

UMKC Alums at Mayo Clinic

Drs. Fred Regenniter (L) (ORT ’81) and John Voltz (R) (ORT ’86) were kind enough to pause during their busy schedules at the Boston AAO meeting to pose for a photograph. Drs. Regenniter and Voltz are full-time faculty at the Mayo Clinic, where Fred is the Orthodontic Program Director. Drs. Regenniter and Voltz serve as excellent examples of the many UMKC alumni throughout the nation who are directly involved in the education of future orthodontists.
Dr. Laura Iwasaki, Leo A. Rogers Chair, and Dr. Jeffrey Nickel, Post-Graduate Program Director, are conducting NIH supported research, and have had three papers and three book chapters published in the current 2009 calendar year. Their collaborative work with Dr. Bob Spilker, Rensselaer Polytechnic Institute of Biomedical Engineering, Troy, N.Y., produced a paper titled “A biphasic finite element model of in-vitro plowing tests of the temporomandibular joint disc,” published in *Annals of Biomedical Engineering*. Together with Dr. Spilker, and colleagues at University of Buffalo School of Dental Medicine, a paper titled “Static and dynamic mechanics of the TMJ: Plowing forces, joint load, and tissue stress” was published in *Orthodontics and Craniofacial Research*. In collaboration with researchers from Osaka, Japan, and Zurich, Switzerland, two book chapters were published. “Ipsilateral and contralateral human TMJ loads compared via validated numerical models,” and “Tractional forces, work, and energy densities in the human TMJ,” in the 2009 University of Michigan Craniofacial Growth Series Monograph *Temporomandibular Disorders and Orofacial pain – Separating Controversy from Consensus*. The work of Drs. Iwasaki and Nickel in the area of bone remodeling and orthodontic tooth movement in humans is on-going and is supported by the AAOF. Their recent paper in *Orthodontics and Craniofacial Research* titled “IL-1 gene polymorphisms, secretion in gingival crevicular fluid, and speed of human orthodontic tooth movement,” and book chapter in *Biological Mechanisms of Tooth Movement* titled “Markers of paradental tissue remodeling in the gingival crevicular fluid of orthodontic patients” attests to UMKC faculty expertise in combining clinical orthodontic and basic science research.

**Dr. Ling Ye**, Assistant Professor in the Departments of Orthodontics and Dentofacial Orthopedics and Oral Biology has co-authored two papers in 2009. In *Current Opinion in Nephrology and Hypertension*, Dr. Ye and collaborators addressed the role of osteocytes in phosphate homeostasis. Dr. Ye’s work in tooth morphogenesis was recently published in *Cells Tissues Organs*, where he reported on genetic control of enamelin expression.

UMKC is proud to recognize and congratulate Dr. Ling Ye for being awarded a two-year full-time Faculty Teaching Fellowship from the AAO. This fellowship recognizes Dr. Ye’s dedication to education in a time of great need for orthodontic educators. Dr. Ye was a superb UMKC representative at the 2009 AAO meeting, where he gave a lecture in the “Rising Stars” Lecture Series. Ling’s presentation, “Beyond Dentin Matrix Protein 1: The Connection with Tooth Movement,” was a brief look into his work in the area of genetic influences on bone metabolism. This work was partially supported by a grant to Dr. Ye from the National Institutes of Health. Thanks for your hard work Ling, and we appreciate your efforts to put UMKC on the “genetics map” in orthodontics.

Drs. Iwasaki, Ye and Nickel currently are funded by several institutions. Dr. Ye is funded by a $600K grant from the NIH to study the genetics of odontogenesis. His work specifically focuses on dentin matrix proteins. Drs. Nickel and Iwasaki are the principle investigators of an NIH-supported ($1.45 million) grant to study the relationship between biomechanics and degenerative joint disease. They also are supported by a grant from the AAOF ($69K) to study the effects of mechanics and genetics on tooth movement, and a UMKC Center of Excellence Award ($76K) to study the effects of gender and behavior in the development of degenerative joint disease. Their research work is collaborative, involving other investigators at UMKC, KCUMB, Children’s Mercy Hospital, University of Buffalo, and University of Zurich, Switzerland.

Drs. Nickel (L) and Luigi Gallo (Zurich) watch the computer screen (B) during an experiment using optoelectric jaw tracking where 3D tracking of light emitting diodes (A) are recorded using 3 cameras (C).

Results from these experiments are merged with MRI data of the subject to show how stresses move through the TMJ disc during condyle movement.

Dr. Ye’s research is directed to understanding the role of the osteocyte in mineralized tissue physiology. This is an electron microscopic image of a normal osteocyte, with its many cytoplasmic extensions that allow the cell to activate a nerve cell within an ossified matrix.
UMKC Alumni Association Donations Support Resident Travel

The generous contributions of monies to the department from the Alumni Association enhanced the educational experience of our residents. In turn, it is our hope that our “newly minted” orthodontists will respond in kind, as our Class of 2007 did, and offer support for those who follow.

- Orthodontic residents Drs. Blake Borello, Llon Clendenen, Ben Frandsen, and Dave Ries grew their mustaches (see photo) and attended the Tweed Study Course in Tucson, Ariz., March 29 through April 9, 2009. The group put a lot into the course and in turn got a lot out of it. Many thanks to our Alumni Association for providing financial help for the trip.

- Funding from the “Class of 2007” helped with travel expenses for all residents to attend the AAO meeting in Boston. At the meeting, Dr. Jason Burckhard (see photo) was our Charley Schultz Resident Scholar Candidate and presented his research: “Dimensional Stability of Extended-Storage Alginate Samples.”

UMKC Alumni Gather at AAO Boston

UMKC orthodontic alumni came from far and wide to meet classmates and faculty at the AAO alumni reception in Boston, Mass. The Sheraton Hotel offered an ideal setting for the sometimes boisterous crowd to catch up on news and relive “war stories” from their days in the old UMKC ortho clinics.

(Top Photo) Dr. John Roth poses with LeAnne Smith (L) and Kirsten Myers (R), representatives for the “Smiles Change Lives” program. (Middle Photo) Having a good time together are (L-R): Dr. Laura Iwasaki, Leo A. Rogers Chair of Orthodontics and Dentofacial Orthopedics, and the Billings family of Kansas City — Steve (DDS ’77, ORT ’79), Deby, and their daughter, Abbey. (Below, L-R) The magnificent six of the alumni reunion: Ed Beatty (ORT ’70), Tom Kennermer (ORT ’69), Ed Johnson (ORT ’71), Vance Dykhouse (DDS ’66, ORT ’70), Ron Hueter (ORT ’70) and Grady Price (ORT ’66).
In 2000 the UMKC Orthodontics and Dentofacial Orthopedics Program with financial support from the Virginia Brown Foundation launched the Smiles Change Lives (SCL) program. Each year the program enables UMKC to perform orthodontic screening examinations for over 100 applicants to the SCL program, and provide orthodontic treatment for approximately 10 patients. The UMKC Department of Orthodontics and Dentofacial Orthopedics allocate approximately $20,000 per year in resources to ensure the success of the screening examinations for SCL. Records are taken during these examinations, with active participation from six staff, four residents, and an attending member of the faculty. In the fall of 2008, third-year dental students at UMKC began gaining orthodontic screening experience by participating in the examination of SCL applicants, under the supervision of Dr. Ingrid Reed, Director of the Pre-doctoral Orthodontic Program. This experience serves the community and SCL while strengthening the diagnostic skill and awareness of the dental students.