

PROFILE

“Art and science go hand and hand,” says Catherine Tesla. **Page 2**



FIRST PERSON

Emory Report’s executive editor returns to India with an open heart. **Page 7**



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Explore Africa’s ancient treasures

By KIM URQUHART

Welcoming visitors to the Carlos Museum, receptionist and docent Ginny Connelly points to the cover of this month’s National Geographic. It features King Taharqa, one of the Nubian kings of the 25th dynasty who ruled Nubia and Egypt during Egypt’s last great cultural renaissance.

“This is very timely,” Connelly says. “The very person depicted on the cover is part of our permanent collection and is featured in our new exhibit.”

The National Geographic story comes alive in the Carlos Museum’s new traveling exhibit “Lost Kingdoms of the Nile: Nubian Treasures from the Museum of Fine Arts, Boston,” on view until Aug. 31.

Please see **TREASURES** on page 4



Shabti of Senkamanisken. Nubian, Napatan Period, reign of Senkamanisken, 643-623 B.C. From Nuri, Pyramid III; Stone. Harvard University-Boston Museum of Fine Arts Expedition, 21.3040

East meets West in science initiative

By NANCY SEIDEMAN

The wind whipped the PowerPoint screen, cymbals sounded from the rooftop, and the electricity momentarily blinked off — not the usual challenges encountered in an Emory classroom. But then again biology lecturer Alex Escobar had never taught 2,000 Tibetan Buddhist monastics.

Escobar, anthropology professor Carol Worthman and physics professor P.V. Rao taught science units in biology, neurosciences and physics, respectively, as part of the inauguration of the Emory-Tibet Science Initiative at the Drepung Loesling Monastery in Mundgod, India, in January.

The importance that His Holiness the Dalai Lama places

Please see **SCIENCE** on page 7

‘Wrathful God’ forum explores extremism

By KATE BENNETT

Is religious extremism a shared tradition across religious faiths? Is the God of extremism different from the God of mainstream religious traditions? Is it possible to be “critically orthodox” as an antidote to religious extremism without abandoning the central tenets of a tradition? An upcoming conference, “The Wrathful God: Religious Extremism in Comparative Perspective,” will address these and other questions.

On March 3 and 4, Emory’s Institute for Comparative and International Studies and Religion, Conflict and Peacebuilding Initiative will bring together 21 scholars from

Please see **WRATHFUL** on page 5

NEW ONLINE AT EMORY.EDU

www.radiology.emory.edu

With a new look, reorganization and overhaul of content, radiology.emory.edu is designed to attract potential residents and faculty, share knowledge among the medically educated and increase communication throughout the department. The site will also serve as a resource for those interested in learning more about radiology at Emory.

ABOUT US

Emory Report serves as an informative, lively and comprehensive resource for news and events of vital interest to staff and faculty. The weekly publication highlights the Emory community's accomplishments, endeavors and aspirations that reflect the University's identity and strategic vision.

SHARE YOUR STORY

Do you have a great idea? Do you or a colleague deserve kudos for a personal or professional activity? Emory Report welcomes contributions from readers, including "First Person" opinion pieces and calendar items. Contact the Emory Report staff by phone at 404-727-9507 or by e-mail to kim.urquhart@emory.edu.

DEADLINES

The deadline for copy is 10 days before the desired publication date.

EMORY PROFILE: Catherine Tesla



Catherine Tesla is a genetics counselor and instructor in the Department of Human Genetics. She is also an artist, whose work is featured in ATLart[08] this month.

JON ROU

What's in the cards?

Ask this genetics counselor, whose hallmark is art

By ROBIN TRICOLES

Artist Catherine Tesla grew up in St. Louis, Mo., a breath away from Hallmark Cards' headquarters in Kansas City. Her first foray into art came when she carefully crafted a card for her grandmother's birthday.

"I was always creating something. I started making birthday cards for people when I was three. I made my first birthday card for my grandmother, and I put the little Hallmark crown on the back. Of course, it wasn't an artistically accurate crown, but everybody knew what it was, everybody remembers it," says Tesla, both a working artist and a genetics counselor and instructor in the Department of Human Genetics at Emory.

Although Tesla's first love is art, she is passionate about science as well. Tesla, an accomplished abstract and landscape painter, holds a master's degree in genetics counseling and an undergraduate degree in biology.

She became interested in genetics when her high school science teacher gave her class sci-

ence problems to solve, and one involved genetics. "I didn't know then it was a realistic problem, but I became fascinated by the subject. I found I loved both art and science, but when I went to college my parents gave me more positive reinforcement for the sciences, so I went with the science track and later found myself in genetics counseling school," says Tesla.

"I think the art and science go hand and hand. People often look at science as using one side of the brain and art as the other. But I find as an artist I problem-solve a lot. For example, when I'm composing a painting, I don't necessarily have an exact plan, but halfway through I have to figure out what's going to happen next. And as a counselor, I have to be creative about how I interact with a patient and how I get my point across so the patient can do what they need to do," says Tesla.

Tesla has been involved in genetics counseling, a diverse and growing field, for more than 20 years. "I like to look at genetics as being important throughout the life cycle. Before pregnan-

cy we screen gamete [egg and sperm] donors for heritable risk factors. We counsel couples who have fertility problems that may be of genetic origin. We see many prenatal patients who have a higher chance of having a child with a birth defect as well as those seeking counseling after babies are born with conditions such as Down's syndrome, fragile X or metabolic disorders," she says. There are also genetic clinics for conditions that have an adult-onset.

Lately, instead of counseling patients face to face, Tesla has been devoting her time to answering questions about genetics and posting them on a Web site that is a collaborative effort of the Department of Human Genetics at Emory and the Department of Genetics at the University of Alabama at Birmingham. Called "AsktheGeneticist" (www.askthegen.org) the site's readership started slowly but has recently gained momentum.

"Ever since the National Institutes of Health's Web site linked to our site for every medical condition that they listed, we

Now showing

View Catherine Tesla's work at Lagerquist Gallery (3235 Paces Ferry Place, Atlanta, GA 30305), where she is the featured artist until Feb. 16 as part of ATLart[08].

grew from about 35 questions per week to more than 100," says Tesla. The site gets questions from every state and more than 60 countries. "We even started to get e-mails from people saying, 'thanks for answering my question. I went to a genetics clinic and got help.'"

