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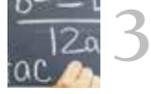


# UNNM Today

## Inside UNM Today

### Killer to kinder classes

UNM builds math safety net



### Digging into history

UNM excavates Mimbres pit houses



### Spotlight

Rodriguez disentangles speech



### Albuquerque poet laureate. . .

is UNM graduate student



## UNM to celebrate 'Super U' homecoming Oct. 1-7

By STEVE CARR

Since 1925, UNM has celebrated homecoming festivities welcoming back not only its alumni, but also inviting every department and organization on campus and the local and greater New Mexico community.

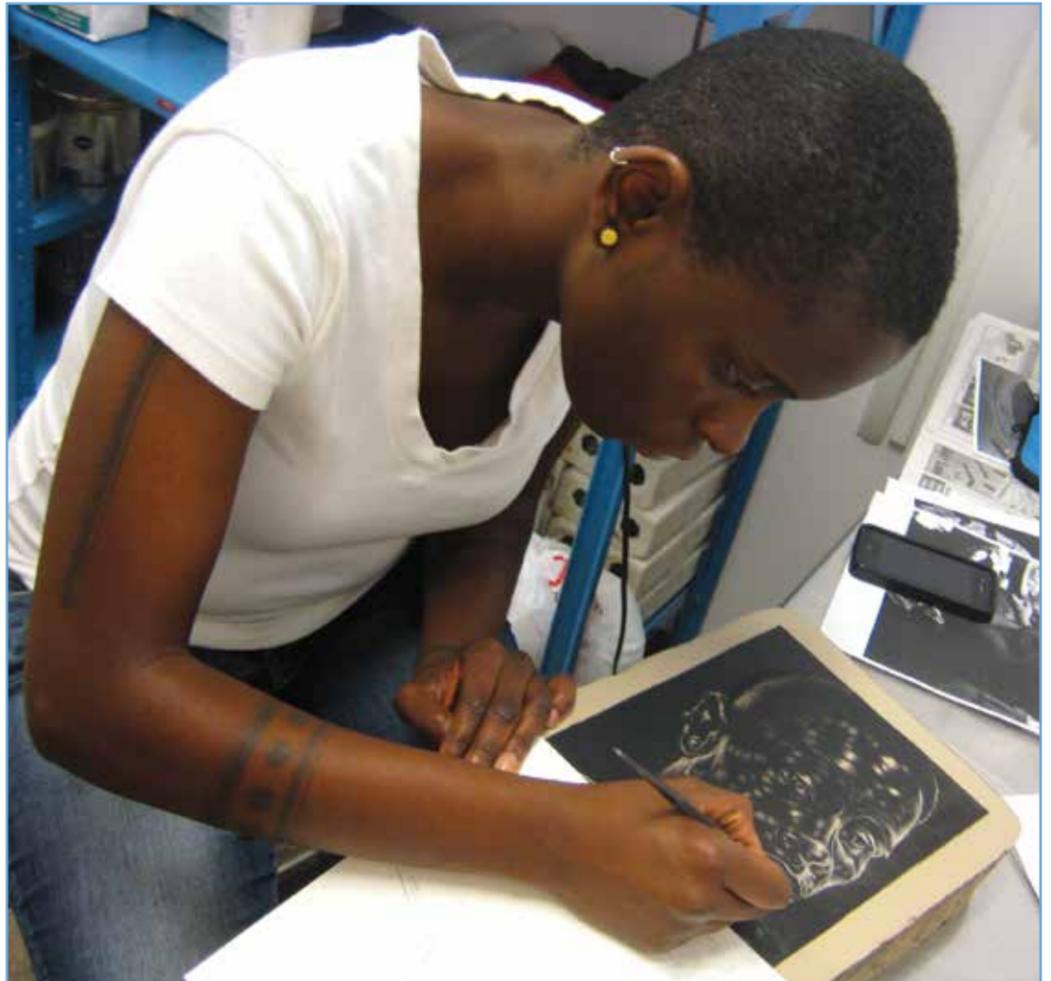
UNM's 88th annual homecoming celebrates the theme "Super U." The festivities, Monday, Oct. 1-Sunday, Oct. 7, look to save and build anew the school's spirit leading up to the installation of

UNM President Robert Frank in November in a community building celebration.

Homecoming week features more than 50 events, most held on campus and free to all. The celebration culminates on Saturday, Oct. 6, at 4 p.m. when the Lobos take on the Bobcats of Texas State at University Stadium. Halftime includes the coronation of the homecoming king and queen.

"Each year, the homecoming committee challenges

*Continued on Page 6*



Toyin Odutola is one of three African American artists, paired with three Afro-Brazilian artists, who created original lithographs at the Tamarind Institute over the summer.

PHOTO BY SARI KROSINSKY

## Walmart initiative improves student success at UNM

By SARI KROSINSKY

The high failure rate in many introductory courses can have ramifications beyond the class that can derail a student's future. "We need more scientists and engineers to solve the serious challenges the world faces, and this is where they start," said Sushilla Knottenbelt, visiting assistant professor of chemistry who teaches Chemistry 121 at UNM. "It's

essential that we don't turn them away at the first hurdle."

Chemistry 121 now has the highest pass rate since records have been kept. Knottenbelt and 11 other instructors participated in the Walmart Minority Student Success Initiative at UNM, a national project focused on improving student success in large-enrollment, lower-division courses that present obstacles to student

retention and graduation. Science, technology, engineering and mathematics or STEM gateway courses are often the biggest hurdle students have to jump. Gary Smith, principal investigator for the Walmart initiative and director of UNM's Office of Support for Effective Teaching, said Knottenbelt's efforts under the initiative took Chemistry 121 off

*Continued on Page 3*

## Seven promoted to distinguished professor

By CAROLYN GONZALES

The UNM Office of the Provost announced the promotion of seven faculty to the rank of distinguished professor. To be considered for promotion to distinguished professor, faculty must demonstrate outstanding achievements and be nationally and internationally renowned as scholars. This is the highest faculty title the University bestows.

UNM's new distinguished professors are David Brookshire, Department of Economics; Marianne Berwick, Department of Internal Medicine; Jane Lancaster, Department of Anthropology; Eric Loker, Department of Biology; David Schade, Department of Internal Medicine; Howard Yonas, Department of Neurosurgery; and Victor

Strasburger, Department of Pediatrics.



David Brookshire

Brookshire, who earned his doctorate from UNM in 1976, is the first economics professor to be promoted to distinguished professor. He is director of the UNM Science Impact Laboratory for Policy and Economics. Brookshire specializes in environmental and resource economics. He has served as policy sciences editor of Water Resources Research, on the executive

board of the Sustainability of semi-Arid Hydrologic and Riparian Areas Science and Technology Center at the University of Arizona, on three national research panels and as an economist for the National Water Commission, the U.S. Department of Commerce and the U.S. Geological Survey.



Marianne Berwick,

Berwick, professor in epidemiology, biostatistics and preventative medicine, a division

*Continued on Page 4*



## TEDxABQ talk delves into UNM professor's research for his son

By BENSON HENDRIX

Vince Clark's journey to speak at the recent TEDxABQ started several years ago.

It started with a father's love for his son and his concern that his son wasn't receiving proper medical care, despite having access to modern medicine and advanced medical techniques.

"My son got very sick when he was nine. He developed a

pain syndrome that developed into a motor illness," Clark said.

Clark's son Ryan was suffering with constant, near crippling pain and had developed Tourette's syndrome-like tics, motor problems affecting his posture, muscle spasms and tremors.

