

# Still

magazine

ulatory system



## Meeting of the minds

How ATSU fuses classical anatomy and technology



# Our point of view

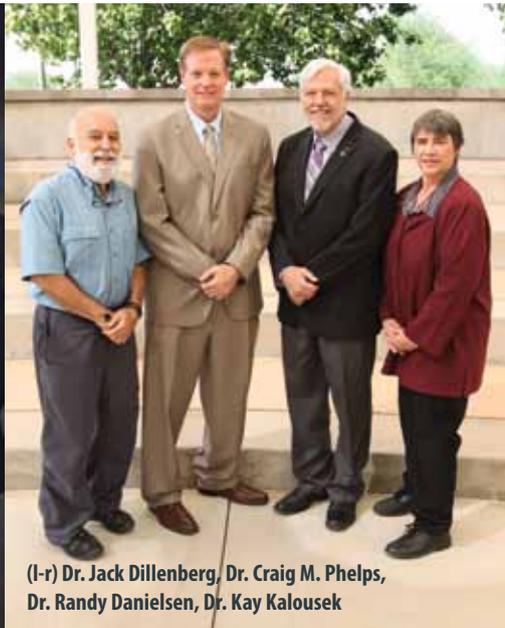
AT&T Still-Well Program participants gear up to kayak the Salt River near Mesa, Ariz.

Photo credit: Cindy Kaye





(l-r) Dr. Margaret Wilson, Dr. Craig M. Phelps, Dr. Kimberly O'Reilly, Dr. Christopher Halliday



(l-r) Dr. Jack Dillenberg, Dr. Craig M. Phelps, Dr. Randy Danielsen, Dr. Kay Kalousek

## Good as new

I may be new to the presidency, but ATSU has been a second home to me since 1979. Much excitement surrounds my new role, and what's more exciting is the bright future of this University.

Many key changes are taking place, notably the appointment of four new deans. Dr. Christopher Halliday joined us as inaugural dean of the Missouri School of Dentistry & Oral Health, Dr. Kay Kalousek is the new dean of the School of Osteopathic Medicine in Arizona, Dr. Randy Danielsen resumed his role as dean of the Arizona School of Health Sciences, and Dr. Margaret Wilson is at the helm as dean of the Kirksville College of Osteopathic Medicine. Let's not forget the time and talents of School of Health Management Dean Dr. Kimberly O'Reilly and Arizona School of Dentistry & Oral Health Dean Dr. Jack Dillenberg, who continue to make ATSU a success.

As we enthusiastically undertake a new chapter at ATSU, we are forever indebted to President Emeritus Dr. Jack Magruder and miss him dearly. I wish him well in his retirement.

One might think there's no fun to be had as the new guys. Yes, we may be busy with meetings, bombarded with important administrative duties, and drowning in deadlines, but being new definitely has its perks. Here are my top five reasons why it's good to be the new guy.

*Craig M Phelps D.O.*

Craig M. Phelps, DO, '84, president

## 5 reasons it's good to be the new guy

5. Everyone is so nice!

4. No one gets mad when I drink all the coffee.



3. Shaking that many hands is actually a good workout.



2. I have a year before I have to learn to work the copy machine by myself.



1. Thank goodness everyone wears name badges!

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## Our mission

A.T. Still University of Health Sciences serves as a learning-centered university dedicated to preparing highly competent professionals through innovative academic programs with a commitment to continue its osteopathic heritage and focus on whole person healthcare, scholarship, community health, interprofessional education, diversity, and underserved populations.

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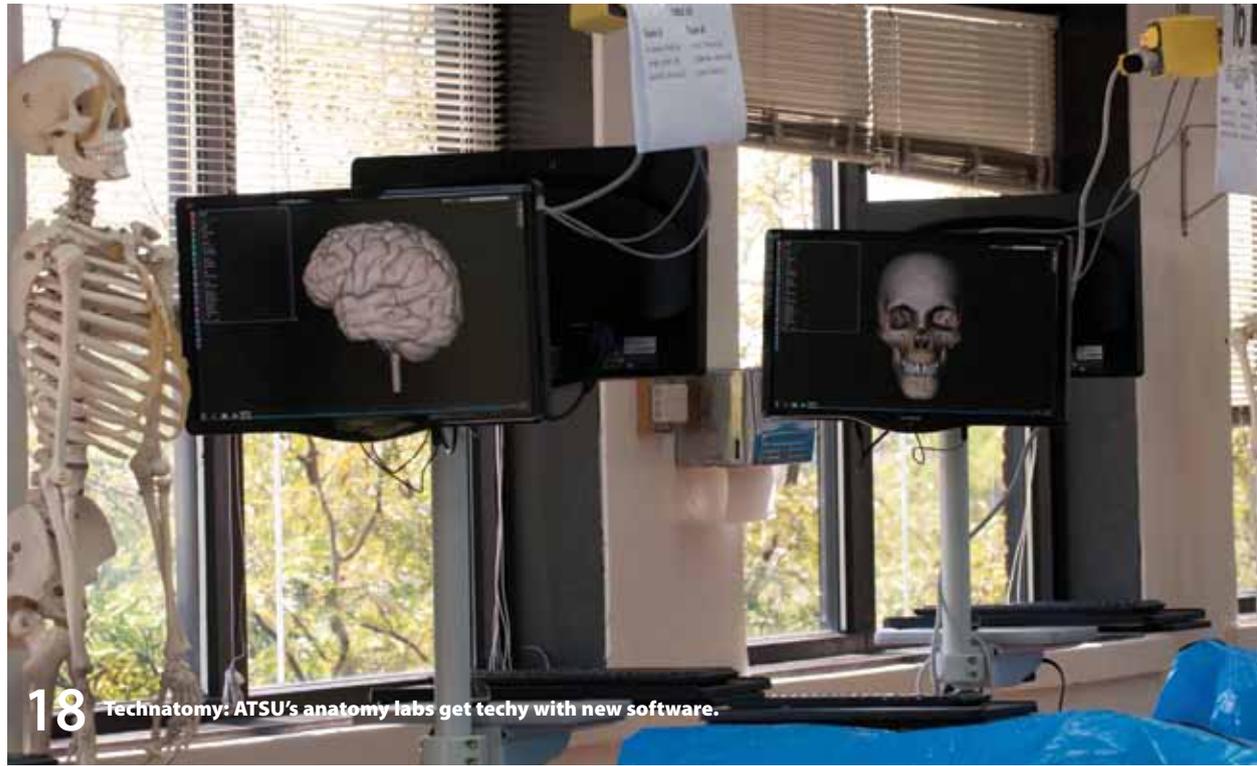


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*Still Magazine* strengthens and extends the positive connections of alumni, faculty, staff, and students to the University and each other by informing, entertaining, and engendering pride in a shared experience and University mission. The magazine focuses on a variety of academic, social, political, cultural, scientific, and artistic issues through the lens of student and alumni achievements, faculty research, and institutional news.



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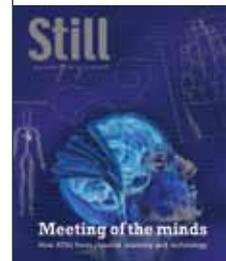
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**“You can't take a cadaver home with you, but you can study Cyber-Anatomy on your home computer.”**

**- William Robinson, DPT, PhD,  
assistant professor of anatomy, SOMA**



Cover design  
by Ann Bailey



### Pregnancy brain

With just days before I welcome my second child into the world, motherhood has been top of mind for me lately! You've probably heard the term "pregnancy brain"—you know, the pitiful, forgetful mental condition of an expectant mother.

Yes, pregnancy has caused me to do things I normally wouldn't, like excitedly snarf down a Sausage McMuffin® with a bowl of carrot cake ice cream or accidentally pay my water bill twice. But, I can honestly say that motherhood has sharpened my focus and made me more creative in new ways. All the crazy, fun experiences that come with being a mom have even helped me write and edit this magazine. Let's just hope I can say the same after baby No. 2!

Back in six weeks,

*Lee Cashatt*

Lee Cashatt, editor

## I love mail!

Please send letters to the editor at

[stillmagazine@atsu.edu](mailto:stillmagazine@atsu.edu).

from the editor

### Winner's circle

## Photo caption contest

**"Go on, Craig. That's only a rumor that the President's Office motto is 'Hair today, gone tomorrow!'"**

Submitted by: Jeffrey K. Pearson, DO, '83, San Diego, Calif.

See our honorable mentions exclusively online at [stillmagazine.atstu.edu](http://stillmagazine.atstu.edu).



### Letters to the editor & online comments

#### Kudos

The latest edition of *Still Magazine* is outstanding, maybe the best I've seen since starting here in 1987.

Randy Rogers, CFP®

Associate Vice President, University Advancement, ATSU, *Kirkville, Mo.*

#### Take cover

It is far better to have a half-headed cover than a half-assed cover. Good job in getting attention!

Bernard S. Fellner, MPH, '08, *Denver, Colo.*

#### ER overuse

Overuse of the emergency room is in large part due to lack of access to patients' caregivers in a time frame that matters. The health economy can only be fixed by improving compliance to healthcare standards by doctors and patients together for preventive health and chronic disease management. Otherwise, this country will always have an increasing stream of patients requiring advanced care that is preventable.

Stephen A. Kardos, DO, '68, *Rumson, N.J.*

In response to "5 big ideas: Anti-dependency," *summer 2012*

#### Debt of gratitude

Love this interview! Brought a tear to my eye ... I had the good fortune to interview Sted Denslow, DO, for our school paper "Still Kickin'" in Kirkville back in 1981. What a debt of gratitude we owe those who came before us in this long line, and what a wonderful legacy these student-mentor interactions provide for us.

Keith N. Byler, DO, '85, *Edwardsville, Ill.*

In response to "Then & now: What a difference 75 years makes," *summer 2012*

# Still

magazine

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Record a change of address with  
Alumni Relations at [alumni@atsu.edu](mailto:alumni@atsu.edu).

*Still Magazine is published three times per year by  
Communication & Marketing, A.T. Still University.*

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## Write to us

at [stillmagazine@atsu.edu](mailto:stillmagazine@atsu.edu)!

*Letters will be edited for style and length.*

A woman with blonde hair tied back, wearing a blue cardigan over a black top, is using electric clippers to shave a man's head. The man is wearing a white patterned barber cape and has a slight smile. They are outdoors with green foliage in the background.

## In brief

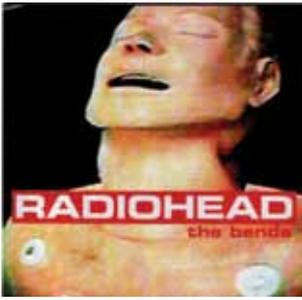
### **Bald, buff, and beautiful** *PA students raise \$4k, shave heads*

In a heartfelt demonstration of their pledge to fight childhood cancers, ASHS physician assistant students held a fundraiser in which they vowed to shave their heads for every \$1,000 raised to benefit St. Baldrick's Foundation, a volunteer-driven charity committed to funding research to find cures.

Together with the Kettle Society, students dedicated the month of March to St. Baldrick's and also sponsored a hike of Camelback Mountain and a bake sale to raise funds for pediatric cancers, raising more than \$665 in one day.

"During the month of March a total of \$4,082 was raised, and because of this, we upheld our side of the deal, but the spirit spread quickly and 11 students ended up shaving their heads (including one professor)," said Payton Leonhardt, PA, '13.

**A seemingly apprehensive Stephen Allan, PA, '13, allows Rebecca Martin, PA, '13, to shave the last strands of hair from his head.**



Excerpt:  
**“Bones”**  
 by Radiohead

I don't want to be crippled cracked  
 Shoulders, wrists, knees, and back  
 Ground to dust and ash  
 Crawling on all fours

When you've got to feel it in your bones  
 When you've got to feel it in your bones

Radiohead guitarist and vocalist Ed O'Brien is the son of Dr. John O'Brien, a retired London osteopath who established the National Osteopathic Archive located at the British School of Osteopathy—the European counterpart to ATSU's Museum of Osteopathic Medicine<sup>SM</sup>. Ed co-wrote “Bones” about osteopathic manipulation in the 1995 album “The Bends.” The album cover is an image of the Resusci Anne manikin made by Laerdal Medical Corp.

Listen to the full version of “Bones” at [stillmagazine.atsu.edu](http://stillmagazine.atsu.edu).