Tesla says she's put her heart into the genetics Web site as much as she has her art. "In years past, when I was seeing patients full time, sometimes things could get very heavy and the art was a real respite — just painting and hearing the sound of a brush against the canvas. But I really do enjoy doing both, going back and forth between art and science."

EMORY report

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People

NEWSMAKERS

“You have to ask Latinos for their vote and not just assume you have their vote because you share this common history of oppression.”

— Andra Gillespie, assistant professor of political science, in USA Today Feb. 5.



Students on the case at Guantanamo



Carlissa Carson, Charles Swift and Lara Aryani in Guantanamo Bay, Cuba.

SPECIAL

By LIZ CHILLA

While their classmates were busy cramming for final exams, Lara Aryani and Carlissa Carson were boarding a military flight from Washington, D.C., to Guantanamo Bay, Cuba.

The two law students traveled to Guantanamo with Visiting Associate Professor Charles Swift to assist in a military commission for Guantanamo detainee Salim Hamdan. The students visited Guantanamo as part of their work with Emory Law's International Humanitarian Law Clinic.

Swift, acting director of the IHL Clinic, currently serves as the lead defense counsel for Hamdan, having previously — and successfully — defended him in Hamdan v. Rumsfeld in 2006, a historic case that challenged the military commissions that were being used at the time. The December hearing in which Aryani and Carson assisted was to decide whether Hamdan would receive protection as a prisoner of war.

The two students — who slept in tents during their stay on the island — were active participants in Hamdan's defense, drafting and revising motions and conducting research. They also had the opportunity to put their individual knowledge into practice.

Aryani, who is fluent in Arabic, monitored the English-to-Arabic translations to ensure Hamdan was receiving accurate information. In one instance, Aryani and Swift submitted a motion to challenge one of the interpreter's translations. Their motion was subsequently

accepted by the judge.

“These students directly supported the litigation activities and brought a unique expertise and enthusiasm to the case,” Swift said.

As a first lieutenant in the U.S. Army Reserves, Carson used her security clearance to visit Camps Delta and Echo, as well as the remnants of Camp X-Ray. “It was surreal being so close to what the administration has deemed the worst of the worst,” said Carson. “And it was interesting to compare the detention facility at Guantanamo to those in the U.S.”

Swift's continued involvement as Hamdan's lawyer has provided a rare learning opportunity for his students, and the practical experience gained by Aryani and Carson in such a high profile case will serve them throughout their legal careers.

Carson already has called upon her experience in Guantanamo when drafting a comment, which was recently published by the Emory Law Journal, on Hamdan v. Rumsfeld and its role in bringing about the Military Commissions Act of 2006. “Now, I am able to not only read and write about Hamdan, but be a part of the case,” said Carson.

More broadly, the students' participation helps to highlight the importance of the preservation of human rights and Emory Law's role in bring these issues to the forefront under the direction of Swift and the IHL Clinic.

“This is the cutting-edge of international humanitarian law,” said Swift.

Practice makes perfect

Using lifelike mannequins, medical and nursing students practiced emergency room treatments during a simulation training Feb. 4. The daylong event marked the first time that students from both schools collaborated on patient care and safety training.

“When health care teams are properly trained on how to work together, the result is better teamwork, reduced medical mistakes and improved patient care,” says professor Douglas Ander, director of the Emory Center for Experiential Learning.



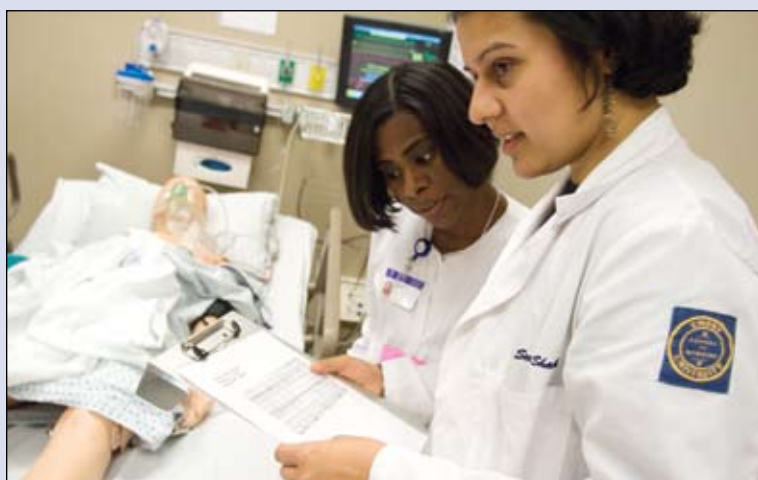
Left to right: Ria Nieva, Jesse Jung, Katie Rouse and Michelle McWilliams train in the Evans Center for Caring Skills.



Rouse, McWilliams and Jung collaborate on patient care.



Jean Bendik and Seema Shah prepare medications.



Tonni Barrett and Shah interpret echocardiogram results.

PHOTOS BY BRYAN MELTZ

ACCLAIM

Jeremy Boss, professor of microbiology and immunology at Emory School of Medicine, has been named the next editor-in-chief of the Journal of Immunology. Published by the American Association of Immunologists, it is one of the most cited publications in biomedicine.



Boss directs Emory's graduate program in genetics and molecular biology. He has served as deputy editor of the journal since 2003. He will assume the new five-year position on July 1.

In honor of her 20 years at Emory, Samuel Candler Dobbs Professor of Art History **Gay Robins** was presented with an Egyptian object donated to the Carlos Museum in her name.



To commemorate Robins' interests in both the Middle Kingdom and in the role of women in Ancient Egypt, the museum was able to acquire, thanks to a donation from her former student and a museum volunteer, a rare stela, or stone tablet, of Satsobek from the Twelfth Dynasty.

Robins serves the museum as a faculty consultant for Ancient Egyptian Art.

Stefan Tigges, associate professor of radiology, and Emory co-authors Gogi Sirineni, John Oshinski, Arthur Stillman and Kevin Johnson, were awarded the honor of Excellence in Design by the Radiological Society of North America for their educational exhibit on the “Cardiac Cycle and 3D Motion of the Coronary Arteries: Impact on Coronary Computed Tomographic Angiography.”