Clark pulled Ryan out of school and the child was

*Continued on Page 5*



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## In Brief

### JAR LECTURE PRESENTS 'NEANDERTALS & FOLKS LIKE US'

Professor and Chair of the Anthropology Department at Illinois State University Fred Smith will present the 35th lecture sponsored by the Journal of Anthropological Research on "Neandertals & Folks like Us" on Thursday, Sept. 20, at 7:30 p.m. at the Anthropology lecture hall, room 163.



He will also present a specialized seminar "Vindija Cave (Croatia): Late Neandertals in South-Central Europe" on Friday, Sept. 21, at noon in Anthropology, room 248.

Smith is one of the world's leading experts on the Neandertals, those ever-enigmatic near-humans who inhabited Europe and the Near East from 300,000 to 30,000 years ago. For more than 40 years, he has conducted research in Croatia, former Yugoslavia, and has specialized in the anatomy of the Neandertals of the Balkans, most notably the large assemblages of remains from Krapina and Vindija caves.

### UNM SCHOOLS RANKED AMONG BEST FOR HISPANICS

UNM graduate schools are ranked among the "2012 Best Schools for Hispanics" as reported by HispanicBusiness.com. The schools are ranked based on effectiveness in attracting Hispanic students in medicine, business, engineering and law. They rank the top 10 in each discipline.

UNM's Anderson School of Management ranked third among business schools nationally. The School of Engineering ranked fourth, the School of Law fifth and the School of Medicine eighth.

At Anderson, Hispanic students represent 35.2 percent of total graduate enrollment, with 39.5 percent of Master of Business Administration degrees awarded to Hispanics.

The School of Engineering has 22 percent Hispanic enrollment. Retention rate for Hispanics in the 2010-11 academic year was 74 percent.

Hispanic students represent 27.6 of the School of Law's student body, with 31.1 percent of Juris

Doctorate degrees earned by Hispanics.

Graduate enrollment at the School of Medicine is 28.9 percent Hispanic, with 31.3 percent of Medical Doctorates earned by Hispanics.

### CANCER CENTER TO RECEIVE NEXT-GENERATION GENOME SEQUENCER

The UNM Cancer Center is among a small number of sites worldwide selected to receive one of the first 20 units of the next-generation ion proton genome sequencer.

Genome sequencers help researchers discover the exact sequence of an individual's DNA, which carries the instructions for protein manufacture inside a cell. If these instructions go awry, the proteins that the cell builds may not function properly, and improperly functioning proteins can sometimes lead to cancer.

Existing whole genome sequencers can take two weeks to sequence an entire genome at a price of around \$10,000. The new ion proton genome sequencer will be able to sequence the entire human genome of 3 billion bases in half a day for \$1,000. Comparison of the entire genome from cancerous and noncancerous cells from the same individual could be used to individualize cancer treatment, a process known as precision medicine.

### CYBERINFRASTRUCTURE DAY SET FOR SEPT. 28

Managing research data is becoming increasingly paramount at institutions of higher learning. Issues surrounding data including storage, curation and access need to be addressed. On Friday, Sept. 28 at New Mexico



Cyberinfrastructure Day 2012, managing research data is the focus of a one-day, statewide conference for science and humanities researchers at the Hyatt Regency Hotel Downtown.

The agenda focuses on data management best practices and other related topics, with speakers from New Mexico's research institutions including UNM, New Mexico State University and New Mexico Tech, targeting the humanities and hard science audiences.

Also featured is a keynote with an Apple Computers representative, "Create, Curate, and Con-

nect with iTunes University."

Conference registration is \$30 and includes a welcome reception Thursday, Sept. 27, at 4:30 p.m., and a light breakfast and lunch on conference day. The deadline is Friday, Sept. 21. Visit [cyberday.unm.edu](http://cyberday.unm.edu).

### LOBO GROWERS MARKET OPEN WEDNESDAYS

UNM's Sustainability Studies Program arranged for the Lobo Growers Market to open every Wednesday through Oct. 7, 10 a.m.-2 p.m. on the Cornell plaza.

During the past two spring semesters, Jessica Rowland, the Lobo Growers' Market course instructor, has offered a hands-on practicum class that explores N.M.'s foodsheds and teaches students how to organize and manage a growers' market on campus.

"Numerous students have suggested that our program create a market that operates on a weekly basis during the fall semester, when local produce is at its best and most abundant," Rowland said. "I'm so pleased that this dream is now a reality and that one of our very own Sustainability Studies students (Kimberly Barnett) is the market manager."

Visit [abqstew.wordpress.com](http://abqstew.wordpress.com).

### UNM, SFCC AGREEMENT CLEARS COLLEGE PIPELINE

UNM President Robert Frank and Santa Fe Community College President Sheila Ortego signed an agreement recently with Santa Fe Community College Higher Education Center, a learning district established by SFCC. Under the agreement "UNM shall offer, at its discretion, courses facilitated through the Extended University operation."

The Higher Education Center will provide computer laboratories and library facilities as well as testing and tutoring services at no cost to students. Textbooks for the courses will be available for purchase and resale at SFCC.

Ortego said that the agreement allows UNM to have space at SFCC. Students can talk to advisers about courses of study, taking UNM courses online or plotting an academic plan.



## Health Forum

### HSC to enrich N.M. middle school science program

UNM's Prevention Research Center and Department of Pediatrics Professors Sally M. Davis and Shiraz I. Mishra and researchers and educators from the UNM College of Education were awarded \$1.3 million over five years from the National Institutes of Health's Science Education Partnership Award to implement a science enrichment program in five tribal and non-tribal, predominantly Hispanic middle schools in rural New Mexico.

American Indians and Hispanics historically have been under-represented in the scientific fields, and the number of American Indian and Hispanic students graduating with science and engineering degrees is steadily declining. Chronic diseases like obesity, type 2 diabetes and cancer are a major health concern for American Indians and Hispanics.

"The lower representation of American Indians and Hispanics in the sciences coupled with higher burden of chronic diseases among these populations poses a serious national challenge," Mishra said. "Through the use of innovative technologies and educational strategies, we hope to foster and nurture interest among middle school students about careers

in the sciences."

The Science Education Partnership Award was created to encourage active biomedical and behavioral scientists to work as partners with educators, media experts, community leaders and other organizational leaders on projects that improve student understanding of the health sciences in K-12 education and increase the public's understanding of science.

The NM FRESH: New Mexico's Future Researchers Exploring Science and Health research project is the first time in the 21-year history of the Science Education Partnership Award that New Mexico, an IDEA: Institutional Development Award state, has received the award.

"This project builds on the UNM PRC's extensive expertise in school and community based prevention research," Davis said. "The project will shift educational paradigms by including research-tested nutrition and physical activity content in a progressively detailed science enrichment curriculum, which will be supported by health and science fairs, Web-based activities to enhance critical thinking, student mentoring and professional development for teachers."



## Student News

### NM CARES Health Disparities Center opens doors to research

BY NORA CHAVEZ

Marisa Rivera knew in high school that she wanted to come to UNM. Her father was a graduate of the UNM School of Medicine, and as a child she often visited his practice. But it wasn't until she was in college that her love of biology led her down the path to medicine.

During her senior year, Rivera applied to the Undergraduate Pipeline Network, a summer internship with a stipend, and was one of 30 students selected out of 300 applicants. The program cultivates student interest in research while teaching skills needed to apply for and succeed in post-baccalaureate education.

Because of her interest in public health, Rivera mentored under Lisa Cacari-Stone. Cacari-Stone is director of the community engagement core at New Mexico Center for Advancement of Research, Engagement and Science on Health Disparities, assistant professor



Marisa Rivera

at the Department of Family and Community Medicine and senior research fellow with the Robert Wood Johnson Center for Health Policy at UNM.

Rivera was excited to learn that Cacari-Stone was mentoring her work with the Programa de Investigación en Migración y Salud. PIMSA funds binational teams whose research focuses on migration and health within current policy contexts. Cacari-Stone had just received a grant to research health disparities along the border region.