## Coast to coast



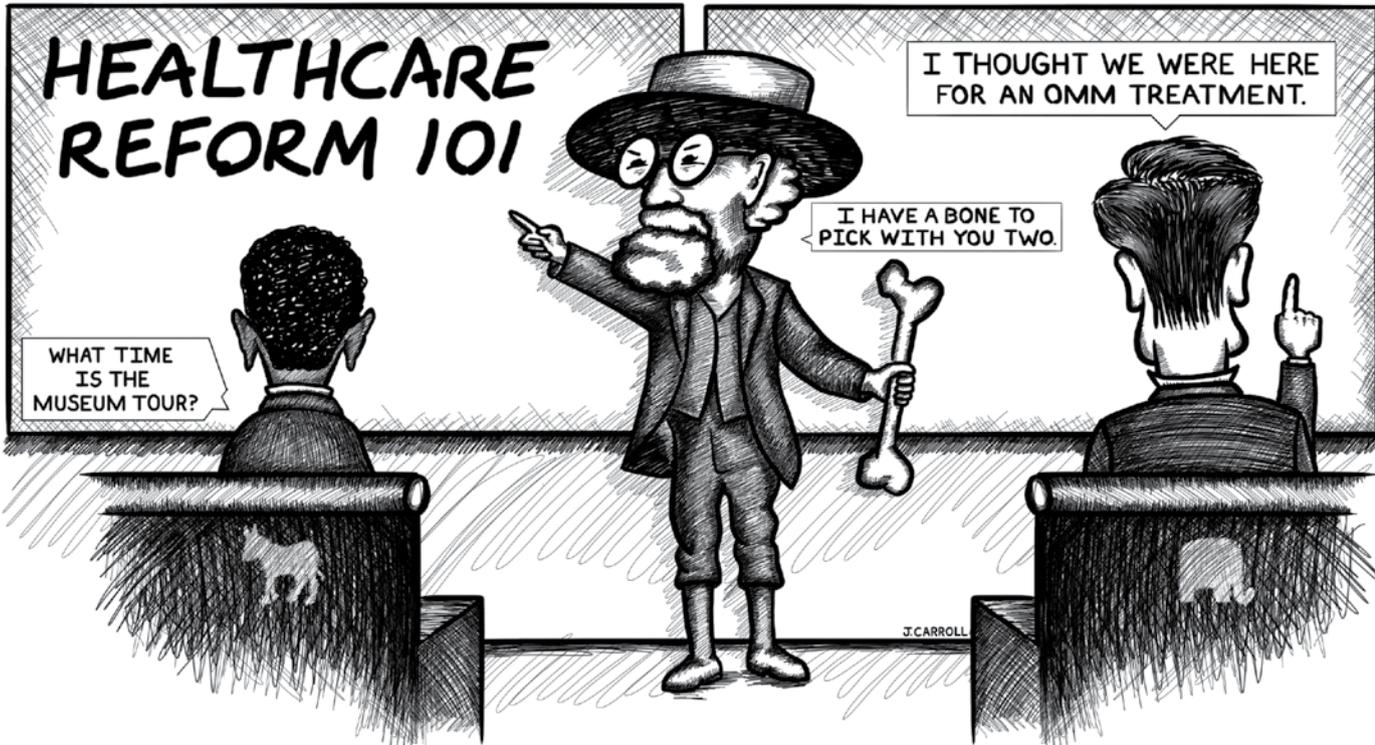
### In the Big Apple with *Still Magazine*

Neha Kachroo, DPT, '11, reads *Still Magazine* on Broad Street in New York City.

Send your fun photos to [stillmagazine@atsu.edu](mailto:stillmagazine@atsu.edu) and tell us where you read your copy.

**3.8%**  
 increase

in tuition  
**2012-13**  
 academic year



hot sheet

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# Headliners

These notable speakers have taken a leading role at ATSU events.

## Bill of health

Congressman Blaine Luetkemeyer traveled Missouri's 9th district in March, making a stop at ATSU's Gutensohn Clinic in Kirksville. During his visit to the Kirksville Family Medicine Resident Clinic, Luetkemeyer met with pre-med students from Truman State University, ATSU students, senior residents, and physicians to discuss health-care in the state and nation.



## Age is just a number

"There are more people who are living past 100 these days," said Christa M. Hojlo, PhD, RN, NHA, at ATSU's 8th annual Lecture on Aging in April. "Many of us are going to be caring for people who are very old, so it's time to pay attention to the process of aging and recognize that we don't have to fear caring for people in those later years. Aging is a normal process."

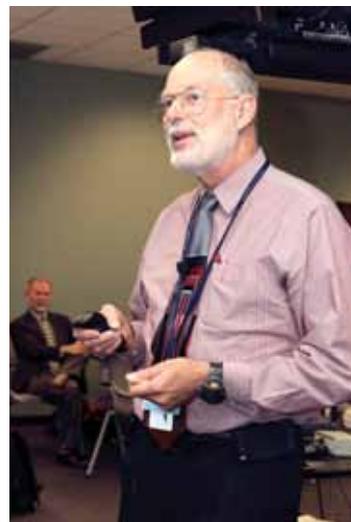
Dr. Hojlo is director of VA Community Living Centers, U.S. Department of Veterans Affairs, Washington, D.C. The Lecture on Aging is sponsored by the ATSU Aging Studies Project, a University-wide program with a mandate for community outreach to elders and service agencies.

## Whole new ballgame

"The work done at ASDOH impacts people not only in their childhood but for a lifetime," said Scott Smith, mayor of Mesa, Ariz., at the ribbon-cutting and dedication of the Arizona Diamondbacks Pediatric Dental Suite held June 4.

ASDOH received a \$50,000 Arizona Diamondbacks Grand Slam Award, with which two child-friendly rooms were established at the School's Mesa dental clinic.

"We are taking our young patients out to the ball park without leaving their dental chair," added ASDOH Dean Jack Dillenberg, DDS, MPH. "Our pediatric patients will receive the best dental care in a fun environment with Baxter and views of center field."



## Aim high

"Set your sights high," Thomas E. McWilliams, DO, FACOFP, advised students at a Hero Healers luncheon on the Arizona campus. "You're in a profession where the possibilities are endless."

Dr. McWilliams, associate dean, graduate medical education, SOMA, shared his experiences in frontier medicine as part of the Alaskan Native Health Foundation initiative.

**Norine Eitel, MBA**, is the new assistant to the president and secretary to the Board of Trustees. Eitel has been with ATSU since 1984, serving in numerous roles, most recently as director, sponsored programs. She

has served on various boards and committees, including the Institutional Review Board, Self-Study Steering Committee for NCA accreditation, Founder's Day, and the United Way.



Eitel

**Jason Haxton, MA**, director, Museum of Osteopathic Medicine<sup>SM</sup>, distributed 20 special edition copies of "The Hunger Games" by Suzanne Collins to individuals in the Kirksville community. Part of an international effort called World Book Night, 25,000 book givers across the United States gave away books to those in need, free of charge. World Book Night is a non-profit organization supported by book publishers, book stores, and literary organizations in the United States, United Kingdom, and Germany.

Haxton also received a Medallion Service Award from the Missouri Association of Osteopathic



Haxton

Physicians and Surgeons on May 5. He was nominated for his work in promoting the osteopathic profession and heritage through the museum.

**Lori Haxton, MA**, assumed the role of vice president for student affairs in May. She also received a Medallion Service Award from the Missouri Association of Osteopathic Physicians and Surgeons on May 5. She was nominated for her 23-year dedication to the students of ATSU and the osteopathic profession.



Haxton

**Jack Magruder, EdD**, who received ATSU president emeritus status at his retirement event on June 29, also was presented with a surprise proclamation for his outstanding leadership by the Board of Trustees at their May meeting. Dr. Magruder's wife, Sue, also received the special designation of first lady emerita.



Dr. Magruder

**Dan Martin, MA**, director, Thompson Campus Center, received a 2012 Distinguished Service Award from the Missouri Bicycle and Pedestrian Federation at a ceremony held April 2 in Jefferson City, Mo.



Martin

ATSU President **Craig M. Phelps, DO, '84**, was named a Most Admired CEO & Top-Level Executive in the *Phoenix Business Journal's* 4th annual listing. Dr. Phelps was chosen as one of the Phoenix-area's 25 most admired executives based on past achievements and ongoing outstanding leadership. Consistent values, vision, solid decision-making, and commitment to quality were among the award criteria.



Dr. Phelps

**Tonya Watson, MBA, PHR**, assistant director, human resources, Arizona campus, was awarded the Still-Well Distinguished Achievement and Advocacy Award in recognition of her unwavering personal and profes-



Beth Poppe & Watson

sional commitment to promote, encourage, and facilitate wellness experiences for students and employees.

**Ted Wendel, PhD**, vice president for Arizona operations & special assistant to the executive vice president for strategic initiatives, is leading the initiative to develop ATSU's presence in San Diego, Calif. In the coming year, Dr. Wendel will spend half his time on the San Diego project and continue his duties leading Arizona campus operations.



Dr. Wendel

**Douglas L. Wood, DO, PhD**, senior vice president-academic affairs, retired June 30. Dr. Wood began his journey at ATSU as founding dean of SOMA, building it from the ground up and creating an innovative curriculum that has been recognized nationally as a model for medical education. He served as VPAA since 2010, unifying the five academic units of ATSU under one leader. In this position he served as co-chair of the University Strategic Planning Committee and the Strategic Plan Implementation Committee.



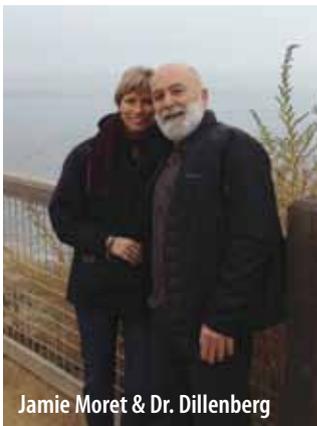
Dr. Wood

# faculty news

## ASDOH

**Jack Dillenberg, DDS, MPH,** dean, was one of six dentistry professionals elected to the National Academies of Practice (NAP) in honor of achievements and contributions to the health-care profession. Practitioners and scholars are nominated and elected to NAP based on strict criteria that ensure the highest level of professionalism among members.

Dr. Dillenberg also donated \$50,000 for the creation of the



Jamie Moret & Dr. Dillenberg

Jack and Jamie Learning Center at ASDOH's Center for Advanced Oral Health Education. The 3,400-square-foot multi-use facility will serve as a classroom, continuing education center, and community hub. Learn more about The Center for Advanced Oral Health at [www.atsu.edu/asdoh/caohe](http://www.atsu.edu/asdoh/caohe).

Dr. Dillenberg is also the recipient of the 2012 Arizona Medical Association Humanitarian Award. The award recognizes programs and individuals who go above and beyond their profession to help underserved communities receive medical care and other healthcare services that lead to the betterment of their lives.

**Tony Hashemian, DDS,** assistant professor and assistant dean, was a recipient of *Arizona Business Magazine's* 2012 Healthcare Leadership Awards as Dentist of the Year.

**Herb Kaufman, DDS,** was promoted to associate dean, clinic operations.

**Jae Hyun Park, DMD, MSD, MS, PhD,** director, postgraduate orthodontic program, had his article selected as "Case of the Month" in the March 2012 issue of the *American Journal of Orthodontics & Dentofacial Orthopedics*. In the article, "Angle Class III Malocclusion with Cleft Lip and Palate: Non-Surgical Treatment," authors discuss the treatment of a 26-year-old female with Angle Class III malocclusion, missing maxillary lateral incisors, and an eptopic maxillary right canine.

Dr. Park also published a book chapter, "Clinical considerations of open gingival embrasures," which was selected to be the first article in the "Treatment approaches in periodontitis" section of *Pathogenesis and Treatment of Periodontitis* (published by InTech).



Dr. Park

**Maureen Romer, DDS, MPA, FADPD, DABSCD,** has been named Special Care Dentistry Association (SCDA) board president for 2012-13. SCDA is an interna-

tional organization of oral health professionals and other individuals dedicated to providing service to and promoting the oral health of patients with special needs.

Dr. Romer is associate dean, post-doctoral education, and associate professor and director of special care dentistry at ASDOH.



Dr. Romer

## ASHS

**James W. Farris, PT, PhD,** is the new physical therapy chair. Dr. Farris has been with ASHS since 2008. Prior to that, he spent 13 years teaching PT, with five of those as program director and department chair at Arkansas State University.

The ATSU chapter of the Student Academy of Audiology (SAA) presented awards of appreciation to audiology staff members **Melanie (Kropp) Gibson,** program manager, and **Jennifer Apel,** administrative assistant. The awards were presented by Krystal Hulleman, president, SAA, for their dedication to and support of the local SAA chapter events and activities.

**Tamara Valovich McLeod, PhD, ATC, FNATA,** associate professor, athletic training, will serve as section editor for the *Journal of Athletic Training (JAT)*. JAT is the flagship journal for the athletic

training profession and one of the most respected journals in sports medicine.

Dr. McLeod is one of only 13 section editors. Section editors are assigned to broad topical areas, and Dr. McLeod will serve in the "Examination, Treatment, and Rehabilitation" section. She will coordinate peer reviews for submitted articles and make final recommendations to the editor-in-chief about the acceptability of an article for publication.



Dr. McLeod

**Bernadette Mineo, PhD, OTR/L,** associate professor and chair, occupational therapy, has been selected for the editorial board of the *Open Journal of Occupational Therapy (OJOT)*. OJOT is a new peer-reviewed, open-access journal that publishes high-quality articles focusing on applied research, practice, and education in the occupational therapy profession.



Dr. Mineo

**Robert Nee, PhD**, associate professor, physical therapy, received his doctor of philosophy in physical therapy from The University of Queensland.



Dr. Nee

**Albert "Bert" F. Simon, DHSc**, was named chair, physician assistant studies. A SOMA faculty member since 2005, Dr. Simon most recently served as special assistant to SOMA's dean and special assistant to ASHS' dean. He also served as vice dean of SOMA.



Dr. Simon

**Kevin Marberry, MD**, is the new interim chair of the Department of Surgery. Dr. Marberry graduated from the University of Missouri (1999) and is board certified by the American Board of Orthopaedic Surgery. Dr. Marberry has an active practice in Kirksville with North Missouri Sports Medicine and Orthopaedic Surgery.



Dr. Marberry

**Joseph Novinger, DO, '89**, has been named interim chair of the Department of Family Medicine.

Dr. Novinger is board certified by the American Osteopathic Board of Family Practice and has an active practice in Kirksville with the Northeast Missouri Health Council Inc.