RSNA is a professional membership society committed to excellence in patient care through education and research.

Elaine Walker, Samuel Candler Dobbs Professor of Psychology and Neuroscience, has been named editor of Psychological Science in the Public Interest, the journal for the Association of Psychological Science. Her five-year term began Jan. 1.



“Acclaim” recognizes the accomplishments of faculty and staff. Listings may include awards and prizes; election to boards and societies; and similarly notable accomplishments at Emory or in the wider community. Emory Report relies on submissions for this column. Contact: kim.urquhart@emory.edu.

TAKE NOTE

\$500 awards for student research

For the second year, the Woodruff Library will award up to three prizes of \$500 each for undergraduate research projects making excellent use of library resources. The deadline to apply is Feb. 29.

Students should submit their best undergraduate research paper or project written for a credit course from the past academic year.

Entry materials, forms and instructions are available at web.library.emory.edu/award.

New vaccine center to open in India

The Emory Vaccine Center and the International Center for Genetic Engineering and Biotechnology have joined forces to launch the Joint ICGEB-Emory Vaccine Center in New Delhi, India. The center will be dedicated to vaccine research focused on infectious diseases that disproportionately affect the developing world.

Emory will provide the funding to support scientific staff in the joint New Delhi center, and ICGEB will provide space and infrastructure. Both partners will contribute their scientific expertise in vaccine research and development.

"Together, we plan to develop new vaccines and help move them from the laboratory through complex testing, approval and manufacture to local health centers where they can benefit individuals with the greatest need," says Rafi Ahmed, director of the Emory Vaccine Center.

Musical notes for Campus MovieFest

Musicians are encouraged to submit their music for use as film soundtracks for the student-created movies to be showcased at the finale of Campus MovieFest.

The free event will be Friday, Feb. 15, 7:30 p.m. in the Schwartz Center's Emerson Concert Hall.

Created in 2000 by a group of Emory students, Campus MovieFest has grown into the world's largest student film festival. Student teams are given Apple laptops, camcorders and training.

Movies nominated from each Atlanta school's festival will be in the running for awards at the grand finale to be Feb. 23 in Atlanta Symphony Hall.

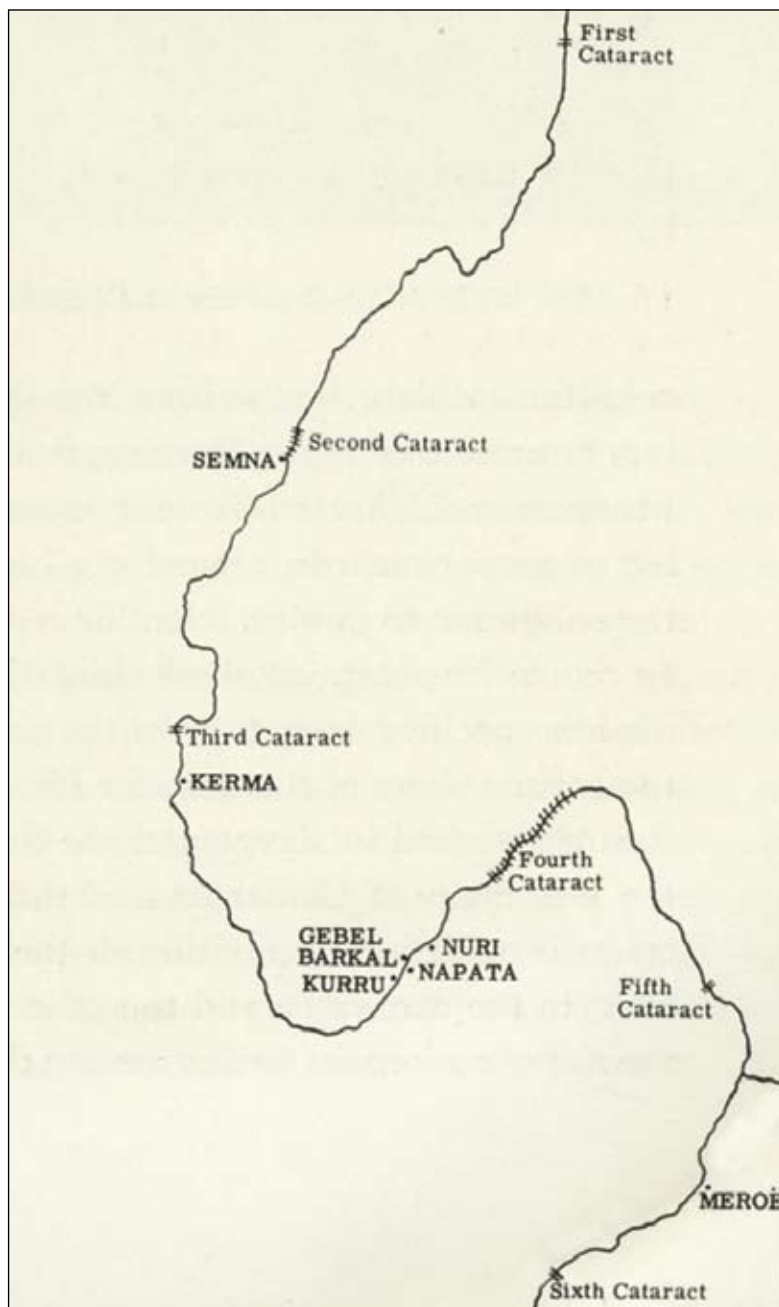
For information about the event or to submit music, go to www.campusmoviefest.com.

Tax forms available in Woodruff Library

A selection of federal and Georgia state tax forms are available for pick-up at a tax forms kiosk near the second floor reference desk in the Woodruff Library. Federal forms include the 1040, 1040A and 1040EZ. Georgia individual income tax forms provided are the 500 and 500EZ.

COVER STORY

TREASURES: On view at Carlos, history of lost kingdom of Nubia



Map from "The Egyptian Department and its Excavations" (Museum of Fine Arts, Boston), 1958.