Rivera visited a colonia just outside of Las Cruces and saw

*Continued on Page 3*

## UNM Technology Business Plan Competition helps create high-paying jobs

During the past five years, more than \$200,000 has been awarded through UNM's Technology Business Plan Competition. Now entering its sixth year, the competition has become a staple for students from all UNM schools and colleges to collaborate on teams that commercialize technology products developed at UNM, Sandia National Labs and Los Alamos National Lab. The central theme of the competition is the creation of wealth and high-paying jobs.

Offering a top-prize of \$25,000, the Technology Business Plan Competition is specifically focused on creating new technology companies with proprietary intellectual property, firms that can be funded by venture and angel capital groups. Through the competi-

tion, UNM contributes to New Mexico's success by encouraging students and alumni from all areas of study to collaborate on teams that will commercialize new technologies.

"UNM's strategy to organically grow small technology businesses is consistent with all studies that point out that small businesses create new high paying jobs and increase wealth in a community," said Distinguished Professor of management Sul Kassiech, who coordinates the competition.

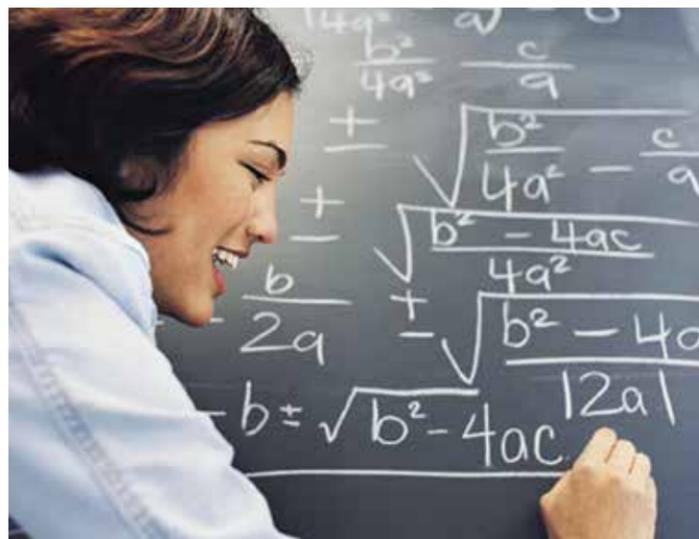
Teams present business plans based on technological intellectual property, with the permission of the owner of that intellectual property, to a group of judges consisting of successful entrepreneurs, venture capitalists, technologists and other business experts from accounting, law

and management. Each team is expected to propose a plan about a company that is in its formative stages.

These student-owned start-up firms bring technological innovations based on a solid intellectual property position from lab to market and boost economic development in New Mexico by using the state's entrepreneurial talent and technical expertise to start new enterprises. The Technology Business Plan Competition offers teams exposure for their businesses and prize funding for their firm.

"The educational experience is a wonderful addition to the New Mexico capabilities, and we hope that we can grow a 'home run' company here as a result," Kassiech said.

Visit [techbizplan.mgt.unm.edu](http://techbizplan.mgt.unm.edu). ■



## UNM builds safety net for killer classes

By KAREN WENTWORTH

Mathematics Lecturer Tamra Mason is part of a group building a safety net for students facing the uncertain depths and hidden obstacles of mathematics. "Sometimes we find the problem is things students should know but don't, like how to add fractions," Mason said. "If they have a critical gap in some area of knowledge, students sometimes don't realize that until they are already in trouble." From the day she was hired at UNM last year, Mason worked with a math working group given the charge of finding a way to help students learn what they need before they fail a math course and drop out of school.

Math is typically a sink or swim proposition. Intermediate Algebra or Math 120 is one of the first courses incoming freshmen hit. Every class has 60 students. The course has 23 sections to accommodate 1,400 students. Of students who take course, 54.6 percent fail.

This fall 200 of those students are in a pilot program Mason hopes will bring them into calmer waters. In this course there are no lectures. Instead, students work in a Math Learning Lab or MaLL where computers are pre-loaded with the course curriculum. Times are staggered so only a few students are in the learning lab at any particular time.

Each student takes an online assessment and is given a course of individual study designed to fill in knowledge gaps and move through the three modules that comprise the course.

For some students it's easy sailing. For others it's a long hard slog, but they can learn

at their own pace, something that doesn't happen in a normal class. Faculty, graduate students or peer instructors are always in the pod to help students over difficult parts of the curriculum. Instructors can monitor students' online progress and step in to help if a student seems stalled over a particular problem.

Mason and faculty in the working group searched for ways to teach math focused on the needs of the individual student. This method has worked at other universities and the group thought it had a good chance of working here. In January, Robert Frank was appointed president of UNM and endorsed the recommendation immediately. Frank had been provost at Kent State in Ohio and had implemented a similar change there. He was pleased with the results. "The MaLL allows more student success in the first math course, providing a rehearsal in critical math skills," Frank said. "We know this approach is effective and can move more students toward graduation."

A portion of Centennial Library will be remodeled to become a much larger and better equipped permanent lab for more sections of math study. That will allow a major expansion of the new teaching technique.

Mason said one benefit of the new system is that students can't be anonymous. Faculty and graduate teaching assistants will know quickly who is in trouble and what is causing problems. She said that will allow for early intervention so students don't get discouraged and give up. ■

## UNM COSAP promotes 'Fun in the 505'

By STEVE CARR

The UNM Campus Office of Substance Abuse Prevention, COSAP, hopes "Fun in the 505," the informative booklet outlining a myriad of things to do in the 505, is a hit with students.

The booklet was researched, designed and created for UNM students by students in the COSAP office as an alcohol-free alternative for activities in the Albuquerque area. The booklet is broken down into categories including "Adventurous," "Intellectual & Artsy," "Hungry" and "Musical" and lists ideas, addresses, phone numbers and websites designed to provide students with fun things to do.

"There is quite a bit of research that says if you provide students with alcohol-free alternatives and safe ideas to have fun, they are more likely to participate and engage with other students in these activities," said John Steiner,

COSAP program manager. "There is science involved with what we included and where we placed it in the book."

Other sections include "Stressed," which offers students ways to combat stress, "Random," "Local" and a section on when students might be "Topsy" that offers safe ways and means to get home.

The booklet was developed over the course of a year by the COSAP team. The idea evolved after Steiner discovered information in a pamphlet someone brought back from a conference on alcohol awareness that gave students at an Illinois school 101 fun things to do without alcohol. It was a low-tech effort Steiner thought his crew could do better.

"COSAP is the only UNM on-campus program that works to support the student population with a wide array of substance abuse prevention strategies, services and infor-

mation to ensure the safety, success and well-being of UNM students," Steiner said.

The "Did You Know" pages before each category evolve from social norms campaigns, attempting to get students thinking about their behavior in relation to the norms on their own campus. The idea is to provide the stats on what actual rather than perceived alcohol behaviors are on campus and to focus on the positive things students are doing. COSAP data indicates that most of the Lobos are already using alcohol safely.

The booklet is available at all of UNM's residence halls, Lobo Village and the new Casas del Rio. Students may also obtain a copy at the COSAP office in room 3059, Mesa Vista Hall, where they can also ask personal and confidential questions related to alcohol and substance abuse.

Visit [cosap.unm.edu](http://cosap.unm.edu). ■

auditoriums where students traditionally learn only passively into active, collaborative learning communities where students learn from each other as well as from the expert instructor and undergraduate peer-learning facilitators.

Participating instructors said that they were better connected to their students and that attendance improved in collaborative-learning classrooms. Most instructors in the one-year project saw improvement in average grade.