Dr. Novinger

**Jeffrey A. Suzewits, DO, '88, MPH**, associate dean, clinical educational affairs, is the recipient of the Above and Beyond Humanitarian Award. Dr. Suzewits was nominated by Alicia Apple, OMS IV, for his personal attention

in advocating for students, especially in solving scheduling and rotation testing issues during his time as KCOM's interim dean.



Dr. Suzewits

## SHM

**Erin Breitenbach, PhD, DHEd** program chair, was accepted to Harvard Graduate School of Education. The program began in June.



Dr. Breitenbach



Dr. Kondrashov & Isela Padilla, OMS II



Dr. Chamberlain & Isela Padilla, OMS II

## KCOM

On April 11, **Peter Kondrashov, PhD**, anatomy chair, and **Neal Chamberlain, PhD**, professor, microbiology/immunology, were voted by first- and second-year students respectively to each receive the Max T. Gutensohn Teaching Award. Both Drs. Kondrashov and Chamberlain are previous award winners.

# SOMA

**Gary Cloud, PhD, MBA**, associate dean, received the 2012 Arizona Osteopathic Medical Association Distinguished Service Award presented at the AOMA annual Presidential Reception, Gala, and Awards program held April 20.



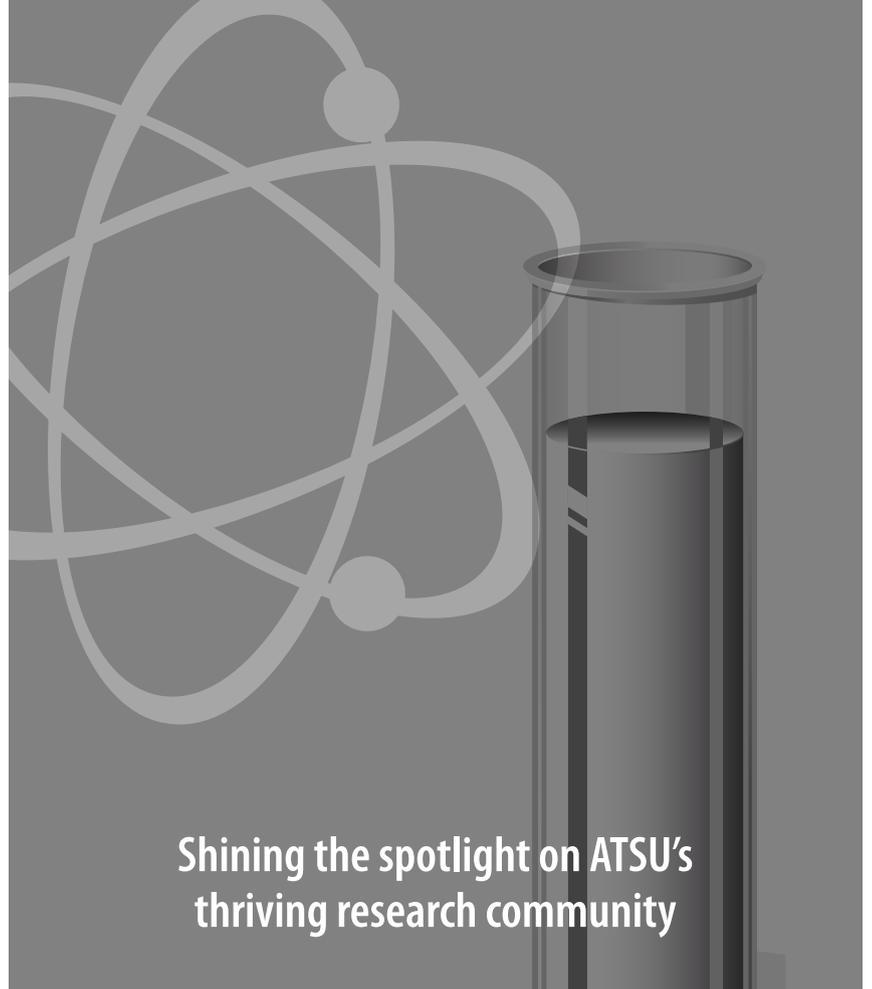
Dr. Cloud

**Thomas E. McWilliams, DO, FACOFP**, associate dean, graduate medical education, was named 2012-13 president of the Arizona Osteopathic Medical Association. Dr. McWilliams was installed at the AOMA House of Delegates meeting April 19.

“During the next year it is my hope to focus attention on the important role that osteopathic physicians play in meeting the healthcare needs of Arizona’s citizens, particularly in the primary care specialties,” said Dr. McWilliams.



Dr. McWilliams



Shining the spotlight on ATSU's thriving research community

# 5 big ideas





# ASDOH The digital age

Last year, Robert MacArthur, D4, spent six weeks conducting research in the Department of Restorative Dentistry & Biomaterials Science at the Harvard School of Dental Medicine under the tutelage of Drs. German Gallucci and Sang Lee. This spring, his research on digital impressions gave him the win at ASDOH's student research day. MacArthur is also working on his MPH and just completed a summer internship on the Caries Free Communities Initiative at the Pan American Health Organization.

Why is your research important?

Digital impressions provide several benefits to patients and practitioners, including a more pleasant patient experience, 3-D visualization of the tooth, potential cost and time effectiveness, and less waste production. My research compared the efficiency of a digital, 3-D impression process (using an intraoral camera) to that of the conventional method (using a putty-like material). Preparation time, working time, retake time, total time, and the number of retakes were analyzed.

What do you hope to achieve?

Results yielded the digital model to be more efficient over the standard, conventional impression technique; these findings validate the clinical relevance of the digital system. The digital approach saves considerable time and resources that benefit both the dental practitioner and the patient.

What is the next big idea?

In my opinion, translating the digital concept of impression-taking into complete denture development is the next big idea. Scanning an edentulous area in a patient's mouth and virtually placing teeth on a digital model sent for fabrication completely defies current methodology for denture prosthetic fabrication.



# ASHS Fever pitch

Doctor of health sciences student Kyrus Patch, MS, PA-C, takes the temperature of dengue fever, a potentially fatal disease thought only to affect Southeast Asia, South America, India, and the Caribbean. Patch is associate department chair of the PA program at Nova Southeastern University, Fort Myers, Fla. Her work on the subject was published in the March 2011 issue of the *Journal of the American Academy of Physician Assistants*.

Why is your research important?

In 2009-10, an outbreak of dengue was reported in Key West, Fla. All cases had no ties to recent travel and were considered locally-acquired. This information is vital to alerting practitioners to the possibility of dengue in their patient population and that patients presenting with fever and flu-like symptoms should be questioned about recent travel and mosquito bites (dengue is transmitted by the *Aedes aegypti* mosquito). Rapid recognition leads to effective treatment, a significant reduction in mortality, and better mosquito control by local agencies.

Most important scientific achievement of the past five years?

Most significant is the continuing work on a vaccine. To date, this has not been successful as there are four types of dengue lending more difficulty to the process. Vaccine research, however, is an ongoing process and looks promising.

What is the next big idea?

Next is the successful implementation of a usable vaccine, and there has been some interesting ongoing experimentation with using genetically-altered mosquitoes released in the Caribbean. These mosquitoes will hopefully help eliminate dengue-carrying mosquitoes.

REVIEW ARTICLE

### Dengue fever: Potentially fatal, and now emerging in the United States

Long thought to be endemic only in other parts of the world, dengue is the focus of an investigation in Key West, Florida, site of a recent outbreak of locally acquired disease.

**Kyrus Patch, MS, PA-C**

Dengue fever is a potentially fatal viral disease that is transmitted by mosquitoes. In the Caribbean, South America, India, and the Pacific Islands, dengue fever is a common and often debilitating disease. In the United States, dengue fever is a rare but potentially fatal disease. In 2009-10, an outbreak of dengue fever was reported in Key West, Florida. This outbreak was the first reported outbreak of dengue fever in the United States since 1965. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease.

**INTRODUCTION**

Dengue is transmitted by the *Aedes aegypti* mosquito, which is a common and often debilitating disease. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease.

**CONCLUSION**

Dengue fever is a potentially fatal viral disease that is transmitted by mosquitoes. In the Caribbean, South America, India, and the Pacific Islands, dengue fever is a common and often debilitating disease. In the United States, dengue fever is a rare but potentially fatal disease. In 2009-10, an outbreak of dengue fever was reported in Key West, Florida. This outbreak was the first reported outbreak of dengue fever in the United States since 1965. The outbreak was caused by the *Aedes aegypti* mosquito, which is a common and often debilitating disease.



FIGURE 1. The *Aedes aegypti* mosquito.

DOI:10.1002/ajpa.21011

5 big ideas

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## KCOM

# Head games

**P. Gunnar Brolinson, DO, '83, FAOASM, FAAFP, FACOFP, is sports medicine chair and associate dean for clinical research at Edward Via College of Osteopathic Medicine. He is also head team physician for Virginia Tech Hokies football, as well as the U.S. Olympic Ski Team. Dr. Brolinson's study on traumatic brain injuries (TBI) has garnered national attention.**

### Why is your research important?

TBIs are responsible for an estimated 50,000 to 75,000 deaths in the United States each year, with an additional 1.5 million suffering from various severities of head injuries. There is much debate on what biomechanical parameters induce TBI. Our previous research collected biomechanical data to characterize brain injury in high school and collegiate athletes, who are at high risk for concussive injury. This past season we also instrumented the helmets of youth football players with a sensor capable of measuring the linear and angular acceleration that the head experiences with every impact. By collecting data from injurious and non-injurious head impacts in both practices and games, insight about thresholds and brain injury mechanisms were discovered.

### How has your study made an impact?

There are 3.5 million youth football players in this country, and they are the most poorly studied of athletes participating in helmeted sports activities. In contrast, there are 1.3 million high school players and 100,000 collegiate players. This research allows for better characterization of head impacts, which may lead to improved helmet design, as well as rule changes to protect young athletes. Based in part on our research, significant rule changes have been implemented in Pop Warner Football for the upcoming season.



## SOMA

# Curriculum innovation

**An advanced approach to medical education, the Clinical Presentation Curriculum (CPC) teaches medicine by focusing on how patients present themselves for care. Research on the subject by SOMA Associate Dean Frederic Schwartz, DO, '69; Associate Chair Mara Hover, DO; Curriculum Specialist Lise McCoy, MTESL; and Data Manager Marjorie Buick-Kinney, BA, was published in the July 2012 edition of *Medical Science Educator* by the International Association of Medical Science Educators.**

### Why is your research important?

We surveyed medical student and faculty impressions regarding SOMA's CPC and contextual learning at Community Health Centers (CHCs) to investigate how this model was working. We wondered if students and faculty felt sending students to community campuses for mentorship and training in years two through four was an effective educational approach.

### Most important scientific achievement of the past five years?

The CPC model was fully implemented at five medical schools: SOMA, University of Calgary, Kansas City University, Foster School of Medicine at Texas Tech, and Ohio University Heritage College of Osteopathic Medicine.

SOMA just completed its fifth year of successfully implementing early clinical experiences at community campuses.

The partnership between SOMA and the National Association of Community Health Centers provides contextual learning experiences that will induce new graduate physicians to care for the medically underserved.

### What is the next big idea?

Next is to articulate and disseminate the model to the general public and other healthcare schools interested in advancing their own curricula. For this reason, ATSU launched a new organization called the Clinical Presentation Curriculum Learning and Research (CLEAR) community. The first international meeting was held on the Arizona campus in June. When schools using this model join forces, we can collaborate on projects to benefit all our students.

## For more research

For complete information on research published by ATSU faculty, visit the Publications tab on [iconnect.atsu.edu](http://iconnect.atsu.edu) and check out the *Grants & You* and *ATSU Research* newsletters.





SHM

# Herd immunity

David Line Denali, PhD, MPH, MSW, assistant professor, MPH program, and Caya Muranaka, MPH, '12, tested a health education presentation intended to increase vaccination rates at the National Rural Health Association Conference and at Arizona clinics.

Why is your research important?

We hope to determine if increasing an awareness of herd immunity increases vaccinations rates. Should it be determined that herd immunity does in fact influence one's decision regarding vaccinations, then it would be appropriate to further educate the general public about the concept in an effort to increase vaccination coverage.



Most important scientific achievement of the past five years?

We have seen significant success of vaccinations in terms of decreased hospitalizations and healthcare-related costs, as well as a decrease in deaths due to vaccine preventable diseases. However, what is most important is the negative impact of junk science and popular media on the topic. Vaccine misinformation negatively impacts vaccination uptake. While misinformation has linked vaccines with diseases that have no known cause, current evidence does not support such associations. Despite the lack of evidence linking vaccinations to adverse events, media coverage has created a lack of trust in vaccine safety.

What is the next big idea?

If we can surge the connection of volunteerism and getting vaccinations, then we can use the civil consciousness to increase vaccination rates. Further, we can make a compelling argument in public service announcements that getting vaccinations helps increase the health status of the community due to the fact that vaccine preventable diseases are spread person-to-person.