Continued from the cover

Ancient Nubia thrived from 6000 B.C. to 350 A.D. in today's southern Egypt and northern Sudan. Featuring some of the most significant archaeological treasures ever found in Africa, this monumental exhibition

— consisting of more than 200 objects in gold, silver, bronze, ivory, stone and ceramic — illuminates the remarkable civilization that shared the Nile River with the ancient Egyptians.

"Egypt wasn't the only great African civilization," says Peter Lacovara, senior curator of Ancient Egyptian, Nubian and



The scarab of King Piankhy, ruler over Egypt and Nubia during the Egyptian Dynasty 25 (747-716 B.C.). The king is known for his fondness of horses, as seen on the scarab.

Near Eastern Art at the Carlos Museum. "And in many ways these artifacts are more remarkable because the Nubians had such limited resources compared to the Egyptians, yet they were able to accomplish so much." For example, there are more pyramids in Sudan than in all of Egypt, he notes.

Highlights of the chronologically organized exhibition include a queen's golden diadem, reconstructed in its entirety for the first time; finely crafted ceramics, including some of the earliest pottery in the world; treasures from the royal Nubian tombs; and inscriptions in the mysterious language of Nubia. The exhibition is augmented by pieces from the Carlos Museum's own Nubian collection and a variety of interpretive materials prepared by staff and faculty experts.

"Lost Kingdoms of the Nile" highlights not only some of the finest artworks ever found in ancient Africa but also the stories of their discovery by the intrepid archaeologists who were part of

African art galleries reopen

In conjunction with the opening of "Lost Kingdoms of the Nile," the Carlos Museum reopens its Galleries of Sub-Saharan African Art this month.

Drawn from the permanent collection, recent acquisitions and loans from private collections, the African galleries exhibition is organized as a theme-based exploration of the numerous ways to see and experience the museum's collection of 19th- and 20th-century African art.

"In this installation we expand the definition of art to better reflect African value systems so the viewer will also encounter ceramics, textiles and jewelry traditions," says curator Jessica Stephenson.

the Harvard-Boston Expedition from 1906 to 1913. "It was both the first archaeological salvage campaign and the first archaeological survey," says Lacovara.

The items uncovered by archaeologist George Reisner — whose discoveries offered the first archaeological evidence of Nubian kings who ruled over Egypt — were later presented to the Boston Museum.

"The Museum of Fine Arts in Boston houses the world's greatest collection of Nubian art," says Lacovara. "For the first time it's been put together as an exhibition that premieres at the Carlos Museum."

Lacovara believes the Nubian exhibition will resonate with the Emory and Atlanta community.

"This is an important cultural area that often gets ignored," he says. "Especially now, because when people think of Sudan they think of Darfur and the country's problems with genocide and civil war, and it eclipses the fact that this region had a great history."

SNAPSHOT

Mixed-use project will use demolition debris



JON ROU

Demolition efforts are under way at the mixed-use project site on Clifton Road, across from the Centers for Disease Control and Prevention. Turner Village and the D. Abbott Turner Center have been cleared to make way for the planned pedestrian-oriented community.

To further Emory's sustainable mission and divert reusable items from community landfills, the stonework debris from the demolition will be crushed on-site and recycled as road bed material within the new development.

REPORT FROM: Health Sciences

Transforming health and healing is both a vision and a promise

“Transforming Health and Healing.” You’ve probably seen this phrase on banners around campus, but it’s more than just a tagline. Transforming Health and Healing is both the vision and the promise of the Woodruff Health Sciences Center, and it’s the reason I was so excited to join the Emory team a few months ago.

Transforming Health and Healing means pioneering discoveries that advance our understanding of disease prevention and treatment. It means preparing the next generation of health professionals to save and improve lives in communities worldwide. And it means continuously improving the quality of care for our patients.

If you think that sounds like a tall

order, you’re right. But it’s one we’re uniquely prepared – and determined – to fill. Our past record of achievement is proof positive that we can accomplish the extraordinary, and we have a focused and attainable plan to develop a new model of health and healing for the 21st century. By working with our collaborating partners here in Atlanta, nationwide, and around the world to take full advantage of the academic and clinical programs throughout the University and beyond, we will become the prototype academic health center in the country — the model others will try to follow.

Components of the plan that will get us there include enhanced focus on providing evidence-based,

patient-centered care; re-evaluating and re-engineering our definition of health to create a model that is not reactive, but predictive; devoting resources and talent to addressing the most pressing health challenges around the world; and continuing to attract and prepare the most promising students through innovative, interdisciplinary curricula.

Through these and other efforts, Emory’s faculty, staff, students and other thought leaders will pioneer new solutions that will make a tangible and lasting difference on the health of real people in communities around the world — and that will positively shape the future of health and health care.

Of course, Transforming Health

and Healing is an ambitious and far-reaching vision, and we all have a role to play in achieving it. In the coming months, I’ll use this column to keep you aware of our progress — highlighting achievements, announcing groundbreaking new initiatives, introducing some of the extraordinary people who are making our vision a reality, and letting you know how you can help.

I hope you’re as excited as I am about Transforming Health and Healing. It’s an inspiring and compelling vision, and together we can make it happen.

Fred Sanfilippo is executive vice president for health affairs, CEO of Woodruff Health Sciences and chairman of Emory Healthcare.

UNIVERSITY GOVERNANCE ROUNDUP

Employee Council learns about governing bodies

Continuing with the Employee Council’s theme for this year, “Discovering Emory,” the group met at the School of Nursing on Jan. 16. Dean Marla Salmon welcomed the group and spoke about the nursing school’s past and where it plans to go in the future.

Secretary of the University Rosemary Magee described the way the University is governed, giving an overview of the various governing bodies.

The Feb. 20 meeting will be on the Oxford campus. “We try to meet once a year there,” said Iruka Ndubuizu,

council president. Scheduled to speak are Dean of Oxford Stephen Bowen and Emory Vice President and Deputy to the President Gary Hauk.

In March, the Employee Council hosts its annual town hall meeting. To be held at the law school, this meeting will feature President Jim Wagner and Vice President of Finance Mike Mandl on the topic, “First Steps,” about the University’s growth and where it is going. Staff members will have the opportunity to ask questions.

Faculty Council looks at tuition benefit, employee retention

Dashboard issues, such as the diversity of the faculty, staff and students and entrance exam scores, were out front at the January Faculty Council meeting, according to Faculty Council President Nadine Kaslow.