Survey responses show that students felt they learned more working with classmates and

peer learning facilitators than they would have by lecture alone. Surveys also show that while all students perceived greater learning in a collaborative learning environment, that preference was greater among first-generation college students.

The programs begun through the Walmart initiative have continued and expanded under the umbrella of the Project for Inclusive Undergraduate STEM Success, or STEM Gateway, which received a five-year grant for \$3.8 million from the U.S. Department of Education. ■

Mexico border characterized by substandard housing, inadequate roads, poor drainage and substandard or no water and sewer facilities. The place reminded her of her father's childhood home.

"I just knew it as the place where my father grew up," Rivera said. "I didn't see or under-

stand the disparities until I was involved in this project. It was eye-opening to see another aspect of medicine and how health policies affect the individual – who seeks care, who doesn't and why." The experience cemented her commitment to medical school and to becoming a family practitioner. ■

Continued from Page 1

### Walmart

of UNM's list of courses with problematic pass rates in one semester.

The project worked primarily with math and science faculty to replace lectures with a more collaborative, learner-centered form of education. Studies have shown that balancing lectures with time for students to collaboratively problem-solve, develop projects or respond to short assignments with classmates can improve grades and retention.

The Walmart initiative transformed large lecture rooms and

Continued from Page 2

### Student News

the disparities facing residents in health care, housing and economics. Colonia means neighborhood in Spanish, but in the United States, it refers to the rural, unincorporated settlements along the U.S.-



UTEP's José Villalobos and UNM's Susan Tiano take a question from UNM's Christine Sierra during a television program featured on KRWG, the PBS affiliate at NMSU.

PHOTO BY RICHARD J. SCHAEFER

Continued from Page 1

## Distinguished professors

she has led since 2004, was instrumental in securing the UNM Cancer Center's National Cancer Institute Cancer Center status in 2005 and 2010. She has 25 years of continuous funding from the National Cancer Institute, an extensive publishing record, as well as a list of honors and awards including the Australian Society for Oncology Award, the Stanley Davidson Lectureship, Royal Society of Edinburgh, and the LILAC Award for cancer research, Memorial Sloan Kettering Institute. Berwick earned master's and doctorate degrees at Yale.



Jane Lancaster

Lancaster is a 40-year anthropologist with an international reputation for her research on hominin biosocial evolution. She has studied primates and humans in both contemporary and ancient contexts. She specializes in what used to be called physical anthropology, but today is called human evolutionary anthropology. Her training was as a primatologist and paleoanthropologist, and she has added expertise in contemporary human

reproduction viewed through the lens of evolutionary ecology. Lancaster has pioneered research in primate socio-ecology. She is at the forefront of research in human evolutionary ecology that focuses on longer lifespans, differentiated roles and greater investment in offspring.



Eric Loker

Loker, regents' professor, is an internationally recognized parasitologist with a long track record of scholarly publishing, research funding and mentoring junior investigators. Loker's research in molluscan immunology has shown that snails have an immune system that uses diversified receptors, like the antibody system in humans and other animals. Loker's work is cited in a leading textbook as the first and best evidence that invertebrates have an adaptive immune system thought only to occur in vertebrate animals. This established new paradigms in theories on immune system evolution as well as providing an understanding of how species like snails, which are host to human pathogens, cope with their own infections.

Schade, professor of medicine, decided early in his academic research career to focus on the clinical treatment of diabetes and its complications. His salary has been funded continu-



David Schade

ously, in part, by the National Institutes of Health and the American Diabetes Association for the past 45 years. His studies included implanting a remotely controlled insulin pump in type 1 diabetes. He established a Diabetes Research and Treatment Center to facilitate his two large, multi-center, NIH-supported diabetes grants. Schade recently received two \$600,000 grants from the American Diabetes Association to study improved treatments of type 1 diabetes and the pathogenesis of atherosclerosis in type 2 diabetes. This year, he received a \$4 million NIH comparative effectiveness grant.

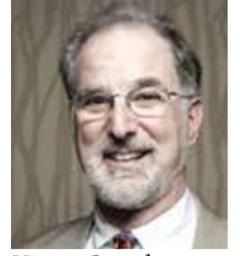


Howard Yonas

Yonas is a nationally recognized cerebrovascular surgeon and an internationally recognized expert on cerebral blood flow, metabolism and monitoring brain activity. Yonas established the UNM Department of Neurosurgery in 2005, is a prolific writer, has received more than \$10 million in grant

funding and has an ongoing project to develop a statewide telemedicine network to evaluate and manage acute stroke. In recognition of his seminal contributions to the science and practice of neurosurgery and the health and well-being of his patients, Yonas was named the inaugural A. Earl and Agnes M. Walker chair of neurosurgery in 2009.

Strasburger, professor of pediatrics, is chief in the Division of Adolescent Medicine. He is an internationally recognized leader in academic medicine who has dedicated his career to improving adolescent medicine. He lectures extensively and has published six textbooks and seven other books. Among his most sig-



Victor Strasburger

nificant achievements is raising children and media as a pediatric issue for the American Academy of Pediatrics and for pediatricians around the country, helping to create the current television ratings system. He founded the only clinical journal in his field, Adolescent Medicine: State of the Art Reviews, and his textbook, "Children, Adolescents, & the Media" is used on college campuses across the country. ■



From left: Alexandra Pina, Jenny Hoffman and Francesca Tharpe. PHOTO BY MAX WOLTMAN

## Metamorphoses brings myths of Ovid to stage

By KATHLEEN CLAWSON

UNM's Department of Theatre and Dance opens its 2012-13 production season with Mary Zimmerman's "Metamorphoses," directed by Joe Alberti, Friday, Sept. 28-Sunday, Oct. 7 in the Experimental Theatre. Zimmerman's adaptation of the classic myths of Ovid infuses these ancient stories with contemporary language, humor and thought. Playing more than 60 roles, an ensemble of 16 actors present 10 tales, all woven together through music, movement and storytelling as gods and mortals interact in this award-winning play.

"Metamorphoses" was described by the New York Times as "the place in which dreams and reality, the primal and the particular melt and merge, devastate and console." While many may not have read Ovid's original text, audiences will recognize the stories: King Midas who turns everything he touches into gold, the musician Orpheus who descends into the realm of Hades to retrieve his love Eurydice, and Narcissus who falls in love with his own reflection. These familiar stories are often given a modern twist, as when Phaeton, the son of Apollo, complains to his therapist about his troubled relationship with his father. According to Time Magazine, the play "recaptures the allure of the theatre... it shows that theatre can provide not just escape, but sometimes a glimpse of the divine."

This is the first time that Assistant Professor Joe Alberti will direct for the Department of Theatre and Dance at UNM. Originally from Boston, Mass., Alberti joined the faculty last year. He has directed more than 60 plays and has voice and dialect-coached professional and college productions.

The set design for "Metamorphoses" is by Associate Professor Gordon Kennedy. Student designers, mentored by faculty, are Michael Hidalgo, lighting design, and Sarah Wyman, costume design. Student Kimberly Jennings is the stage manager. Original composition and sound design are by Casey Mraz, who will perform live during the production. He is using an ancient Armenian instrument, the duduk, for much of the music in "Metamorphoses."

Performances of "Metamorphoses" are Thursday, Friday and Saturday at 7:30 p.m. and Sunday at 2 p.m. in the Experimental Theatre, located in the lower level of UNM's Center for the Arts. The production is recommended for teens and above. Ticket prices are \$15 general admission, \$12 UNM faculty and seniors, and \$10 UNM staff and all students. Tickets are available at the UNM ticket offices at the UNM Bookstore or the Pit, by calling (505) 925-5858, or online at unmtickets.com.