# Still

magazine



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**Don't miss this world-class opportunity!**

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Photo credit: Chris Bradshaw / Shutterstock.com

continuing education

**Itinerary**

| Day     | Port                         | Arrive | Depart | Activity |
|---------|------------------------------|--------|--------|----------|
| Feb. 17 | Fort Lauderdale, Fla.        |        | 5 p.m. |          |
| Feb. 18 | Cruising                     |        |        |          |
| Feb. 19 | Cruising                     |        |        |          |
| Feb. 20 | Charlotte Amalie, St. Thomas | 7 a.m. | 6 p.m. | Docked   |
| Feb. 21 | Philipsburg, St. Maarten     | 7 a.m. | 5 p.m. | Docked   |
| Feb. 22 | Cruising                     |        |        |          |
| Feb. 23 | Nassau, Bahamas              | 1 p.m. | 7 p.m. | Docked   |
| Feb. 24 | Fort Lauderdale, Fla.        | 7 a.m. |        |          |

**For travel information, contact:**  
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660.626.2232 | 866.626.2878, ext. 2232 | Fax 660.626.2931  
cme@atsu.edu

## Two heads are better than one

*A deformed skull (left) tells a story of mystery and intrigue. Its flattened and elongated shape was likely caused by frequently tying a board to the top of the head, a custom practiced by some cultures as a symbol of beauty or status. While its exact age and origin is unknown, the atypical skull offers unique insight to students. From a medical perspective, altering the shape of a skull could lead to headaches, eating disorders, and other health-related issues.*

*The typical skull (right) is used as a teaching tool at the University. It is estimated to be less than 100 years old and likely came from a donated cadaver.*

Donor: Cranial Academy; Museum of Osteopathic Medicine<sup>SM</sup>, Kirksville, Mo. [1995.06.15]



All brains

Summer graduations

Altitude training

Magruder retirement

A photograph of five women standing in a row at a formal event. They are dressed in elegant, floor-length gowns. From left to right: a black dress, a silver sequined dress, a light blue sequined dress, a black dress, and a teal dress. They are all smiling and looking towards the camera. The background shows a large, dimly lit room with tables and chairs, suggesting a banquet hall or event space.

# Features

## Life of the party

*DMD grads sparkle at festivities*

ASDOH's class of 2012 celebrated in grand fashion at the fifth annual Founders' Ball on June 7 at The Phoenician in Scottsdale, Ariz. More than 300 guests attended the black tie soiree, which originated in 2007 as a way to honor ASDOH's Founding Member donors and celebrate the School's first graduating class.

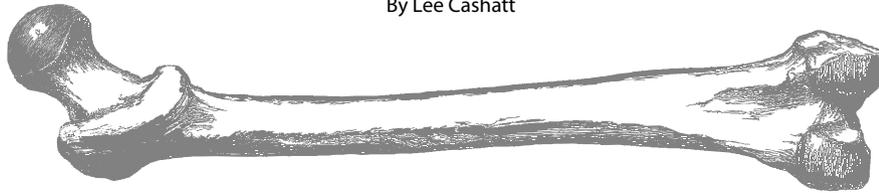
See more event photos exclusively online at [stillmagazine.atsu.edu](http://stillmagazine.atsu.edu).

(l-r) Monica Song, Cat Guerrero, Dariene Lazore, Dr. Kim Agnew, and Jacqueline Duong

# All brains

## ATSU takes the pulse of its anatomy programs

By Lee Cashatt



### **No bones about it, the anatomy labs at ATSU are pretty cool.**

From state-of-the-art computer software and a 3-D theatre to tried and true cadaver dissection and textbooks, the labs are a mighty source of knowledge and skill for students across disciplines. Both Arizona's and Missouri's facilities are finding new ways to integrate dissection and software, each putting student learning at the heart of its programs.

#### **Anatomy labs get smart**

Anatomy programs at ATSU are no strangers to change. Both programs have spent the last few years in transformation mode, questioning the status quo and asking tough questions about learning.

"Realizing that the goal of our institution is to create physicians in rural programs and family practice, the argument has been whether medical students who are not going into a surgical profession actually need cadaveric dissection," explains Jay M. Crutchfield, MD, FACS, assistant professor and administrative anatomy director, SOMA.

According to Dr. Crutchfield, a general surgeon trained in classical cadaveric dissection at Mount Sinai School of Medicine in New York, using cadavers to learn 3-D anatomy isn't a necessity.

"When students become physicians they will really see anatomy by X-rays, CT scans, and MRIs and not necessarily how a surgeon would in the operating room," he says. "This begs for a change in the way we teach anatomy. Cadavers are still very useful, but they're not the only way to teach."

This is why more technology was added to the program.

"An anatomy book is well-detailed, but it is not rotatable and you cannot piece apart the structures to appreciate the depths of the body," says Joshua Menefee, OMS III. "Books and cadavers may not give us sufficient structures to learn from, and we will be using radiography to look at the body during our careers anyway."

Second-year SOMA student Alicia Waite is grateful for the program's emphasis on radiology.

"It has come in handy while reviewing for boards—especially anatomy via CT scans," she says. "We are asked a ton of review questions about reading scans of different varieties."

In Missouri, full-body cadaver dissection is emphasized. The lab, which was renovated little more than a year ago, is one of few in the country to operate solely on a body donation program.

"The course is heavily hands-on and dissection-based," says KCOM Anatomy Chair Peter Kondrashov, PhD. "We probably have one of the best student-per-cadaver ratios in terms of number of students and the time students spend dissecting. We are probably in the top 5-10 percent [in the country]."

According to Dr. Kondrashov, dissection is a classical part of medical education and is an essential learning tool.

"No one has invented anything better than the human body to teach about the human body. I've looked into all kinds of things and still the human body is the most awesome teaching tool," he says.

While dissection is pivotal to the program, technology plays a vital role. Dr. Kondrashov, who has been with KCOM since 2007 and chair since 2010, recognized that the lab was in need of a pick-me-up (see its new features on p. 20-21) and that students could use a dose of engagement and relevance in class.

"We observed two worrying trends associated with the course for first-year medical students," he explains. "The first was

a decline in anatomy sub-scores on the COMLEX 1 exam. The second was overall student dissatisfaction with the course.”

To address these issues, the course was significantly restructured. Students were divided into two groups. One group dissects in the lab while the other receives a related clinical presentation by a local physician in the classroom or masters anatomical concepts using ultrasound. The groups then switch places so the whole class goes through the clinical case/ultrasound lab.

“The students said the introduction of clinical cases helped them learn the material better by putting it into clinical context,” Dr. Kondrashov says.

When possible, clinical cases incorporate medical imaging

hybrid of a very traditional cadaver-based gross anatomy course with the best of available modern technology,” says Dr. Kondrashov. “We still rely heavily on what’s been the body and soul of the anatomy course for 100 years. We just take it a few steps further by adding technology and clinical correlations.”

Both campuses use online videos and several computer programs to aid student learning, such as Cyber-Anatomy, ToLTech VH Dissector, 4D Anatomy, and Online Dissector.

“As medical education questions the use of cadaveric dissection—and organ procurements and willed-body programs wane—technology is being used more and more,” says Dr. Crutchfield. “We use anatomical pro-

**“This begs for a change in the way we teach anatomy. Cadavers are still very useful, but they’re not the only way to teach.”**

— Dr. Crutchfield, SOMA

with related MRIs, X-rays, and CT scans to further illustrate anatomical structures. Portable ultrasounds were also added to the curriculum, allowing students to use this cutting-edge imaging technology on almost every part of the human body to learn “living” anatomy.

“The introduction of ultrasound was very helpful,” says Thomas Rountree, OMS II. “I saw ultrasound used several times during my preceptorship. Due to my training, I was able to follow along and recognize the images on screen.”

“Our efforts resulted in the implementation of a successful

grams, true to human anatomy dissection, and actual operative videos, CT scans, ultrasounds, and radiographs from my own collection.”

Arizona’s recently updated computer system with an overhead high-definition camera and two projection screens means students can throw on a pair of 3-D glasses and get up close and personal with human anatomy without a scalpel.

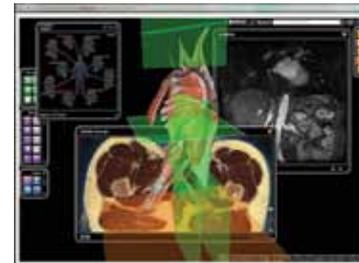
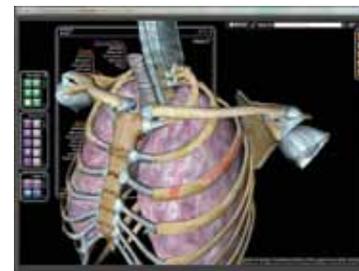
“3-D technology allows us to show difficult anatomy that isn’t well seen during dissection,” explains Dr. Crutchfield.

The inner ear, the nervous system, and some of the musculosc-



Portable computer workstations were designed and built by a former SOMA faculty member.

**Students in Arizona experience anatomy as close to real life as possible with Cyber-Anatomy software in the 3-D theatre.**



# I

## Software

Sixty computer stations (two at each table) are equipped with a video dissection guide and several types of 3-D anatomy atlases.

# 2

## Cadaver tables

Thirty new tables allow one body for six students.

# 3

## Dissection

KCOM is one of few schools that still has full-body dissection.

# 4

## Plastinates

Real human tissue is replaced with plastics and used as a teaching aid in the neuro anatomy lab.

# 5

## Textbooks

Classical textbooks such as *Grey's Anatomy* are a mainstay.

---

**Missouri's lab maintains  
a classical anatomy  
curriculum, with a twist.**

---



I

3

4

5

2



keletal system are all explored using computer software.

Plastinates are another mainstay in Arizona's lab. These teaching tools are odorless, don't decay, and retain most of their original properties. The models are mostly used for teaching neuroanatomy in Missouri.

"I loved plastinates for learning intricate anatomy," Menefee says. "They were key for observing some structures."

Sue Hillman, MS, MA, ATC, who has spent more than 16 years as human anatomy director on the Arizona campus, says the greatest student learning tool right now is instruction via iTunes because it can be individualized and accessed any time.

"We strip out salient parts of surgery videos and provide those to our students on iTunes," says Hillman. "Students who wish to review a video may download it and use it as they desire."

Cadaveric dissection still plays a role in Arizona. In an optional dissection course, students who desire to learn by this method receive



Arizona's lab is used by many disciplines—medical, dental, physical therapy, athletic training, and physician assistant students all make use of the facility.

**"We still rely heavily on what's been the body and soul of the anatomy course for 100 years."**

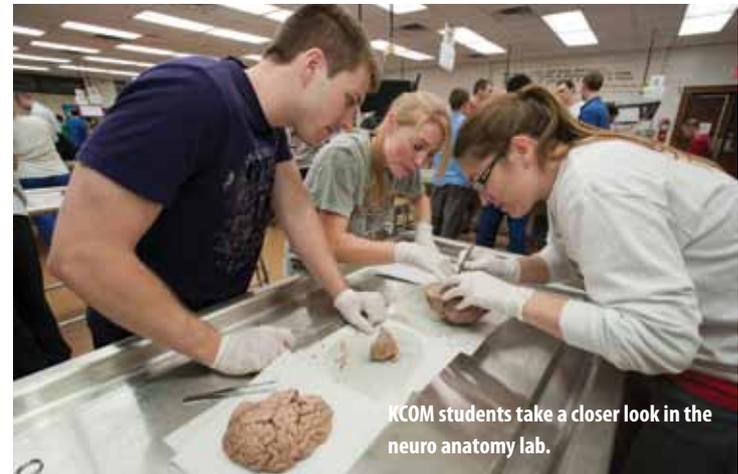
**— Dr. Kondrashov, KCOM**

hands-on training. This group of 10-12 students meets once a week and prepares dissected specimens to be used in lectures with the rest of the class. They even occasionally assist faculty in instructing classmates.

ASDOH's anatomy program, led by Wayne W. Cottam, DMD, MS, associate dean for community partnerships, also offers a dissection opportunity. Dental students take turns dissecting and teaching the dissection to classmates. According to Dr. Cottam, this allows students to learn the material quickly and integrate it to a level that they can teach it.

He feels that the combination of dissection and technology is integral to his class.

"You can learn the material you need from a book or software, and you can learn to do surgery without a dissecting a single thing," Dr. Cottam says. "What a cadaver provides you is a chance to work."



KCOM students take a closer look in the neuro anatomy lab.



KCOM students honor body donors at an annual memorial service.



KCOM Family Medicine Interim Chair Joseph Novinger, DO, '89, delivers a first-year clinical presentation on constipation.



First-year KCOM students Rebecca Jordan, Deanna Jarzabkowski, and Daniel Johnson perform a head and neck dissection.

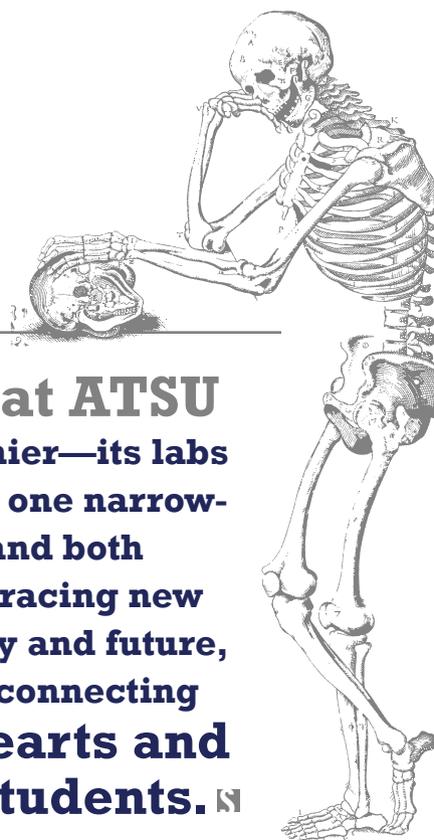
### Showing a backbone

Due to cuts in time and money, many programs across the country are shifting the way anatomy is taught.