President Jim Wagner led a “very engaging discussion on where the University stands, where we want to go and how to engage the University community,” Kaslow said.

A hot topic, said Kaslow, was a dialogue by some faculty working with the administration on a portable tuition benefit. “We need to put some strategy” in place to consider the issue for faculty and staff, she said.

Kaslow said many benchmark institutions have the tuition benefit where-

in they pay either all or a portion of an employee’s child’s tuition at another institution.

A priority topic this year for the Faculty Council, she said, is faculty retention. Council members plan to add questions to a survey on the subject, set to go out this spring. Kaslow described the effort as a more in-depth look at what factors contribute to retaining faculty, what faculty or potential faculty members look at to come to an institution or to leave it.

Kaslow described the effort as a more in-depth look at what factors contribute to retaining faculty, what faculty or potential faculty members look at to come to an institution or to leave it.

University Senate explores diversity effort, trustee links

The chairman of the Board of Trustees, Ben Johnson III, spoke to the University Senate to underscore the value that the Board places in connecting to all members of the Emory community, said University Senate President Nadine Kaslow.

This was the first time in memory a board chairman had spoken to the Senate, she said. Kaslow noted that the Board of Trustees has “really welcomed faculty” members on trustees’ subcommittees.

A second major activity at January’s meeting was the hour spent discussing how the Senate could be actively engaged in campus initiatives related to diversity.

Members of various key diversity groups on campus attended the meeting and participated in a roundtable discussion on diversity.

Kaslow said the goal is to forge a blueprint for the Senate to work with others to move forward on participation in diversity initiatives.

— Leslie King

WRATHFUL: Comparative look at religious extremism

Continued from the cover

the fields of Judaism, Christianity, Islam and other major world religions to examine religious extremism through a new comparative perspective.

The international conference will provide a forum for some of the most important writers and thinkers working in their respective fields. Keynote speakers include Bruce Lawrence of Duke University, David Novak of the University of Toronto, R. Scott Appleby of Notre Dame University, and Akeel Bilgrami of Columbia University.

According to conference co-organizer Vincent Cornell, Asa Griggs Candler Professor of Middle East and Islamic Studies, participants were invited for their expertise as well as for “their willingness to think outside of the box in formulating new paradigms of analysis.”

During two days of intensive discussions, participants will examine

extremist discourses in world religions and the factors that contribute to the related development of extreme world views. Special attention will be devoted to the monotheistic or “Abrahamic” traditions: Christianity, Islam and Judaism. Extreme approaches to these religions appear to pose a unique potential for violence against religious “others” — and challenge liberal ideologies of pluralism and self-determination. For comparative purposes, Hindu and Buddhist extremism will also be examined.

As well as focusing on theological issues, participants will examine religious extremism from sociological and social-psychological perspectives — and from the perspective of technology and ideology. While at Emory, participants will also plan an edited volume based on the conference.

This event is free and open to the public; however, seating is limited. To register, visit www.ICIS.emory.edu or contact Art Linton at 404-727-5352.

SNAPSHOT

Stand-ins debate campaign issues



KAY HINTON

Emory College’s Ben Shnider channels Barack Obama in a primary debate on Jan. 31. Students represented the top three candidates in each party during the debate, sponsored by the College Republicans, Young Democrats, CSAmerica and others.

Surgical pioneer establishing limb transplant program

By QUINN EASTMAN

The only physician in the United States formally trained in both hand surgery and transplant surgery is establishing a new program at Emory to train other experts and to conduct research on what is still an extraordinary procedure.

Linda Cendales helped organize the team that performed the first hand transplant in the United States in 1999 in Louisville, Ky.

At Emory, she wants to train the next experts in composite tissue allotransplantation (CTA) — the re-transplantation of limbs and other intact body parts.

That means having surgeons with the skills to repair bone, vessels, muscle, tendon skin and nerves in marathon 10-hour operations as well as an understanding of the immune system after transplantation.

“We need to start training surgeons in CTA,” she told an Emory Transplant Center audience in January.

Cendales, an assistant professor of surgery, began work in November as director of the Emory Transplant Center’s

Laboratory of Microsurgery and Composite Tissue Transplantation. She is also affiliated with the Atlanta Veterans Affairs Medical Center.

“We have an opportunity now to combine our continuing efforts to prevent graft rejection with Dr. Cendales’ unique training and skills,” said Christian Larsen, director of the Emory Transplant Center. “Together we could really propel the field.”

The first hand transplant was performed in 1964 in Ecuador, before the development of modern immunosuppressive medications. The recipient, a sailor, had to have the transplant amputated two weeks later because of tissue rejection.

Cendales was involved in the Louisville team’s first two hand transplants in 1999 and 2001. Both men are still able to use their transplanted hands.

Surgeons have already tackled many of hand transplantation’s technical challenges, such as dealing with crushed bone or mangled connective tissue. Difficulty comes from the regimen of drugs patients must take to prevent their immune systems from attacking their new tissues.

Their side effects can include diabetes, heart disease and an increased risk of cancer.

Composite tissue transplantation continues to advance by leaps and bounds, with recent reports from around the world of transplants involving donors’ faces, knees, tracheae and even a uterus, performed in 2000 in Saudi Arabia.

Because of the risks and side effects, some critics say “quality-of-life”-driven procedures should be avoided.

“Recipients have to balance the benefits of having a transplanted hand against potential complications and side effects from the medications,” Cendales said.

Study of limb transplantation could also illuminate how the brain reorganizes after both injury and surgery and the phenomenon of “phantom limb pain,” she noted.

Originally from Colombia, Cendales attended medical school in Mexico City. She joined the Christine M. Kleinert Institute for Hand and Microsurgery in Louisville in 1997 and moved to the National Institutes of Health in 2001, completing two fellowships.



Linda Cendales removes dressing from the new hand of Jerry Fisher, the second hand transplant recipient in the United States, after surgery at Jewish Hospital in Louisville, Ky.

SPECIAL

Crayfish fossils provide evolutionary link



This fossil shows the outline of a 106-million-year old crayfish abdomen, found at Dinosaur Cove in Victoria, Australia.