Visit theatre.unm.edu or call (505) 277-4332 for more information. ■

## UNM Contract Archeology excavates Mimbres pit houses

By KAREN WENTWORTH

It's the classic experience undergraduate and graduate anthropology students in the southwest dream about. Beautiful, vivid fragments of Mimbres pottery, tiny arrowheads smaller than a fingertip, seeds and animal bones, metates used to grind corn, rocks chipped and shaped to form the head of a hoe that was used to cultivate plants. Those are some of the artifacts UNM students working for the Division of Contract Archeology brought back from southwestern New Mexico this summer.

The project near Lake Roberts in the Gila National Forest is funded by the New Mexico Department of Game and Fish. The department is preparing to repair the dam at Lake Roberts and knows the construction project will likely damage prehistoric Mimbres pit houses in the area, so the Division of Contract Anthropology was hired to survey and excavate the site. The artifacts and the story they tell about the Mimbres people who lived here will be preserved and eventually put on display.

The sites are from the classic Mimbres period 1000-1150, but it may be possible to narrow the time frame after bits of charcoal collected from hearths

at the houses have been carbon-dated. The Mimbres people were part of a larger Mogollon culture living in the southwest, but their pottery is so distinct that anthropologists have been able to identify them as a separate group living within the larger culture.

Robin Cordero is the staff member in the Division of Contract Archeology who leads the project. He's also a graduate student working to complete his doctorate. Cordero said they have been surveying and excavating since May 2011. Much of the excavation has been completed.

Cordero said they brought back more than 20,000 pieces of chip stone and more than 13,000 pieces of pottery. "Each and every artifact that we bring back has to be washed with a toothbrush and scrubbed to get all of the dirt and the clay off of them. And then all of these big bags of soil that we've brought back have to be washed and processed to get all of the small seeds and all of the really fine pieces of bone and fine little artifacts out," he said.

More than 400 pieces of animal bone were collected. Cordero said this will tell them what the Mimbres people were



hunting and eating. He and some of the students will go to UNM's Museum of Southwestern Biology to compare and identify their finds with reference samples at the museum. He said they already know the inhabitants of the pit houses were eating fish, deer, rabbits and mice. Cordero said the inhabitants of the pit houses also farmed. In addition to the hoe heads and metates they found, they are also sifting the soil to determine what kind of seeds were in their diet.

Some students involved in the excavation will take a ceramics class at UNM this fall, working with anthropology Professor Patricia Crown, an expert on pre-historic southwestern pottery. They will do specialized analysis on pottery pieces they helped collect. ■

## Employee Spotlight

### Rodriguez disentangles speech

By CAROLYN GONZALES

When teaching, Barbara Rodriguez, associate professor, Department of Speech and Hearing Sciences, might mention to her class that she is from Española, N.M. “Students come up to me and say, ‘I’m from Española, too!’ or they might say they’re from Las Vegas, Taos or Mora. I think they respond that way because it’s the first time they’ve come across a faculty member from home,” she said.

Like many students from Northern New Mexico, she set her sights early on attending UNM. “I come from a long line of educators on my mother’s side,” she said. Rodriguez earned both bachelor’s and master’s degrees in communication disorders from UNM before going to the University of Washington for her doctorate.

She said that people view the scope of the practice very narrowly. They know that speech-language pathologists work with children who have a lisp or a stuttering problem. But they don’t know that speech-language pathologists assess and treat voice, speech and swallowing in adults with head and neck cancers.

“They don’t know that we help children who are non-verbal to use augmentative and alternative communication devices. Nor do they understand the speech and language connection to reading,” she said.

Speech-language pathologists don’t just work with those with communication disorders. “We work with the spouse or family of a patient with dementia to help them remember and use compensating strategies. For example, we might suggest the spouse

put together a communication notebook with photos of family members, places and objects,” Rodriguez said.

Another way they help is for individuals undergoing gender reassignment. “If we have a transgender male transitioning to female, she needs to learn female speech patterns and non-verbal communication,” she said.

Rodriguez and her colleagues also work with international students who teach to reduce or modify their accents to promote effective teaching. “We also work with people who have voice disorders from misuse or overuse of their voices,” she said.

For students interested in a field where jobs are readily available, speech-language pathologist is a good option. “New Mexico has a huge need right now,” she said. “Each graduate gets multiple job



Barbara Rodriguez

offers. People come looking for them, from in-state and out-of-state,” she said. She said there’s a particular need for bilingual and Native American speech language pathologists.

Rodriguez’s research, with colleagues in Pennsylvania and Florida, involves developing tools to use to ascertain

if English language learners whose first language is Spanish have legitimate speech disorders or if their speech is typical for speakers of a particular dialect. “The test we’re developing takes dialect into account,” she said. The project has a five-year grant from the National Institute of Health.

### UNM group studies border issues in Chiapas

By CAROLYN GONZALES

Veronica is a 28-year-old migrant from El Salvador who is taking the arduous journey north to the United States for the first time. When the Cross-Border Issues Group caught up with her in late June in Arriaga, Chiapas, she and her husband had been on the road for two months. They left their home, children, jobs and family because the economic situation prevented them from meeting their family’s basic needs. They had no

other options, she said. Their plan is to stay in the United States for five years. She and her husband have thoughts about going to Houston, but they aren’t sure.

Veronica worked 6 a.m.-6 p.m. for \$5 per day to help support her children, who are 13, six and three. She sobs when she talks about leaving her children behind. She is all too aware as she speaks about the dangers of the journey north, of the beatings,

rapes, robberies and deaths. Her voice quivers and she can scarcely get the words past the tightness in her chest. She took the train to Arriaga, but wary of its dangers she was looking for a safer way north.

The Cross-Border Issues Group set out to visit some previously visited migration hotspots in Mexico, including Lecheria, a migrant shelter on the north end of Mexico City, and Hermanos en el Camino (Brothers on the Road), a shelter in Ixtepec, Oaxaca. The trip also included a first, a visit to the shelter in Arriaga, a point along the rail route between Tapachula on the Mexico-Guatemala border and Ixtepec in southern Oaxaca.

This year’s group was just three people, Richard J. Schaefer, associate professor, Department of Communication and Journalism; Carolyn Gonzales, senior communication representative, University Communication and Marketing; and Barbara Gomez-

Aguinaga, UNM journalism student from Mexico City.

Our first-time visit to Hogar de la Misericordia (Home of Mercy), a 58-bed shelter run by Padre Heyman Vasquez in the state of Chiapas, reminded us of the massive flow of humanity coming north to seek jobs and opportunities not available in their home countries. The journey is often a last and desperate option for migrants.

Despite many Mexicans choosing to remain in Mexico either because of United States policies or because of the U.S. economy, Central Americans are still on the move. Vasquez said, “Tabasco is seeing a greater number of migrants. It is dangerous there because of organized crime, kidnappings and beatings.”

Migrants, most of whom come from Central America, ride atop the train they call “la bestia” (the beast) because of the dangers inherent in catching a ride on a moving train, being thrown or falling off, or being

beset by criminals and officials who often prey on the migrants.

Vasquez said he has seen more deportees coming through in recent months. “The migrants stay home for about two months and then are on the road again,” he said. He described the journey as particularly perilous for women and children because they are more likely to fall from the train.

Vasquez said that only 10 percent of the migrants he receives are women, but that most women travel with the assistance of a coyote, or a paid guide, and so they stay in “casas de huéspedes” which means “guest houses,” but they are really way stations for migrants. Coyotes don’t want their clients to stay in albergues because while in the mission migrants are often cautioned against coyotes who may deliver them to human traffickers who use migrants as mules to carry drugs, do sex work or extort money from the migrants’ families. ■



CBIG’s Barbara Gomez Aquinaga and Carolyn Gonzales interview “Veronica,” a migrant from El Salvador.