“The traditional anatomy course is frequently being replaced with an integrated approach to medical education,” says SOMA Assistant Professor of Anatomy William Robinson, DPT, PhD. “An example of this is the clinical presentation curriculum that we use at SOMA.”

ATSU maintains that an intelligent fusion of software and dissection is the backbone to any successful program. After all, “You can’t take a cadaver home with you, but you can study Cyber-Anatomy on your home computer,” Dr. Robinson jests.

Both Missouri’s and Arizona’s anatomy programs highlight the need for students to learn in multifaceted ways as each uniquely combines traditional and up-and-coming methods to get the job done. Collaboration across campuses has been critical to each program’s success. Drs. Crutchfield and Kondrashov regularly share ideas and resources and are always on the lookout for ways to improve their programs.



**Anatomy at ATSU is getting brainier—its labs unrestricted to one narrow-minded track and both programs embracing new and old, history and future, and above all, connecting with the hearts and minds of students.**

# Things we love

## At the heart of commencement

58 people in stage party

109 ceremony length in minutes

187 applause breaks

157 grads

**Tears of joy**

**Kirksville College of Osteopathic Medicine**

May 12 commencement

Dr. Judy Hsu (right)

ATSU President Emeritus Jack Magruder, EdD, was emotional when KCOM Dean Margaret Wilson, DO, '82, surprised him on stage with a public tribute, thanking him for his leadership. "I feel pretty special about this class," Dr. Magruder said. "We came together four years ago, and we leave together."

14 keynote address length in minutes

13 no. of times Dr. A.T. Still was mentioned

92 grads

**Dressed to impress**

**School of Osteopathic Medicine in Arizona**

June 8 commencement

Innovators' Gala

Phoenix's Comerica Theater was aglow in a sea of emerald green commencement regalia. A symbol of students' dedication to helping others, the wearing of robes and hoods at graduation dates back to medieval times.

Graduates don traditional regalia while sporting personal style.

Photo credit: Mark Skalney

Loving ATSU isn't hard to do — especially when honoring hundreds of bright, compassionate graduates who walk the stage each year at commencement. You know the procession by heart, but here is what stole ours at this summer's celebrations.

ASHS hosted two commencement ceremonies during which degrees were awarded in audiology, physical therapy, health sciences, human movement, physician assistant studies, and occupational therapy (online and residential programs). This was Dr. Craig M. Phelps' first and second graduations serving as ATSU president.

**2** ceremonies  
**10** no. of times body, mind, spirit was mentioned

**418** grads

**Double the fun**

**Arizona School of Health Sciences**

**August 4 commencement**

This was the first time many online students had met face to face.

Photo credit: Grad Images

summer graduations

ASDOH grads take the Oath to the Profession at commencement.



**62** people in stage party  
**1** honorary degree

**110** ceremony length in minutes

**68** grads

**Arizona School of Dentistry & Oral Health**

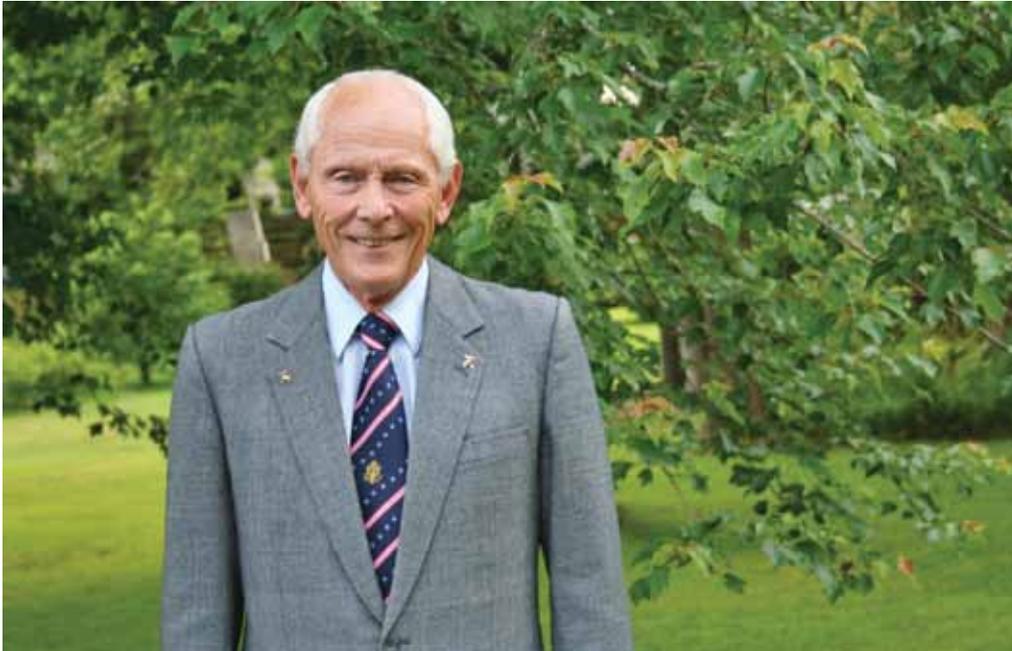
**June 8 commencement**

**Strength in numbers**

ASDOH is now the alma mater of the largest-ever cohort of American Indians believed to graduate from a U.S. dental school. Six American Indian students took an oath to provide compassionate oral healthcare to rural and underserved communities, including the reservations where they grew up.

# On top of the world

By Katie Thudium



Jack Daniels, PhD, is at the top of his profession, and literally, the top of the world. For more than 50 years, Dr. Daniels has dedicated his career to athletics and altitude training. Now, this two-time Olympic medalist, running coach, and author brings his expertise to the online classroom as an associate professor in ATSU's Human Movement program.

Dr. Daniels' interest in altitude training began in the '60s while working for a German doctor. When they heard the 1968 Olympics were going to be held in Mexico City, an altitude of 7,300 feet, they researched how to prepare American, sea level athletes for racing at altitude. This led to preparing athletes at altitude for sea level events.

"One of the biggest advantages of altitude training is you learn to hurt," says Dr. Daniels. "A normal workout feels more demanding than the same workout at sea level. Athletes learn to accept more discomfort, and when they go back to sea level, that new level of acceptance of discomfort is associated with a better performance."

Dr. Daniels, who has done much research on the topic, says altitude training is difficult to evaluate. Because many factors can contribute to an athlete's performance improving after returning from altitude, it is difficult for research to prove that training at altitude is the answer. However, in his studies, he has never seen a subject's performance decline.

While coaching at a New York college, Dr. Daniels took a female runner, whose best time in the 800-meter run was 2:39, to altitude for two weeks. He worked with her for two years, and she was doing well but wasn't making major improvements. After returning from altitude, she began improving. Over the next two years she competed nationally, winning first place in many events. She even won the Penn Relays' 10,000-meter race, running the last 800 meters in 2:31.

"If altitude provides a temporary benefit, then that girl should have only run well for a week or two, but she kept get-

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**"Winning Olympic medals isn't a big deal. What you win is not half as important as the journey on the way – the people you meet and the places you go."**

— Dr. Daniels

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ting better without ever returning to altitude," says Dr. Daniels. "She was the most improved runner I ever trained."

**Altitude training** – athletic training at altitudes of approximately 5,000-8,000 feet above sea level – causes an athlete to breathe harder because the air pressure is lower, making it more difficult to deliver oxygen to the exercising muscles. The lack of oxygen in the blood often creates more red blood cells. The increase in red

**blood cells theoretically improves an athlete's capacity to work, thus providing a competitive advantage.**

# What is altitude training?

Dr. Daniels knows runners who have actually moved to altitude because they believed so strongly in it, bringing their spouses and children along with them.

"If you're going to make that kind of commitment, you're probably going to train pretty seriously anyway," says Dr. Daniels. "Maybe it doesn't matter where you are."

Undeniably, Dr. Daniels has seen many athletes improve with some altitude training. For him, the question is, could those athletes have had just as much improvement if they hadn't trained at altitude?

Kenyan runners have been winning Olympic races for years, and most of them train at altitude. Conversely, Dr. Daniels' good friend and former lab assistant, Joan Benoit, never trained at altitude, and she was the first woman ever to win a gold medal in the women's marathon at the 1984 Olympics.



Dr. Daniels tests runners while riding on the front of a car in the 1960s.

"Plenty of successful people never train at altitude," Dr. Daniels says. "I can't say if they had done some altitude training they would have been even better. I think altitude training speeds up the process of an athlete reaching his or her highest potential."

Regardless of the research, Dr. Daniels loves running and training at altitude and encourages others to try it. He says the most important thing about training at any altitude is to treat each athlete as an individual, following basic training principles. What works for one may not work for another.

"I had one runner who averaged 240 miles per week for one year," says Dr. Daniels. "That's over 30 miles a day! He held an American record for 30 years, but that doesn't mean other people have to run that much to get the same results."

While Dr. Daniels has focused much of his attention on coaching top athletes, he is also passionate about the health and fitness of the country and is concerned about the lack of physical education in today's school system. He remains hopeful, though, because of the students he teaches at ATSU.

"I learn from my students every day," says Dr. Daniels. "They are amazing. If we can get enough people like these students out there to work with and encourage people to be fit and healthy, we're going to turn things around."

He sees firsthand the disinterest in running among America's youth.

"In this country, kids want to do other sports," Dr. Daniels says. "They associate running with punishment."

Dr. Daniels ironically began running because it was his worst event. He swam competitively and shot on the rifle team in college. While serving in the Army in Korea, he entered the Far East Triathlon Championships in Tokyo, Japan, which involved swimming, pistol shooting, and running.

"I had done shooting and swimming, so I thought, 'This is natural,'" says Dr. Daniels. "Anybody can run. There's no skill involved; it's just a matter of training."

After winning the triathlon, although placing last in the run, he began training for the modern pentathlon – an event comprising swimming, pistol shooting, running, fencing, and horseback riding. He learned to fence and ride horses, and ultimately took home an Olympic silver (Melbourne, 1956) and bronze (Rome, 1960) medal in the event. Despite his success, his weakness was still running.

"I wanted to learn how to run better," Dr. Daniels says. "So I studied running and did my PhD dissertation on running. The more I learned about it, the more I wanted to coach it."

Clearly he has been successful. Dubbed the "world's best running coach" by *Runner's World* magazine, Dr. Daniels takes his achievements in stride. Besides teaching online courses at ATSU, writing his biography, and of course, coaching runners, he is updating the third edition of his book, *Daniels' Running Formula*, a scientifically-based training guide.

Additionally, he still conducts research. He finished his latest study this summer and has his sights set on his next project: bringing back his original altitude subjects. He tested 26 elite distance runners for his dissertation in 1968; in 1993, he retested all 26 of them. Now, 45 years later, he hopes to bring them back and run those tests for a third time.

"After 25 years, you wouldn't believe how fit some of them were," says Dr. Daniels. "Now their average age is 69, and I can't imagine a more interesting longitudinal study on the physiology of elite athletes."

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**With one accomplishment after another, Dr. Daniels has certainly been enjoying his journey, and he continues to push himself - all the way to the top. ❧**

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On July 4, 1957, Dr. Daniels became the first foreigner to win the Swedish pentathlon championships. As he went forward to receive his award, a 10-year-old girl kindly gave him flowers.

"They didn't give her flowers to give to me; she picked them herself," Dr. Daniels says. "I'll never forget that. My picture with her is my favorite picture of all time."

## Reminiscing:

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# Dr. Daniels shares his greatest memories

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Photo credit: Sarah Tupper Daniels

Dr. Daniels had a Russian friend named Igor during the Cold War – a time when it was controversial to have a Russian friend. Igor, who happened to be the world's greatest athlete at the time, raced against Dr. Daniels every year for five years, and the two became good friends. One year, Igor brought him a wooden cluster doll as a gift from his wife.

"He must have talked about me to his wife because I never met her," says Dr. Daniels. "I certainly talked about him to my friends. For her to have never met me and give me a gift, you can't top that."

# The house that Jack built

## Celebrating an epic career in higher education



Dr. Phelps presents a caricature card of Dr. Magruder and Sue riding a horse. Dr. Phelps emceed both retirement events.

**“He will be greatly missed, but his touch on the University will remain.”**

- Craig M. Phelps, DO, '84  
ATSU president



Photo credit: Kelly Rogers

**Day 1:  
Retirement**

Dr. Magruder and Sue sip coffee on their front porch on July 1.

At two retirement events, ATSU said goodbye to its beloved president and his wife, Sue. Thanking the couple for their years of service were nearly a thousand guests across both campuses and communities. Building steadfast relationships in a time of transition, Dr. Magruder has undoubtedly left the University better than when he found it.



ATSU Board Member Dorothy M. Munch, DO, '85, surprises the Magruders with a gift.



**“We live in a better state because of you.”**

- Missouri Governor Jay Nixon, via video

## Honor roll

*Words of gratitude at the Mesa reception on June 22*

"It is always difficult to say goodbye to great people. What I always noticed most about you is your integrity and your genuine love for what you do."

—Randy Danielsen, PhD, PA-C,  
DFAAPA, ASHS dean

"Thank you for being a part of ATSU; thanks for your time, energy, and passion. It's been an amazing, exciting, and bittersweet time."