ERICH FITZGERALD

By CAROL CLARK

Crayfish body fossils and burrows discovered in Victoria, Australia, have provided the first physical evidence that crayfish existed on the continent as far back as the Mesozoic Era, says Emory paleontologist Anthony Martin, who headed up a study on the finds.

“Studying the fossil burrows gives us a glimpse into the ecology of southern Australia about 115 million years ago, when the continent was still attached to Antarctica,” says Martin, a senior lecturer in Environmental Studies.

During that era, diverse plants grew in what is today Antarctica and dinosaurs roamed in prolonged polar darkness along southern Australia river plains. The period is of particular interest to scientists since it is believed to be the last time the Earth experienced pronounced global warming, with an average temperature of 68 degrees Fahrenheit — just 10 degrees warmer than today.

On Feb. 2, the Earth science journal *Gondwana Research* published online the results of the crayfish study, which was conducted by Martin and a consortium of Australian scientists.

The crayfish body fossils consist of an abdomen and two claws, and the fossil burrows are near-

ly identical to those made by modern crayfish in southeastern Australia. “Comparing these fossil burrows to those made by modern crayfish in Australia shows us that their behavior hasn’t changed that much,” says Martin, who specializes in trace fossils.

Biologists have long been fascinated by crayfish, due to their wide range — the freshwater decapods are found on almost every continent and have adapted to extremely diverse environments. Thomas Huxley, a colleague of Charles Darwin, was the first scientist to ponder how crayfish, which cannot survive in saltwater, could have spread to so many continents.

Such studies helped lay the groundwork for plate tectonics, which revolutionized the earth sciences in the 1960s through the theory that the continents were once connected. More recently, molecular biologists have theorized that all Southern Hemisphere crayfish originated in southeastern Australia.

“The evolution of Southern Hemisphere crayfish has challenged researchers since the 1870s,” Martin says. “Only now, 140 years later, are we starting to put together the physical evidence for this evolution through the discovery of fossils.”

Forum

FIRST PERSON

Witness to creation of knowledge

By NANCY SEIDEMAN

Seated at the foot of the monastery steps, I tilted my head back to idly watch the multi-colored triangle-shaped flags flutter in the balmy twilight breeze.

As the sky turned violet, hundreds of tiny yellow lights flashed on, outlining the massive exterior of the prayer hall looming above the wide marble staircase. At the top of the steeple, blinking lights along the rim of a Buddhist Wheel of Truth made it appear to spin.

Thousands of monks and nuns clad in saffron and maroon robes crossed the courtyard from all directions, silently arranging themselves on mats behind our row of chairs.

The hoarse bellow of horns and rattling cymbals sounded from the rooftop in preparation for an empowerment that His Holiness the Dalai Lama would give the next day.

How did I ever end up here in southern India last month, about to watch professor Alex Escobar deliver a lecture on evolution to thousands of monastics? And why did I feel at home?

It wasn't always so.

In 2005 I was invited to accompany an Emory delegation to Dharamsala, India, to cover the signing of a formal agreement as part of our growing affiliation with the Dalai Lama and Tibetan Buddhist institutions of higher learning.

I nearly didn't make the trip. Thanks to my foot-dragging, my visa arrived just two days before our departure. Everyone was thrilled that I was going to meet



Nancy Seideman is executive editor of Emory Report and associate vice president of communications.

CAROL WORTHMAN

the Dalai Lama, but I was ambivalent, not knowing much about him beyond "Free Tibet."

I knew little about Buddhism (obviously), was intimidated by monks, and didn't understand exactly what was to be achieved by bringing together the best of "Western scholastic tradition and the Tibetan Buddhist wisdom tradition." What exactly did that mean?

This Buddhist tradition clashed with my reporter's nature: I needed to know the "answer" — now — and preferably in 500 words or less.

I found my answer in our first of many audiences with the most

revered Tibetan Buddhism scholars and leaders. Numb from the bitter cold and still recovering from the 14-hour drive into the Himalayan foothills, we were ushered into the reception room of Ling Rinpoche, a 21-year-old monk who is the reincarnation of the current Dalai Lama's senior tutor.

I struggled to keep up with the customary greeting ceremony that soon would become second nature, bowing to offer a white greeting scarf as the monks did prostrations in respect to Ling Rinpoche. We sipped the ever-present chai tea and tossed pinches of offered barley into the air to guarantee an "auspicious" year.

As the frenzy of activities subsided, Emory College Dean Bobby Paul thanked Ling Rinpoche for receiving us, and initiated a discussion of what had brought us 3,000 miles.

Bobby talked of how Western science had made tremendous advances in our understanding of the physical world while Tibetan Buddhism had devoted millennia to exploring the nature and workings of the mind. Think of the potential for creating new knowledge through a two-way exchange of ideas and scholars and students. Think of what is possible.

Throughout this conversation, the wisdom, intellectual curiosity, humor, and passion for inquiry were characteristics that emanated from Ling Rinpoche, indeed from all of the scholars we met — most notably the Dalai Lama. I was humbled to be witness to these conversations.

Now, three years later, I sat

with the audience of Tibetan Buddhist monastics and listened as Alex, Carol Worthman and P.V. Rao taught science lessons in neurosciences, biology and physics — all translated into Tibetan.

Again I felt the wisdom, intellectual curiosity, humor, and passion for inquiry emanate — this time from Emory professors — which was returned in good measure by the monks who eagerly lined up to ask questions.

The dialogue between the scholars and students — one representing Western philosophy, the other Eastern — could have gone on all night. So, I thought, this is what it's like to witness the creation of new knowledge, this is how it begins.

When we met with Ling Rinpoche in 2005, we were given bright red protection cords with his blessing. A monk helped me to wrap the cord around my wrist and knot it many times. Since then, whenever I felt particularly discouraged, impatient, cynical or on the verge of revealing my ignorance, the cord served as a reminder of what was possible when you possessed an open heart and mind.

After nearly three years of constant service, the red string had faded to white and disintegrated from my wrist just before my trip. At the Dalai Lama's teaching, much to my delight, we received a bright red protection cord with his blessing. My good friend Geshe Kalsang Damdul tied the string around my wrist and patted the knot into place, and the lesson continued, and continues.

I'm good for three more years.