PHOTO BY RICHARD J. SCHAEFER

Continued from Page 1

### TEDxABQ talk

homeschooled for a year while Clark and his family spent time seeking out medical experts across seven states and six countries to figure out what was wrong with Ryan. Clark, an associate professor of psychology and director of the department’s new Clinical Neuroscience Center, drew on his years of neuroscience expertise and consulted with more than 50 doctors during that year before figuring out what was wrong with Ryan, and more importantly, how to treat him so he could resume a normal childhood.

“The Mayo clinic said they couldn’t help him,” Clark said.

“I took my first sabbatical after 14 years as a professor to spend more time taking care of him and looking for a solution.”

Throughout that year, none of the doctors were able to give Clark or his family an adequate answer for his son’s pain and suffering. Clark eventually was able to discover that a combination of medication and sloppy laboratory work misdiagnosed a rare secondary illness in his son. Once he was taken off of the medication and received the correct diagnosis, Ryan was properly treated and his pain and physical tics vanished.

Once Ryan recovered, Clark started investigating why it took so long for his son to be correctly diagnosed and treated. He wanted to know why so many

doctors and scientists were wrong about the diagnosis.

“When the dust settled we started to look at the whole adventure and look at what went wrong and what it took to diagnose and cure him,” Clark said.

His research led to an interesting conclusion.

As a society, Clark feels we have become used to the idea that “big medicine” – expensive medications costing billions of dollars to bring to market, complex surgery, electrodes implanted in patients – is seen as the silver bullet to better health care. It is the notion that more complicated medical procedures are required to provide people with the best possible care.

“Both doctors and patients have made an assumption that this is the best solution and that there is no other solution available,” Clark said.

What Clark feels is missing, and what he addressed in his TED Talk, is the idea of “small medicine” – less expensive, simpler and safer procedures are often as effective, if not more so, than more expensive medical cures.

“What I’m proposing is that first of all we all look at whether or not it’s appropriate to look at big medicine as the only solution. And then to give small medicine a chance, or at least to take it seriously,” he said.

Read the complete story at [news.unm.edu/2012/09/vince-clark-feature](http://news.unm.edu/2012/09/vince-clark-feature). ■



Ryan Clark



Vince Clark

## Notables

### STRAUS RECEIVES HOMENAJE FROM SPANISH SOCIETY

Leslie Spier Distinguished Professor of Anthropology Lawrence Straus was given a homenaje by the Sociedad Prehistórica de Cantabria in Santander, Spain. The homenaje is similar to a life-



Lawrence Straus

time achievement award. Straus received it for extensive excavation and research he and his Spanish colleague Professor Manuel R. González Morales conducted at El Mirón Cave in Cantabria and for more than 40 years of research on Cantabrian Spain.

This summer, Straus also gave the keynote address and presented a paper at the II Congreso del Solutrense in Almeria, Andalucia.

Straus has spent 17 years actively excavating El Mirón. Each summer since 1996 he has led a team of graduate and undergraduate students in search of information about the people who lived in or used the cave. He spent this summer in Spain doing analyses of stone and bone artifacts collected from El Mirón and consulting with human paleontologists who are analyzing the skeleton found there in 2010-11. The remains have been carbon-dated to be about 19,000 years old.

### ALEMÁN NAMED ENDOWED FACULTY CHAIR

English Professor Jesse Alemán was recently awarded the Ruth and Lillian Marino endowed faculty chair for Middlebury College's Bread Loaf Summer Graduate School of English, a summer residential graduate program of Middlebury College that provides education in British, American and world literature.



Jesse Alemán

Alemán, who has been on faculty at UNM since 1999, said, "Middlebury College's Bread Loaf Graduate School of English is a renowned program, and for the last six summers, it has provided me the opportunity to teach graduate seminars to sharp, dedicated and engaging students who strive to live up to Bread Loaf's tradition of excellence. The small, seminar-style learning suits my pedagogy perfectly, while the students, most of whom are teachers themselves pursuing advanced degrees, help to bring out the best of my classroom teaching."

A student wrote, "Dr. Jesse Alemán is fantastic... the best professor I've had in three years of Bread Loaf. He's dynamic, brilliant, caring, fun, fair and just wonderful!"

Continued from Page 1

## Homecoming

campus constituents to show their super hero Lobo spirit by participating in homecoming events. Our 'U' theme is back, 'Super U,' as your University of New Mexico shows off its super feats on the field, in the classroom and in the community," said UNM Alumni Association Program Director Sue MacEachen.

"Our super students are back in school, putting their super powers to the test in the classrooms, our fantastic faculty is challenging their limits and our super alumni continue to prove their extraordinary talents beyond the walls of UNM."

Wednesday, Oct. 3, students can vote on UNM homecoming royalty in the Student Union Building, 9 a.m.-5 p.m. Entries are due the same day for the annual campus decorating contest. Participants decorate a specially designed Superhero Shield, which can be picked up the week of Sept. 24. The registration deadline is Friday, Sept. 28. Decorated shields must be delivered to SUB ball-

rooms B and C by 10:30 a.m., where they'll be displayed. Winners will be chosen by people's choice voting during the alumni faculty and staff luncheon, also on Oct. 3.

Also that day, the UNM Alumni Association celebrates the official unveiling of the new Alumni Memorial Chapel Garden at 3:30 p.m.

On Thursday, Oct. 4, students compete in the Lobo Howl and other wacky activities in the Cherry-Silver Games at the duck pond. Contact Student Activities at (505) 277-4706.

Friday, Oct. 5, is Lobo Spirit Day. Faculty, staff and students are encouraged to wear red on campus to show off Lobo pride. A pep rally at noon in the SUB atrium helps send the Lobo teams to victory.

Events on Saturday, Oct. 6, include the all-university breakfast at 9 a.m. at the Sheraton Albuquerque Airport Hotel when the Mortar Board and Zia Awards honoring prominent alumni are given out. Reservations are required for this exclusive breakfast that will recognize Zia Award recipients including Brian Colón, John Cordova, Aileen Garcia, Edward

Gonzales, Rhonda King and Baker Morrow. The Lobo Award recipient is Rosalie Otero.

The Southwest Fiesta Tailgate starts at 1:30 p.m. in the club level of University Arena to showcase the world-famous Pit. Live entertainment, a silent auction and a Southwestern-flavored, buffet-style feast will be available for all fans. Tickets are required for the buffet.

The 19th annual live silent auction benefitting the Alumni Association opens for bidding Monday, Sept. 24. Online bidding closes Sunday, Oct. 7, at noon.

All the hoopla culminates with the big football game against Texas State. After a spirited victory to open the season, the UNM football team appears to be on the right track under the guidance of new Head Coach Bob Davie. While the competition stiffened after the season-opener, optimism is still running high for renewed enthusiasm for the Lobos going forward.

For a complete list of activities and advanced ticket sales call (505) 277-5808 or visit [unm-alumni.com/homecoming](http://unm-alumni.com/homecoming). ■

## Universities sign agreement with White Sands Missile Range

By KAREN WENTWORTH

UNM President Robert Frank is one of four university representatives who signed an agreement with the White Sands Missile Range to establish a planning forum to facilitate greater collaboration and partnerships. Other universities signing the agreement are New Mexico State, New Mexico Institute of Mining and Technology and University of Texas at El Paso.

For Frank, it's a bit of a homecoming. He lived there and attended White Sands Missile Range Junior High

School. He values the wealth of information and resources that can be shared between WSMR and the University. "This partnership provides great opportunities for our students and faculty through internships, shared research and other collaborative projects and efforts," Frank said. "We are anxious to get started working together for the benefit of all involved."

U.S. Senator Jeff Bingaman also participated in the event. "Most of the useful work that goes on around the state is a result of collaboration," Binga-

man said. "We've always had a strong military presence. That connection to higher education is important to our future."