—James Bell, DDS, ASDOH vice dean

"I already knew that Jack could do this job, and he was the perfect man for the time. I know what kind of man I married 58 years ago, and I agree that he is stupendous!"

—Sue Magruder, ATSU first lady emerita

## Acclamation and admiration

*Highlights from the Kirksville reception on June 29*

- Multiple dignitaries presented Dr. Magruder and Sue with proclamations and other honors, including the City of Kirksville, Missouri Governor Jay Nixon, Secretary of State Robin Carnahan, and the House of Representatives and Senate.
- The ATSU Board of Trustees gave Dr. Magruder and Sue president emeritus and first lady emerita statuses.

## Well versed

*Excerpts from a poem read to Dr. Magruder and Sue at both events*

Great leaders can make  
Everyone play their part  
By treating people right  
With sincerity of heart

A legacy you've started  
Your caring is just so loud  
The class of 2015  
Will do our best to make you proud

Dr. Magruder and Sue  
What else can we say?  
Enjoy your time together and  
God bless you on your way

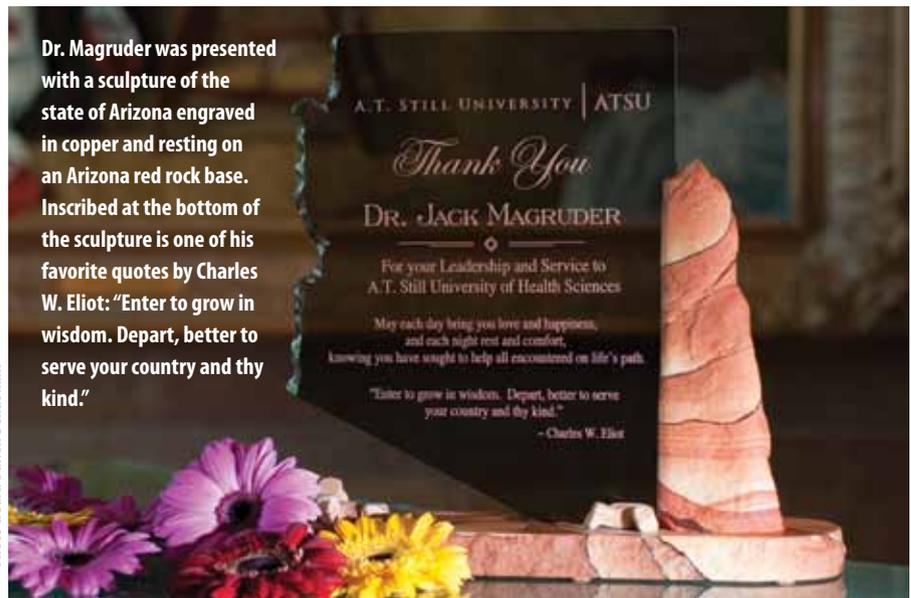


Photo credit: Darien Belluomini

Dr. Magruder was presented with a sculpture of the state of Arizona engraved in copper and resting on an Arizona red rock base. Inscribed at the bottom of the sculpture is one of his favorite quotes by Charles W. Eliot: "Enter to grow in wisdom. Depart, better to serve your country and thy kind."

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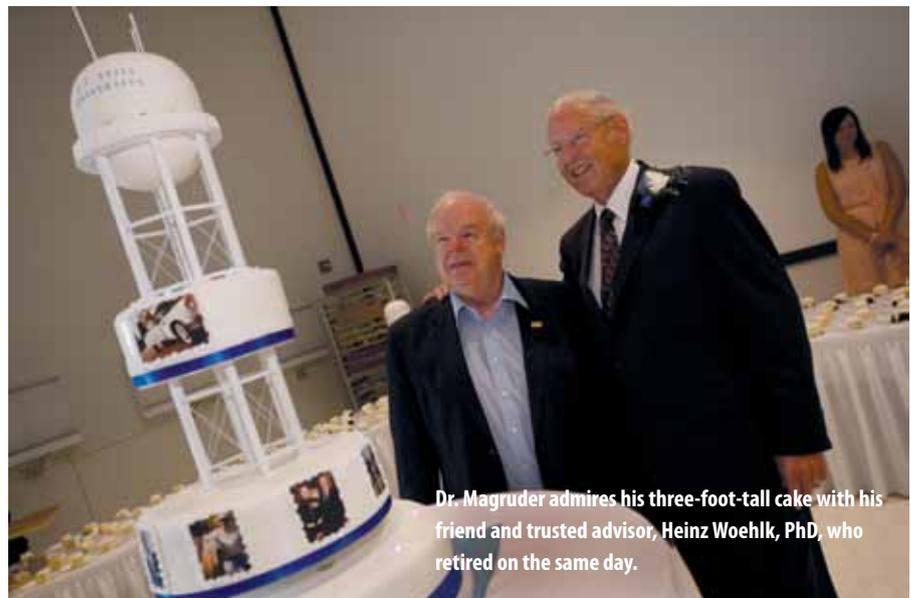


Photo credit: Darien Belluomini

Dr. Magruder and Sue embrace at their Mesa event.



Nearly 700 people attend the Kirksville reception.



Dr. Magruder admires his three-foot-tall cake with his friend and trusted advisor, Heinz Woehlk, PhD, who retired on the same day.

The M&M girls  
Breaking barriers  
On a mission  
The cookie doctor  
One smile at a time

# Inspiration

## Sweet tooth

*Dental students give kids something to smile about*

More than 300 underprivileged elementary school children from Mesa Public Schools and the Apache Junction Unified School District attended ASDOH's Give Kids a Smile® Day (GKAS) on April 13. Through a partnership with the Arizona Dental Foundation, ASDOH students and alumni participated for the seventh consecutive year along with volunteer dentists from around the Valley.

ASDOH's GKAS event has historically been the largest in the Southwest. This year also marked the 10th anniversary of GKAS in Arizona.

**This young patient was one of 324 children to receive needed oral healthcare free of charge.**

# The M&M girls

## Sheltie pair proves every dog has its day

By Lee Cashatt



(l-r) M&Ms Millie and Maggie

**Hot dogs** Six-year-old half-sisters Millie and Maggie are extremely well-behaved Shetland Sheepdogs. And they should be. After all, they've spent 3 ½ years in obedience training at a Maryland kennel club. Now the certified therapy dog duo volunteers at a local nursing home and school where they patiently listen as children with reading challenges practice aloud.

**Canine commander** Every Saturday and Sunday, Health Education Assistant Professor Lori Dewald, EdD, ATC, MCHES, F-AAHE, ushers Millie and Maggie to the nursing home. This has been their routine for the past four years.

"The long-term nursing home residents have given Millie and Maggie the nickname of the M&M girls," Dr. Dewald says. "They love the girls, and everyone wants to be the first room they visit."

Dr. Dewald, who joined SHM in 2011, adopted the girls when they were 8-weeks old. Her intent in enrolling them in obedience training was to have polite puppies, but with the instructors' encouragement, Dr. Dewald decided to continue their

training. The M&Ms are now highly demanded helpers and the positive experience has multiplied for Dr. Dewald.

"My dogs have such an unconditional love for people," she says. "It's amazing to see a smile come across the face of a nursing home resident when they pet my girls. It brings back fond memories of their own dogs."

Dr. Dewald remembers that her grandparents desperately missed their dog when they had to be placed in a nursing home.

"One of the nurses would bring her dog to the nursing home, and my grandparents were happy to be able to pet a dog and get dog kisses. I had always said that if I ever had well behaved dogs I'd consider giving back to people who have had to leave their dogs at home while being in a nursing home."

The M&Ms have helped her keep that promise.

**Woman's best friend** Dogs have been a part of Dr. Dewald's world since she was born. Not only have they been a companion to her and her community, the connection even carries over to Dr. Dewald's classroom.

"Health education is education for life," says Dr. Dewald. "With Millie and Maggie, I believe that they encourage mental, emotional, and social health in the nursing home residents, which also helps with their physical health dimension."

Dr. Dewald is keenly aware of the health benefits of animal ownership, proving that the M&Ms truly are the teacher's pet. ❏

# Breaking barriers

## Autism speaks to physical therapy alum

By Lee Cashatt

Language isn't a barrier for Imrul Kabir – even when working with uncommunicative autistic children. In fact, Dr. Kabir knows seven different languages, all of which he commonly uses as an early intervention therapist working with immigrant families in New York City.

Dr. Kabir has lived a life rich with diversity. Born in Bangladesh and raised in many different countries (his father was a diplomat), Dr. Kabir grew to love language, geography, and culture, each helping him better relate to clients and giving him a heart for struggling children.

Like many in the United States, Dr. Kabir, who received his DPT from ASHS in 2010, noticed a rise in the incidence of children with Autism Spectrum Disorder in the last 10 years. He also encountered many with the condition while traveling in Bangladesh.

"I love every part of my work as a pediatric physical therapist," says Dr. Kabir. "But I am most enamored with my work with the autistic population."

Every summer, Dr. Kabir ventures back to Bangladesh where the Ministry of Social Welfare has estimated that one child in 500 has autism, meaning the approximate number of children with ASD is no less than 280,000. Additionally, 45 percent of its population lives below poverty, 53 percent over age 15 is illiterate, and 41 percent of children under age 5 suffer from malnourishment. Not to mention, the social barriers are considerably daunting.

"Autism is considered a God-given curse and children with ASD are taken as possessed by the devil," Dr. Kabir says. "Bad parenting is also accused. Working mothers still get the blame."

It's a dire situation for children living in the poorest regions of Bangladesh. The public school system can only inadequately address the needs of disabled kids. That's why Dr. Kabir has made it his personal mission to bring awareness to the cause.

With the help of colleagues, Dr. Kabir has conducted workshops and trainings, lectured at universities, and mentored therapists in Dhaka, the country's capital city. Local media helped him air a live TV program spotlighting autism in which parents called in with questions from the most remote regions of Bangladesh.

"It is only recent that Bangladesh is learning about the condition, and sadly, very few institutes offer individualized programs for special children due to a lack of trained professionals and materials," says Dr. Kabir. "My goal is to reach out and educate the people of Bangladesh."

Autism itself presents many challenges for children, families, and communities. Combine that with a largely uneducated and resource-poor country, and the obstacles seem insurmountable.



Bangladesh marketplace

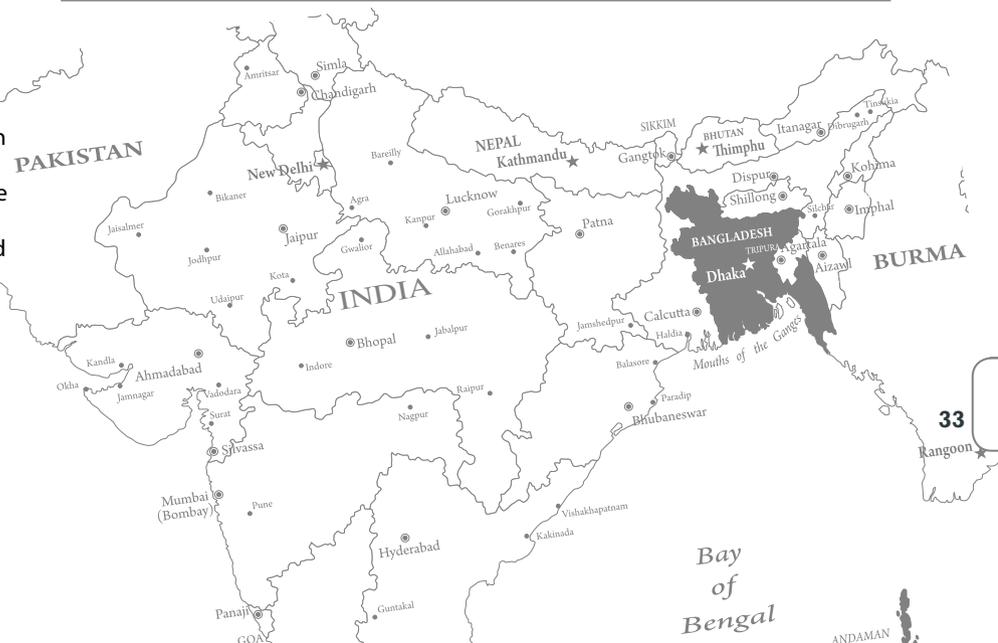


Dr. Kabir (left) travels to Bangladesh every year.

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## Despite the circumstances, Dr. Kabir is ready – and willing – to break down the barriers. 🇬🇧

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# On a mission

By Katie Thudium



The night began like any other at the rural Kenyan hospital, Tenwek. From bone fractures to bladder cancer, Logan Banks, DO, '06, helped many that evening. But the night was far from over.

It was well after midnight when two brothers came through the doors, leaving a bloody trail as they made their way to the emergency room. After a machete fight, one brother received a blow to the skull and the other, who had time to raise his hands in defense, was slashed in the forearm down to the bone.

With limited resources and staff, the brother with the brain injury was rushed to the only operating room, and Dr. Banks took the brother with the gashed arm to a corner of the ER. Sitting under a dim lamp, he whispered a small prayer and began sewing the gaping wound.

This is just one of many wild encounters Dr. Banks experienced while in the medical mission field.

Dr. Banks, who is currently on faculty at Cox Family Medicine Residency in Springfield, Mo., began participating in mission trips as an undergraduate student. As his education advanced, so did his commitment to the underserved. After his first year of medical school, he took his first medical mission trip to Bolivia, where he served in a clinic for two weeks.