Tibetans welcome His Holiness the Dalai Lama to the Drepung Loseling Monastery.

IRENE LEE



Geshe Kalsang Damdul and Lobsang Tenzin Negi, ETSI co-director and chair of the Emory-Tibet Partnership, visit with Emory delegation members.

NANCY SEIDEMAN



Nancy Seideman, along with other Emory delegation members, received thanks from the Drepung Loseling Monastery for their visit.

IRENE LEE

SOUNDBITES

Students, don't let debt stall action

"A recent survey of university administrators found that they're losing more students to credit-card debt than to academic failure," said alumnus Samuel Jackson, adding that the average student debt load after graduation, combining student loans and credit card debt, is more than \$25,000.

Jackson, who delivered the keynote address at Emory's Founders Dinner on Feb. 4, is president and CEO of the Economic Empowerment Initiative, a nonprofit that provides financial literacy training to youth.

Despite these statistics, Jackson's main message to students was a hopeful one. "Have courage to take action," he said. "There's someone here tonight who may have the next Facebook idea or the next Google. And I hope you'll call me, so, you know, we can talk."

— Carol Clark

Teen brain holds clues to psychoses

"We really are in a new era in terms of understanding normal and abnormal brain function," said Elaine Walker, Samuel Candler Dobbs Professor of Psychology and Neuroscience, who gave the Distinguished Faculty Lecture on Feb. 5.

Emory is part of a National Institutes of Health consortium of leading research institutions that are studying changes in the adolescent brain and hormonal levels to identify teens at risk for developing psychoses.

"The overwhelming majority of people go through the teenage years with no major glitches and only a small proportion will develop serious mental disorders," Walker said. "If our research is successful, we hope that that proportion will be even smaller," she added.

— Carol Clark

Suggestions for a creative campus

University rankings fail to consider creativity, while research shows it is increasingly important for success, said Steven Tepper, a sociologist studying engagement in arts and creativity on American campuses, in a Feb. 4 lecture.

Tepper's "creativity ranking" of the U.S. News and World Report's top 30 schools shows Cornell nudging Harvard out of the No. 1 spot, and Emory in 25th place. To improve the rank, he suggests more support for cross-cultural, collaborative, artist residency and interdisciplinary activities, along with a "shift in how we value and deploy the arts, flexible resources for creative hunches" and "a safe environment for failure."

— Sally Corbett

SCIENCE: Visit focuses curriculum

Continued from the cover

on implementing a science curriculum for monastics was apparent in the venue he selected to formally introduce the ETSI to the Tibetan Buddhist community.

The Dalai Lama inaugurated the program at a gathering of about 40,000 monastics, Tibetan Buddhist leaders, Tibetan natives, Indian officials and special guests at the opening of the monastery's prayer hall on

Jan. 7.

Vice President Gary Hauk brought greetings from the University, and talked about what the ETSI will mean to all participants. "We believe we have something to offer through the tradition of Western science, which has been so effective in opening the mysteries of the physical world. And we know that we have much to learn from your own venerable tradition about the interior world of consciousness."

Although the Emory delega-

tion was able to attend the Dalai Lama's teachings and a private audience, the faculty spent much of their time in late-night sessions refining their presentations, reviewing scripts with interpreters, and dealing with the inevitable glitches.

Ultimately all three presentations went off without a hitch, generating lively discussion and interest, as evidenced by the stream of monks who lined up to ask questions (often prefacing their queries by expounding on their own viewpoints, proving

that students are students no matter what the culture).

"As educators, we hadn't taught such a population — highly intelligent, enthusiastic, but lacking knowledge of basic scientific concepts that we take for granted in teaching," said Preetha Ram, ETSI co-director. "Their questions gave us a window into how they think, which will help us focus curriculum for this program, and also give us new ways to approach teaching in Emory classrooms."

Items are compiled from the University's master calendar, Events@Emory, and from individual submissions to Emory Report. Submit events at least two weeks prior to the publication date at www.events.emory.edu or christi.gray@emory.edu. Listings are subject to space limitations.

ADVANCE NOTICE

Dooley Cup II: The duel continues

The Student Government Association Red Sox will take the field against the Druid Hill Administration Orioles in the second annual Dooley Cup, Feb. 18.

The softball match, held on the varsity softball field from 3:30 to 5:30 p.m., begins with a ceremonial first pitch by Lord Dooley. The national anthem will be led by Vice President Gary Hauk on trumpet and a student singer, and a capella groups AHANA and Aural Pleasure will entertain the crowd during the mid-game stretch.

Great Debate hosts Nader

Political activist and former presidential candidate Ralph Nader will speak about activism and the environment Tuesday, Feb. 19, 7 p.m. in Glenn Memorial Auditorium.

An open reception and book signing will follow. The speech is part of the College Council's Great Debate.

Tickets will be available at the Dobbs Center Info Desk beginning today, Feb. 11.

Status: not quo at PCSW

The President's Commission on the Status of Women is holding its annual Open Forum on Feb. 20 from 4 to 5 p.m. in the Jones Room of the Woodruff Library.

Come hear about the commission's past achievements, its current focus, and the aspects of membership.

Join your own passions about improving the lives of Emory's women with the work of the commission.

For more information, visit www.pcsw.emory.edu.

Unsung Heroines to be recognized

Eight Unsung Heroines will be honored Thursday, Feb. 21, at a reception and dinner at the Miller-Ward Alumni House.

An Unsung Heroine is a woman who has demonstrated extraordinary dedication to issues that affect women at Emory or in the larger community, but whose efforts have not received formal recognition.

The event begins at 5:30 p.m. Cost to attend is \$40 per person or \$30 for Friends of the Center for Women. Reservations are required.

The event is co-sponsored by the Center for Women and the Emory Alumni Association. For more information, contact Sasha Smith at sasha.smith@emory.edu or 404-727-2001.