Initially UNM is looking for possible areas of collaboration, including internships and sharing information on the needed skill sets for future graduates. The process will include a faculty visit to meet with potential collaborators. In addition UNM will begin to identify areas of collaboration with WSMR and the other institutions of higher education signing the agreement. ■

## Appointments

### KRAUSE NAMED DEAN OF HONORS COLLEGE, UNIVERSITY COLLEGE

UNM Provost and Executive Vice President for Academic Affairs Chaouki Abdallah announced the appointment of Catherine (Kate) Krause as dean of both the Honors College and University College.

"Dr. Krause distinguished herself as a faculty member and in the last year as the interim then dean of University College. She has provided steady leadership this past year, quickly establishing herself as a champion of student success," Abdallah said. "A national search for the permanent dean position will begin in the fall."

"I am honored and humbled to be given this opportunity at exactly this moment. This year UNM will launch several student-centric initiatives including the new Honors College, an intensive review of the freshman year experience and innovative interdisciplinary programs in University College," Krause said.

Krause is a professor in the Department of Economics. She earned her bachelor's degree at the University of Minnesota in 1977 and a Juris Doctorate from Stanford Law School in 1981. After practicing law for several years in St. Louis, Mo., she returned to school. She earned her doctorate in economics in 1996 at the University of Wisconsin Madison and joined the UNM faculty that year.



Kate Krause

### LEADERSHIP CHANGE AT UNM GALLUP

UNM President Robert Frank appointed Wynn Goering, special assistant to the president for Branch Affairs, interim executive director of UNM Gallup. Sylvia Andrew announced that she is leaving her position to return to teaching.

"We are grateful for the effort Dr. Andrew has given to the University of New Mexico and to the community of Gallup," Frank said. "We're going to do everything we can to improve the success of the UNM Gallup campus and its students."

The UNM Gallup directorship will be the second such post for Goering, who served as interim executive director of UNM Taos in 2000-02. He has held a variety of administrative positions at UNM main campus, most recently as vice provost for Academic Affairs, 2007-12.

"Dr. Goering knows more about UNM's branches and their relationship to the main campus than anyone else at UNM," Frank said. "We're counting on him to ensure the continued well-being of UNM Gallup."

## Iriart brings focus to Latino health issues

By VANESSA BACA

Celia Iriart has brought the plight of Latino groups and related health issues into sharp focus. One of her recent projects looks at the nutritional double burden affecting Latino children. Her team analyzed chronic malnutrition in overweight Latino children and how it tied in with their socioeconomic and demographic conditions.

"It was moving to observe so many children affected by obesity, and also chronic malnutrition," Iriart said. Her research underlines the connection between social determinants and health and the importance of addressing not just the amount of calories consumed, but also the quality of nourishment and its contribution to overall health.

An internationally recognized scholar and senior fellow with the Robert Wood Johnson Foundation Center for Health Policy, Iriart is an associate professor, Department of Family and Community Medicine. Her work with Latino communities is the driving force behind her career, and as a Latina faculty member, her participation in culturally

and ethnically diverse groups allows her to mentor fellow faculty and graduate and doctoral students. Prior to UNM, she taught and developed courses geared toward educating individuals and groups within academia and health care services.

Originally from Argentina, she earned her undergraduate and graduate degrees there before obtaining her doctorate in collective health at the University of Campinas in Brazil. She came to UNM as a visiting scholar in 1997.

An acknowledged expert in health policy analysis, Iriart brings a wealth of experience and knowledge on health sector reform to her students and colleagues. Her ongoing research in public health supplements her earlier studies, many of which have been utilized by governmental agencies, medical associations and advocacy groups.

"I'm proud to be associated with UNM and its work addressing health policy," Iriart said. "If I can play a role in that dialogue and have an effect, I consider my own work well-done." ■

## Events Calendar

Events subject to change, call to verify. For a comprehensive list of events updated daily, visit UNM's online calendar, [news.unm.edu](http://news.unm.edu). Most events are free. For events requiring tickets, most may be purchased at UNM ticket offices, (505) 925-5858 or [unmtickets.com](http://unmtickets.com).

### ■ Wednesday, Sept. 19, 26 and Oct. 3

The Sustainability Studies Program hosts Lobo Growers' Markets on Wednesdays this fall, offering fresh produce, products and prepared foods by local, sustainable growers and producers. Cornell Mall, 10 a.m.-2 p.m., [abqstew.wordpress.com](http://abqstew.wordpress.com)

### ■ Tuesday, Oct. 2-Oct. 28

Popejoy presents Disney's "The Lion King," a Tony Award-winning spectacle of animals brought to life by award-winning director Julie Taymor. Tickets are available at UNM ticket offices. Popejoy Hall, Tuesday-Thursday at 7:30 p.m., Friday and Saturday at 8 p.m., and Sunday at 6:30 p.m., [popejoypresents.com](http://popejoypresents.com).

### ■ Saturday, Oct. 6

Join alumni and Lobo fans for UNM Southwest Fiesta Tailgate at the club level in the Pit. All are welcome. The tailgate features live entertainment, special guests and more. Traditional southwest fare can be purchased for \$15 per adult or \$5 per child 12 and under. Tickets are available at [unmalumni.com/homecoming](http://unmalumni.com/homecoming). 1:30 p.m.

See the UNM Lobos v. Texas State in the traditional Homecoming football game. Half-time festivities include the coronation of the homecoming queen and king. Discount tickets are available at \$10 each. Call the UNM Alumni Relations office, (505) 277-5808 or (800) 258-6866 or order online at [unmalumni.com/homecoming](http://unmalumni.com/homecoming). University Stadium, 4 p.m.

### ■ Sunday, Oct. 21

At Tamarind Institute's Biennial Win/Win Lottery, ticket holders choose a work in the order of a random number received upon entry. Only 100 tickets will be sold on a first-come, first-served basis! A Win/Win ticket is \$200; reception only is \$50. Richard Levy Gallery, 5-7:30 p.m., (505) 277-3901, [tamarind.unm.edu/WinWin](http://tamarind.unm.edu/WinWin).



## The Arts Column



Hakim Bellamy. PHOTO BY WES NAMAN

### UNM student named first Albuquerque poet laureate

BY SARI KROSINSKY

In his inaugural speech during National Poetry Month, UNM graduate student Hakim Bellamy said that in the context of "a history of marginalizing" poets of color like Langston Hughes as "great American 'black' writers, rather than just great American writers," he is "deeply honored to be able to tell my grandchildren that I wasn't just the first black poet laureate of Albuquerque. I was the first poet laureate of Albuquerque."

Bellamy transcends boundaries every day as a poet, scholar, musical artist, actor, community organizer and journalist. Breaking poetry out of conventional spaces is central to his plans as Albuquerque poet laureate. "I feel like my duty is to try to make poetry matter to populations it doesn't already matter to," he said. "It certainly is the most easily accessible, populist form of art... With poetry you can just do it, you can do it with nothing, and I feel like that's what makes it really the people's art form."

Bellamy moved to New Mexico from the east coast in 2005 and started at UNM that spring. The "critical lens" he has been exposed to as a master's candidate in UNM's Department of Communication and Journalism shifted Bellamy's perceptions. "My first year in this program, I think my paradigm on life changed a lot. That's also when I started doing poetry seriously, too, so there were a lot of changes," he said.

He applies that critical lens to the poetry slam community in his thesis on how identity is created through language, focusing on how the "space of the poetry slam creates identity for all the actors involved: the poets, the audience members." Ilija Rodriguez, associate professor in the Department of Communication and Journalism, is Bellamy's thesis director.

The research is based on his observations as a participant, focus groups and interviews with poets. As a long-time member of the community, Bellamy thought he knew what he would find, but what he learned expanded his perspective. "The more you talk to people who have different experiences and different positions in it, you end up finding out more than you thought and considering the community differently," he said.