"It really opened my eyes to the differences in healthcare in different countries and how much need and suffering is in the world," says Dr. Banks.

On a trip to Nigeria the following year, Dr. Banks, along with a group of medical students and local physicians, drove a van-turned-mobile clinic to rural locations to provide medical care to locals.

"Every day we would travel to a new place, and every day a thousand people would show up trying to be seen," he says.

"Unfortunately for many, much couldn't be done because the disease process was so severe, we had nothing to offer."

His desire to help the underserved has even landed him closer to home in New Orleans, post-Hurricane Katrina, which he says felt like a Third World at the time.

"We went a week after the hurricane hit, when many families

**"Reaching out to people who need help the most is what we're supposed to be doing in medicine."**

— Dr. Banks

were trying to get back in to clean up and rebuild," says Dr. Banks. "No one was there to provide care; all the clinics were closed or damaged. I supported local hospitals and worked at an outlying clinic in a mall parking lot."



Dr. Banks and Tenwek Hospital's ambulance



Local Kenyan children



Dr. Banks with son Liam and wife Julie at the Lipton Tea Gardens in Kericho, Kenya

By his fourth year of medical school, he and his fiancé had become so dedicated to helping the underserved that they decided to forego the traditional Western wedding experience and exchanged vows during another mission trip to Bolivia. The next day, they were back at work.

"We wanted to join our lives together while we were serving in the mission field because we felt that was part of the sacrifice that we were being called to do through our faith," says Dr. Banks.

After completing his residency training, a fellowship in international family medicine, and a course in tropical medicine, Dr. Banks, with his wife and infant son, devoted five months to serving in rural Kenya.

"It was like stepping back in time 100 years," says Dr. Banks. "The things we once took for granted became everyday necessities."

At the hospital, up the hill from their apartment, he spent most of his time in emergency/trauma surgery, obstetrics, and adult and pediatric services. Although he saw many unique cases, the most common cases were HIV, malaria, tuberculosis, and worm infections. Unfortunately, for as many as he helped, it seemed just as many were beyond help.

It was on this mission, while working in pediatrics, that he faced one of his most difficult experiences yet. He was still coming to grips with the extremely high newborn death rate when he lost four newborn babies in a matter of 30 minutes. Here, because of inadequate resources, babies that would normally do very well just didn't have a chance.

"It's hard to see that kind of suffering, even in the hospital," says Dr. Banks. "But, without the hospital, even more people would be suffering. There's always more to do, more people who need help."

In addition to serving at the hospital and outlying clinics, Dr. Banks and other physicians would travel to remote areas to make house calls. The homes he visited were typically one room, made out of mud with dirt floors and thatched roofs. Inside,

pictures of royalty hung on newspaper-lined walls, a fire pit occupied the floor, and everyone slept together in one bed.

"Even though they didn't have much, they were willing to share what they did have," he says. "It was amazing to see the hospitality of the people there."

Certainly Dr. Banks has taken his passion around the world. In 2011, he brought this devotion home and created an international curriculum for residents at Cox Family Medicine Residency to have the opportunity to participate in missions during their training.

"I love serving, but I also find fulfillment in helping the residents have similar experiences while they are in training," says Dr. Banks. "Those are life-changing experiences to have."

For Dr. Banks, not only are international medical missions a passion, they are a calling. They have changed his perspective on the world and medicine.

"When you think about the whole problem, it can be overwhelming at times and you wonder if you're making a difference," says Dr. Banks. "But you really are making a difference—for that community and within yourself." ■

# The cookie doctor

By Katie Thudium



Affectionately known as the “cookie doctor” to her patients, Carlann DeFontes, DO, ’12, hasn’t led a cookie-cutter life. From LPN to DO and everything in between, this adventurer helps underserved and diverse communities in the most remote locations.

Growing up athletic and outdoorsy, Dr. DeFontes’ lifelong dream was to become a doctor. With a father from Hawaii, her childhood was filled with swimming and sailing, but as a LPN in rural Colorado, she also learned to ski, kayak, and river raft. Furthering her education in Seattle, Wash., she paid her way through nursing school as a commercial fisherwoman. She worked as an RN for many years, putting medical school on hold as a single mother.

Encouraged by her physician brother to become a PA, Dr. DeFontes enrolled at the University of North Dakota, which offered a program focused on serving rural and underserved areas. After graduating, she moved to Alaska and for 10 years performed minor surgeries, endured inclement weather, and participated in search and rescue missions, climbing glaciers and facing raging rivers.

She served many remote villages and communities including those on the Aleutian and Pribilof Islands, an oil rig on the North Slope, and a gold mine near Juneau. As a PA, she was often the highest level provider available, but to those she helped, she was much more.

“I love becoming part of a community,” she says. “I wasn’t related to anyone, so they would often ask me to do other things like grade science fair projects and hide Easter eggs.”

One of her fondest memories comes from early house calls to the villages. She baked cookies and took them to elderly patients and their families as a segue into their homes. After a few visits,

they warmed up to her. Eventually, the children stopped by her home on weekends to learn to bake.

“My name is a little difficult to pronounce, so they ended up calling me the ‘cookie doctor,’” says Dr. DeFontes. “In fact, that’s how I’m listed in their recipe books.”

Some memories are not as sweet. One day, a young crab fisherman caught his jacket in the lines as he lowered crab pots into the water. His arm was pulled through the block and crushed, leaving it partially amputated. While Dr. DeFontes tried to stabilize him, an elder walked in with chest pain and a heart rate of 30. To make matters worse, the Coast Guard couldn’t reach the island because of hazardous weather conditions. Unaided, she took care of both patients for three days.

“I knew what to do most of the time, but I didn’t always understand why,” Dr. DeFontes says. “I wanted to give my patients more and understand more about medicine.”

She finally pursued her dream at SOMA.

Now completing her residency in Honolulu and happily married to a boat captain, she’s splashing back into water sports, adding stand-up paddling and canoeing to her repertoire. Planning to stay in Hawaii, she not only remains committed to serving rural and underserved communities, but she also carries her multifaceted background and experiences with her.

“I wouldn’t have done what I did in Alaska if I had completed medical school first,” Dr. DeFontes says. “I’m so grateful for every step along the way.” ❧



The cookie doctor and her signature treat

Photo credit: Mark Skalny

# One smile at a time

By Katie Thudium



Dr. Oh teaches preschoolers the importance of a healthy smile.

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**Timothy Oh, DMD, '08, has a passion for community and decided to pursue a career in dentistry to give back. He has left smiles on patients' faces ever since.**

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After serving two years as director for a small, non-profit dental clinic, Dr. Oh realized a greater need in his community was not being met—access to care. In response, he and his wife, Audree Park, DDS, established Caring Hands of Maine Dental Center in rural Ellsworth, Maine, in 2010.

The center, a community health organization providing affordable dental care access, primarily serves two of the state's most socioeconomically disadvantaged counties. Some patients travel up to six hours to receive care at the center due to the lack of safety net clinics.

For those in remote areas and unable to reach the clinic, the center reaches out to them through its portable dentistry program. Heavy dental chair set-ups and equipment are loaded into a vehicle, ferry, or small boat to make the journey to rural communities and small islands off the coast of Maine. The most recent addition to this program is a retro-fitted school bus, which holds two dental chairs.

"The level of personal and professional satisfaction we get from this type of work is priceless," Dr. Oh says. "The appreciation we've received from those in the community is overwhelming at times and is often the motivation to get up and do it again the next day."

Getting to the root of the poor oral health problem, many of the center's activities revolve around youth. By interacting with kids, Dr. Oh has helped them grasp the importance of good oral hygiene and overall health.

"Time and time again, we see children first. Then, after a year of treatment, parents will get the courage to seek care," Dr. Oh says. "It's rewarding because we feel like we're breaking multi-generational cycles of poor health."

In addition to programs like Back to School Smiles and Give Kids a Smile® Day, which provide free dental care to kids, the center's largest outreach activity is a collaborative project—a week-long clinic that has helped 3,000 patients during the last two years. This project is the largest charitable dental outreach in the state.

The center also doubles as an education facility, providing clinical training for dental students from ASDOH and other dental professions schools. In the past two years, more than 100 out-of-state students have trained at the center—the most students sponsored by any organization in the state.

"We're excited to show students not only clinical skills, but also aspects of program development and involvement in their communities and states," he says. "Hopefully we'll inspire them to get out there and do something different."

Dr. Oh understands that the enormity of the public health situation is daunting, but he feels they've been able to make a difference locally, as well as statewide.

"The journey of a thousand miles starts with a single step," says Dr. Oh. "You may not be able to see the solution to all the public health dilemmas, but we can help one patient at a time." ❧



# Connections

## **A winning community**

*Awards ceremony honors local spirit*

ATSU honored 25 Kirksville community member nominees and four award recipients with Still Spirit Awards on April 30. Since 2005, ATSU has recognized outstanding individuals whose actions embody the leadership and spirit of volunteerism like our founder, Dr. A.T. Still.

The event was emceed by 2011 Still Spirit Award winner and long-time radio and TV personality John McConnell. Approximately 180 people joined the celebration.

To see more photos and a complete list of this year's nominees and award winners, visit [stillmagazine.atsu.edu](http://stillmagazine.atsu.edu) for exclusive online content.

**Still Spirit Award winners (l-r) Roger Johnson, Doyle Dover, Royce Kallerud, and Troy Mihalevich with ATSU President Emeritus Jack Magruder, EdD**



## 1940s



**Leonard Staff Jr., DO, '45**, received the Lifetime Achievement Award at the Arizona Osteopathic Medical Association annual convention April 20 in Scottsdale, Ariz.

## 1950s



**Richard A. Berjian, DO, '55**, Stuart, Fla., published the novel, "Behind Hospital Doors," a story revealing a young surgeon's worst nightmare when hospital politics and medical incompetence challenge his ethics. A love story also exposes what happens when doctors and nurses confuse personal lives and professional responsibilities.

Trained as a general surgeon, Dr. Berjian took a fellowship in surgical oncology at Roswell Park Cancer Institute in Buffalo, N.Y., where he attained the rank of senior cancer research surgeon as a member of the attending staff. He also served as chair of the department of surgery at the University of Medicine and Dentistry of New Jersey-School of Osteopathic Medicine. He is currently involved in a research project to improve the staging and treatment of metastatic malignant melanoma.

## 1960s

**Max Helman, DO, '65, FACFP**, received a Distinguished Service Award at the American College of Osteo-

pathic Family Physicians Annual Convention in Kissimmee, Fla., on March 15-18.



**Albert L. Pick, DO, '67, JD**, reminisced with *Still Magazine* about his high school tennis days, his surgery residency, meeting with four United States presidents, playing the drums in class reunion bands, and graduating with honors from John Marshall Law School in 1992.



**Stephen D. Blood, DO, '68, FAAO**, Alexandria, Va., received the 2012 Fellows of the American Academy of Osteopathy Distinguished Service Award during their annual convocation in Louisville, Ky., on March 23. The award is presented to fellows who have distinguished themselves in the profession.

Dr. Blood is board certified in osteopathic manipulative treatment and family practice. In addition to running a private practice in Alexandria, Dr. Blood has served as a professor at Western University College of Osteopathic Medicine of the Pacific, Philadelphia College of Osteopathic Medicine, New York College of Osteopathic Medicine, and Nova Southeastern University College of Osteopathic Medicine.

## 1970s



**Jerry L. Dickey, DO, '75, FAAO**, Fort Worth, Texas, received the A.T. Still Medallion of Honor, presented by the American Academy of Osteopathy (AAO) during their annual convocation in Louisville, Ky., on March 24. The medallion is the highest award conferred

by the AAO to members who have exhibited exceptional understanding and application of osteopathic principles and concepts.

Dr. Dickey is certified in neuromusculoskeletal medicine/osteopathic manipulative medicine. He is a third-generation DO who has devoted his career to osteopathic education. During his 37 years in the profession, he has chaired the OMM departments at KCOM and the University of North Texas Health Science Center Texas College of Osteopathic Medicine. He also started OMM residencies at both institutions and served as residency program director intermittently for 20 years.



**Richard A. Feely, DO, '78, FAAO**, Flossmoor, Ill., was elected to a three-year term on the board of governors at the annual business meeting of the American Academy of Osteopathy during their convocation in Louisville, Ky., on March 22.

Dr. Feely is board certified in six specialties—family practice, neuromusculoskeletal medicine/osteopathic manipulative medicine (NMM/OMM), acupuncture, disability evaluation, independent medical evaluation, and quality assurance and utilization review. He is an adjunct professor in the OMM Department at Midwestern University Chicago College of Osteopathic Medicine and Western University College of Osteopathic Medicine of the Pacific.

Dr. Feely is president of the Illinois Osteopathic Medical Society and a past president

# Honored Patron

Lifetime Giving Award  
(\$15,000-\$24,999)



**1.** Scott Sellers, DO, '85, and wife Michelle are presented the award in Hutchinson, Kan., where he practices emergency medicine. **2.** Harold K. Poff, DO, '66, and wife Lois, Ashley, Mich., are recognized during ATSU's alumni reception at the Michigan Osteopathic Association meeting. **3.** John P. Kripsak, DO, '87, is presented the award by classmate Howard Levine, DO, '87, during the New Jersey Tel-Alumni campaign. **4.** Alan B. Schorr, DO, '81, and wife Sara (not pictured), Langhorne, Pa., receive the award at his office where he specializes in endocrinology. **5.** ATSU President Emeritus Jack Magruder, EdD, presents the award to Michael Schwend, president and CEO, Preferred Family Healthcare, Kirksville, Mo.

of AAO; he has been involved with the organization for more than 27 years.