Athletics

Friday, Feb. 15

Women's Tennis v. Georgia State University. 4 p.m.*

Women's Basketball v. University of Chicago. 6 p.m.*

Men's Basketball v. University of Chicago. 8 p.m.*

Saturday, Feb. 16

Women's Softball v. University of North Carolina, Greensboro. Noon. (Invitational)*

Women's Tennis v. Auburn University, Montgomery. Noon.*

Men's Baseball v. Millsaps College. 1 p.m.*

Men's Tennis v. Auburn University, Montgomery. 3 p.m.*

Men's Tennis v. Shorter College. 6 p.m.*

Sunday, Feb. 17

Women's Softball v. Maryville College. 10 a.m. (Invitational)*

Men's Basketball v. Washington University. Noon.*

Men's Baseball v. Millsaps College. 1 p.m.*

Women's Basketball v. Washington University. 2 p.m.*

Women's Softball v. Wesleyan College. 2 p.m. (Invitational)*

*Woodruff P.E. Center. Free. 404-727-6447

Film

Wednesday, Feb. 13

"Written on the Wind." 8 p.m. 205 White Hall. Free. 404-727-6257. www.filmstudies.emory.edu.

Performing Arts

Monday, Feb. 11

Book Reading. Bruce Covey, poet, and Laleh Khadivi, fiction writer, reading. 6:30 p.m. 311 Woodruff Library. Free. 404-727-5050. Reception at 6 p.m.

Thursday, Feb. 14

"What I Heard About Iraq." Michael Evenden, director. Eliot Weinberger, playwright. 7 p.m. Theater Lab, Schwartz Center. \$15; \$12, discount categories; \$6, students. 404-727-5050. Runs through Feb. 29 at various times and locations. For full schedule visit www.arts.emory.edu.

What's New in Poetry. Andrew Zawacki and Julie Carr, reading. 8 p.m. Jones Room, Woodruff Library. Free. 404-727-6223.

Friday, Feb. 15

Emory Chamber Music Society of Atlanta Noontime Series. Eun Sun Lee, violin, performing. Noon. Reception Hall, Carlos Museum. Free. 404-727-5050.

Religion

Sunday, Feb. 17

University Worship: "Stories of Faith From the Middle East." 11 a.m. Cannon Chapel. 404-727-6225.

Seminars

Monday, Feb. 11

Public Forum on Virtual Worlds and New Realities in Commerce, Politics and Society. 8:30 a.m. Goizueta Business School Auditorium. Free. 404-727-7504. Pre-registration to this event is required.

"Middlebrow, Erotic Display and the Spirit of the Blitz." Judith Walkowitz, Johns Hopkins University, presenting. 2 p.m. 323 Bowden Hall. Free. 404-727-6555. allison.rollins@emory.edu.

"Religious Literacy: What Every American Needs to Know and Doesn't." Phil Cousineau, Boston University, presenting. 7 p.m. Tarbuton Hall, Oxford. Free. 770-784-4628.

Thursday, Feb. 14

"Transplantation Tolerance." Allan Kirk, surgery, presenting. 7 a.m. Emory Hospital Auditorium. Free. 404-778-1903.

Friday, Feb. 15

"Traumatic Psychosis and the Holocaust: Narrative Forms of the Muted Witnesses." Dori Laub, Yale University School of Medicine, presenting. 2:30 p.m. Fourth Floor Conference Room, Callaway Center. Free. 404-727-1444.

Sunday, Feb. 17

Earthen Buildings of Mali and the Restoration of the Great Mopti Mosque and the Mosque of Djingereiber in Timbuktu. Francesco Siravo, Aga Khan Trust for Culture, presenting, 2 p.m. Reception Hall, Carlos Museum. Free. 404-727-4282.

Monday, Feb. 18

Discussion on Food & Cuisine. Christiane Lauterbach, dining critic; Scott Peacock, executive chef; and Jeffrey Steingarten food columnist, presenting. 4 p.m. Winship Ballroom, Dobbs Center. Free. 404-727-7602. www.csp.emory.edu. Book signing will follow.

Visual Arts

Tuesday, Feb. 12

Gallery Talk with Jessica Stephenson: Introduction to African Galleries. 7 p.m. Carlos Museum. Free. 404-727-4282.

Now Showing

"Robert Rauschenberg's Currents: Features and Surface Series." Carlos Museum. 404-727-4282. Through Feb. 17.

"The Dark Tower Project's Heritage Gallery: An Exhibit of Student Work Focused on Black Culture." 4 p.m. Dobbs Center Gallery. Free. 708-703-7033. Through Feb. 29.

"Democratic Vistas: Exploring the Danowski Poetry Collection." Schatten Gallery, Woodruff Library. Free. 404-727-5050; www.arts.emory.edu. Through May 19.

"Visions and Revisions: An Exhibition of Poems in Process From MARBL's Literary Collections." MARBL, Woodruff Library. Free. 404-727-5050; www.arts.emory.edu. Through May 21.

Lost Kingdoms of the Nile Exhibition and Sub-Saharan African Galleries. Carlos Museum, 3rd Floor. \$7 suggested donation. 404-727-4282. Through Aug. 31.

Workshop

Tuesday, Feb. 12

EndNote Introduction. 2:30 p.m. 310 Woodruff Library. Free. 404-727-6843.

Wednesday, Feb. 13

BibleWorks Introduction. Noon. 304 Bishops Hall. Free. 404-727-1218. jbweave@emory.edu.

Google Scholar, Google Books 3 p.m. 310 Woodruff Library. Free. 404-727-0178. liblab@emory.edu.

Sunday, Feb. 17

Ceramic Workshop for Kids. Ana Vizuragga, ceramist, presenting. 2 p.m. Tate Room, Carlos Museum. \$12, Museum members; \$15, non-members. 404-727-0519. Pre-registration required.

Join Theater Emory on the battlefield



Theater Emory's Michael Weinstock, Jillian Profeta and Hunter Hanger (from left to right) star in "Bury the Dead." SPECIAL

Theater Emory performs from Feb. 21 to March 2 "Bury the Dead," Irwin Shaw's first play, produced in 1936 when he was only 23 and set in "the second year of the war that is to begin tomorrow night." Directed by Theater Emory Artistic Director Timothy McDonough, "Bury the Dead" follows six soldiers killed in battle who rise up from their graves and doggedly refuse to be buried. Word of their insurrection spreads rapidly to soldiers in the field, to hapless generals, and to the news media, with alarming effect — creating a national crisis that is at times wickedly funny.

For tickets and showtimes, visit www.arts.emory.edu.