**Melicien A. Tettambel, DO, '78, FAAO**, Yakima, Wash., was elected to a three-year term with the American Academy of Osteopathy board of governors at their annual business meeting in Louisville, Ky., on March 22.

Dr. Tettambel is chair of the Department of Osteopathic Principles and Practices at Pacific Northwest University of Health Sciences College of Osteopathic Medicine. She is also a visiting professor and lecturer at several other colleges of osteopathic medicine. She is certified by the American College of Osteopathic Obstetricians and Gynecologists (ACOOG) and the American Osteopathic Board of Special Proficiency in Osteopathic Manipulative Medicine.

Dr. Tettambel is a past president of AAO and serves on its board of governors and as chair of the American Osteopathic Board of Neuro-musculoskeletal Medicine. She is president of the Sutherland Cranial Teaching Foundation and is also actively involved in the American Osteopathic Association, ACOOG, and the Osteopathic Cranial Academy. She was the 2004 recipient of AAO's A.T. Still Medallion of Honor and is co-author of "Osteopathic Management of the Female Patient."

**1980s**

**Marc A. Kaplan, DO, '81**, is program director for the family medicine residency at Sierra Vista Regional Health Center in Sierra Vista, Ariz.

**1990s**

**J.D. Polk, DO, '93, MS, MMM, CPE, FACOEP**, presented the lecture "White Swan: Black



Swan; Expanding the Osteopathic Mindset from the Whole Patient to the Whole Community" on ATSU's Missouri campus in March. The lecture was sponsored by DART (Disaster Awareness Response Training).

Dr. Polk is principal deputy assistant secretary/deputy chief medical officer, Department of Homeland Security, Office of Health Affairs. He is former chief of the Space Medicine Division for NASA's Johnson Space Center and was a consultant for the 2010 Chilean Miner Rescue.

**Commander Sean Barbabella, DO, '96**, was awarded the Legion of Merit by the Marines during a year deployment to Afghanistan in 2011-12 where he served as second Marine division surgeon. He was also awarded a Purple Heart for his 2009 deployment to Afghanistan where he was a pioneering physician of the Mobile



# Distinguished Patron

## Lifetime Giving Award

(\$25,000-\$49,999)

ATSU President Emeritus Jack Magruder, EdD, presents the award to Alliant Bank, accepted by Pete Detweiler, president/CEO.

Les T. Sandknop, DO, '78, and wife Claudia, Rockwall, Texas, are presented the award by ATSU President Emeritus Jack Magruder, EdD.

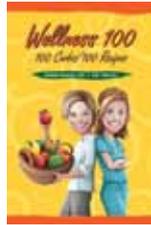


Trauma Bay, a large armored vehicle used in combat to treat wounded on the battlefield. Dr. Barbabella is a Navy emergency medicine physician with 16 years of service and was assigned to the Emergency

Department at Camp Lejeune Naval Hospital as department head this summer.

### 2000s

**Amber French, DO, '00**, co-authored "Wellness 100: 100 Carbs/100 Recipes," a nutritional program and cookbook. Dr. French is a board certified OB/GYN. She was inspired while completing her fellowship in anti-aging medicine to develop a program to help her patients live longer, healthier lives.



**Geoffrey W. Hoffa, MS, PA-C, '00**, was elected chair of the Arizona Regulatory Board of Physician Assistants on Feb. 29. "It is a proud moment for me in my career," said Hoffa, who is also a current student in ASHS' Doctor of Health Sciences program.

**Patrick McKeon, PhD, ATC, '01**, assistant professor, athletic training, University of Kentucky, was awarded the 2012 New Investigator Award by the NATA Research and Education Foundation. The award recog-

# A.T. Still Fellow

## Lifetime Giving Award

(\$100,000-\$299,999)

ATSU President Emeritus Jack Magruder, EdD, presents the award to representatives of Kirksville Regional Economic Development Incorporated (KREDI): (l-r) Larry Gardner, board member; Carolyn Chrisman, director of economic development; and Ron Winkler, president of the board of directors. KREDI is a strong advocate for ATSU's Missouri School of Dentistry & Oral Health, currently under construction on the Missouri campus.

Craig and Gina Shorten, Kirksville, Mo., receive their award from ATSU President Emeritus Jack Magruder, EdD.



nizes a researcher who is likely to continue to make significant contributions to the body of knowledge in athletic training and healthcare.

**Mark Neeman, DPT, '02**, and Marcy Neeman welcomed their first child, Vivienne Lucille Neeman, on April 25. Dr. Neeman works in outpatient orthopaedics for Madonna Rehabilitation Hospital in Lincoln, Neb.

**Bethany Chernich, DO, '05**, Missoula, Mont., was featured in an online issue of *The DO*. In the article, Dr. Chernich focuses on the importance of balancing her professional and personal life and shares why she specializes in osteopathic manipulative treatment.

**Theresa Boland, DHEd, '09**, passed the Certified Health Education Specialist exam administered by the National Commission for Health Education Credentialing Inc. in April. Dr. Boland has served as chair of the SHM Alumni Board of Directors for the past two years.

**Donald A. Donahue Jr., DHEd, '09, MBA, FACHE**, co-authored the article "The All Needs Approach to Emergency Response," published in the Feb. 2012 issue of *Homeland Security Affairs*.

**Bonnie Young, MS, '09**, was named head coach of the women's soccer team at North Central College in Naperville, Ill.

## 2010s



**Casey Jones, DMD, '10**, is dental director at CHP Dental Center in Great Barrington, Mass.

**Joshua Davidson, DMD, '11, MPH, '11**, Marshfield, Wis., who works for Neillsville Dental Center, visited 11 Amish schools in the area to provide basic oral health instruction to 220 students ages 6-14 in grades one through eight. He was prompted to launch the program after seeing the condition of some Amish adults' teeth at an area farmers market. Most Amish do not practice routine home oral hygiene.

**Candace Leach, MS, ATC, '11**, is assistant program manager for Boeing Industrial Athlete in Auburn, Wash., with Work-Fit, a company that brings athletic training services to large industrial settings. Leach hires and trains new athletic trainers.

"At Work-Fit, we oversee 7,300 employees, attempt to change the culture of the industrial setting, and make athletic trainers a proactive resource," said Leach.



**Katie Davenport-Kabonic, DO, '12**, was awarded the Wetzel Scholarship from the William L. Wetzel Education and Research Foundation, a non-profit foundation and affiliate of the Missouri Association of Osteopathic Physicians and Surgeons. Dr. Davenport-Kabonic is completing post-graduate training at Cox Family Medicine Residency in Springfield, Mo.

# A.T. Still Osteopathic Research Endowment



George Scheurer, DO, '54, and Jerry Dickey, DO, '75, trustees of the Still Memorial Osteopathic Research Trust, have transferred the trust funds to ATSU to create the A.T. Still Osteopathic Research Endowment. The new endowment provides funding for osteopathic research under the direction of Brian Degenhardt, DO, director of the A.T. Still Research Institute on the Missouri campus. Pictured is Dr. Scheurer presenting a check to ATSU President Emeritus Jack Magruder, EdD, to create the endowment fund.

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# A flourishing legacy

The Steinbaum-Levine families are steeped in 82 years of osteopathic history that began with patriarch David S. Steinbaum, DO, '30, and grew to include 18 DOs, 12 of whom are KCOM graduates.

In recognition of the family's history and support, a dedication ceremony was held May 12 for the Steinbaum-Levine Legacy Hall, located in ATSU's Connell Information Technologies Center. The dedication also celebrated David S. Levine, DO, and his fiancé, Krystin A. Engelhardt, DO, both KCOM class of 2012 graduates.

The family generously created the Steinbaum-Levine Scholarship Endowment Fund that provided scholarship awards to 100 students amounting to \$311,750 from 1969-2003. The fund has now changed from a scholarship endowment to the Steinbaum-Levine Endowment Fund for the Advancement of Osteopathic Medicine at ATSU-KCOM.

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**2013**  
**PRIMARY CARE UPDATE**  
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**For more information, contact:**  
 Kimberly Blackman, director, Continuing Education  
 A.T. Still University  
 660.626.2232 | 866.626.2878, ext. 2232 | Fax 660.626.2931  
 cme@atsu.edu | www.atstu.edu  
 Programs subject to change

*ATSU is accredited by the American Osteopathic Association (AOA) to provide continuing education for physicians. These programs anticipate being approved for AOA category 1A CME credit, pending approval by the AOA CCME.*



# In memoriam

ATSU pays tribute to the following graduates

Read full-length obituaries online at [stillmagazine.atsu.edu](http://stillmagazine.atsu.edu).

Leroy S. Allison, DO, '82, Jan. 23, 2012, Bartlesville, Okla.

Esther G. Cruz-Guerrero, DO, '93, June 14, 2012, San Antonio, Texas

Wain B. Eberly, DO, '58, Jan. 12, 2012, Dalton, Ohio

Roy D. Guthrie, DO, '61, March 29, 2012, Fresno, Texas

Ralph J. Harvey, DO, '46, March 15, 2012, Hillsboro, Ore.

Frank H. Hollar, DO, '59, Oct. 17, 2011, Hudson, Wis.

C. Dwight Huneryager, DO, '44, Sept. 13, 2011, Sand Springs, Okla.

Daniel J. Marazon Jr., DO, '71, March 13, 2012, Athens, Ohio

Rex T. Martin, DO, '63, April 27, 2012, Harrison, Maine

Daniel L. Morrison, DO, '71, March 6, 2012, Bloomfield Hills, Mich.

Henry G. Norrid, DO, '73, Feb. 21, 2012, Amarillo, Texas

John P. Price Jr., DO, '43, March 23, 2012, Prairie Village, Kan.

Robert J. Shields, DO, '52, March 16, 2012, Fredericksburg, Texas

Sarah Simpson, DO, '37, Feb. 21, 2012, Carmel, Maine

Thomas K. Swope, DO, '58, Aug. 30, 2011, Portsmouth, Ohio

Neil Wallach, DO, '59, Oct. 29, 2011, Coram, N.Y.

Kenneth R. Watkins, DO, '51, May 8, 2012, Houston, Texas

Larry J. Zechman, DO, '67, April 12, 2012, Knoxville, Tenn.

## Correction

"In memoriam" [summer 2012] incorrectly stated Dr. Julie Ann Gibson's degree information. Her correct credentials are MD, CMI, MBA, RN. Our apologies.



## In-flight entertainment

Imagination takes flight on the 50-acre Wind Riff Farm on the outskirts of Kirksville, Mo., where Sydney P. Ross, DO, '59, perfects his lifelong love for building exact replica model airplanes. His favorite is this 1943 Navy fighter plane, the F411 Corsair, with a 105-inch wingspan, complete with retractable landing gear and weighing only 38 pounds. Construction took several years and \$5,000 to complete.

Wearing his white doctor's coat as a painter's smock, Dr. Ross crafted the plane's precision details in his bright basement workshop where a pool table doubles as a work bench. He hand spray painted the body, adding personal touches like his initials to the tail and his birth date to the nose.

Not surprisingly, Dr. Ross spent his career as a vascular surgeon, honing his ability to work with fine details. He also served 10 years as KCOM dean and a surgery professor prior to that.

## Continue the tradition



For 120 years, ATSU has been dedicated to educating highly competent healthcare professionals with a commitment to serve underserved populations. Economic and debt considerations hinder students' choice to work in underserved communities. You can ease their financial challenges so they can make the commitment to help patients in underserved areas by contributing to any of the following scholarship funds:

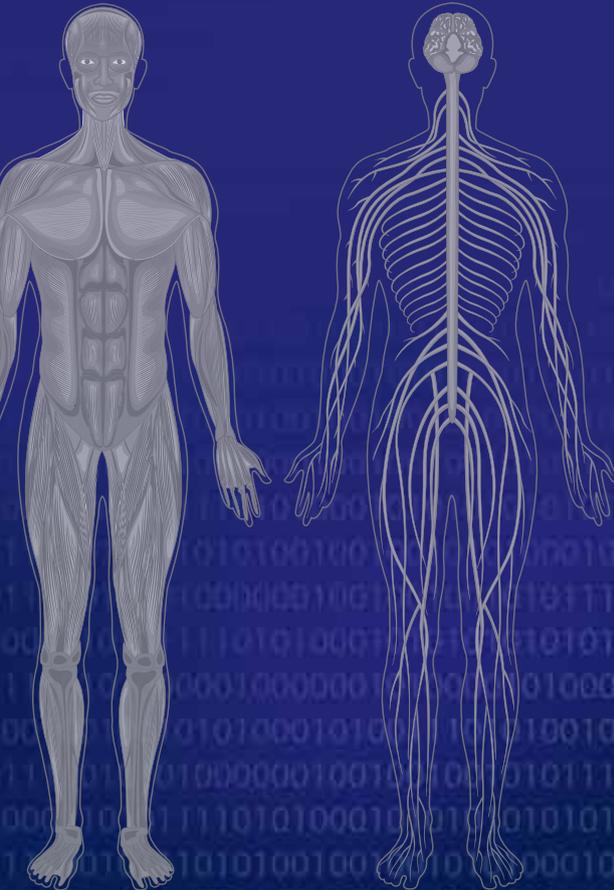
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