## Exhibitions

### University Art Museum • 277-4001

"Dancing with the Dark: Joan Snyder Prints 1963-2010" is the first exhibition about Joan Snyder's adventurous approach to printmaking, a medium in which she has worked extensively for more than 45 years. She is recognized as one of the pioneering voices that championed feminism. Through Dec. 15.

"The Transformative Surface" is the first group exhibition of its kind at the UNM Art Museum to feature innovative new media, video and sound works of art by nine faculty artists from the Department of Art and Art History and the Interdisciplinary Film and Digital Media Program and six guest artists from San Francisco and Santa Fe. The exhibition is part of the International Symposium on Electronic Art 2012: Machine Wilderness. Through Dec. 15.

Open Tuesday-Friday, 10 a.m.-4 p.m. and Saturday-Sunday, 1-4 p.m.

### Maxwell Museum of Anthropology • 277-4405

"Ancestors" displays 4 million years of human origins, including distant ancestors like Lucy, Neanderthal and Homo Habilis, featured in a reconstructed cave setting, complete with Ice Age drawings and sculptures. Permanent exhibit.

"The American Image: The Photographs of John Collier, Jr." An online exhibit exploring John Collier's work during the war years of the 1940s. [americanimage.unm.edu](http://americanimage.unm.edu).

"People of the Southwest." This exhibit explores 11,000 years of the cultural heritage of the Southwest and highlights major excavations and the archaeologists who directed them. Permanent exhibit.

"Instruments from Around the World." An online exhibit at [unm.edu/~maxwell/exhibits/instruments](http://unm.edu/~maxwell/exhibits/instruments).

Open Tuesday-Saturday, 10 a.m.-4 p.m.

### Geology Museum • 277-4204

Two exhibits focus on world-renowned geologic features in New Mexico – the Jemez caldera and the Harding pegmatite mine, and another includes a large dinosaur bone available for close inspection.

Northrop Hall, room 124. Open Monday-Friday, 8 a.m.-4:30 p.m. Closed noon-1 p.m.

### Harwood Museum of Art, Taos • (575) 758-9826

"Bea Mandelman: Collage" and "Bea Mandelman: The Social Realist Prints" are exhibitions of Taos Modernist Bea Mandelman in conjunction with the centennial of her birth. The exhibitions are official events of the New Mexico Centennial. Through Oct. 14.

"Suspension of Disbelief: The Fantasy Worlds of Stella Snead, Barbara Harmon, Frieda Lawrence, Gisella Loeffler, Ila McAfee and Millicent Rogers" presents the work of six female artists who lived in Taos, N.M., and created works inspired by fantasy and the aesthetic legacy of Art Nouveau and the Symbolists. Through Oct. 14.

Open Monday-Saturday, 10 a.m.-5 p.m. and Sunday, noon-5 p.m.

### Tamarind Institute • 277-3901

"Notes on the Tower" features Nicola López's lithographs recently produced at Tamarind, mixed-media prints, drawings and a multi-media installation including animations. Tamarind hosts an open house in conjunction with ISEA2012: Machine Wilderness on Saturday, Sept. 22, 4:30-7:30 p.m. Through Dec. 22.

Open Monday-Friday, 9 a.m.-5 p.m.



## UNM – State, National &amp; International

Guest column: *Health care for all in Cuba*

BY TERRY CROWE, PROFESSOR, PEDIATRICS OCCUPATIONAL THERAPY

The first week of July I had the opportunity to spend eight days in Cuba. The U.S. recently opened up travel to Cuba with restricted visas. I went with 10 other UNM faculty and staff to explore the possibility of creating courses for our students in Cuba. My interest is in developing a course focusing on integrative medicine, how Cuba integrates complementary and alternative medicine into their health care, and traditional medicine, the Santeria religion facilitating healing. After receiving official approval through the Cuban Ministry of Public Health, two colleagues and I observed at three clinics or hospitals.

The U.S. is struggling with how we will provide health care for all of our citizens. Cuba has established a government-run health care system that is significantly less costly, 7.3 percent of gross domestic product in Cuba as opposed to 16 percent in the U.S., with similar health outcomes. Infant mortality, average from 2008-10, is 6.95/1,000 live

births in Cuba while in the U.S. it's 7.07. Life expectancy is 77.9 years in Cuba and 78.5 in the U.S.

The Cuban health care system is based on six health care principles: 1) Health care is a basic right, 2) health care is free including dental care, 3) health care is accessible to all, 4) government is responsible for health, 5) primary care is the foundation, and 6) health care requires community involvement. They have set up a multilayer system which includes: 1) neighborhood consultorios/clinics that serve 1,500-2,000 people, 2) polyclinics that serve as outpatient, small health clinics, 3) municipal and regional hospitals, and 4) specialty hospitals such as rehabilitation or cardiovascular.

I was particularly impressed with the primary level of health care, which provides a clinic with a family physician and nurse in each neighborhood across the country. The professionals live and work in a house with the clinic on the first floor. Mornings are spent seeing neighbors in the clinic

and afternoons conducting home visits with the emphasis on health promotion and disease prevention.

A strong public health philosophy guides the model with a commitment to equality in social services such as education, nutrition and housing, addressing how these factors impact health. At the polyclinic we observed primary care, urgent care, occupational therapy, physical therapy and natural health providers giving complementary and alternative medicine such as acupuncture. We spent a morning at a natural medicine outpatient facility where health care workers were seen mostly providing Chinese medicine. This was a busy facility with many people waiting to receive treatment.

We also visited the national Rehabilitation Hospital in Havana, which has an impressive inpatient program including occupational therapy. Clients and at least one caregiver live at the hospital for one to six months to receive intensive services. All of the health care providers we observed seemed



UNM Professor Burke Gurney, Department of Orthopedics Physical Therapy Program, and Dr. Asuncion Tosar Perez, director of the Centro de Desarrollo de Medicina Tradicional y Natural, discuss treatments employed in Cuba.

PHOTO BY TERRY CROWE

committed to their job, proud of their programs, open to questions and passionate about keeping their clients healthy.

While the general health care provided is impressive, especially in contrast to the inequitable care we provide, everything is not rosy in Cuba. Health care providers receive an unbelievably low salary, reportedly \$20 per month across disciplines, facilities have limited resources, some

facilities are in poor condition and there is limited client privacy or informed consent. The Rehabilitation Hospital had no air conditioning and none of the impressively built therapy pools had water. At the natural medicine outpatient facility the treatment rooms were crowded and hot.

Cuban health care is multi-dimensional, both good and bad. I think we can learn from Cuba about national health priorities. ■



The UNM group visits the Cuban Fine Arts Museum. They stand on a bridge representing the distance between Miami, Fla., and Habana, Cuba.

## UNM-Valencia receives high marks from students

UNM-Valencia received high marks from its students in a national community college survey, and the campus also was ranked by a national organization.

UNM-Valencia exceeded national benchmarks in all areas in the Community College

Survey of Student Engagement. CCSEE is administered by the Community College Leadership Program at the University of Texas at Austin. Students rate the campus and instructors. UNM-Valencia students were randomly selected to rate the campus on five benchmarks:

active and collaborative learning, student effort, academic challenge, student-faculty interaction, and support for learners.

The campus was compared to more than 700 community colleges throughout the United States.

UNM-Valencia also ranked 12th in the nation among community colleges for awarding certificates or degrees in the physical sciences to Latinos for the 2009-10 academic year by Excelencia in Education. Excelencia in Education accelerates higher education success for Latino students by providing data-driven analysis of the educational status of Latinos and promoting education policies and institutional practices that support their academic achievement.

UNM-Valencia is the only two-year school in New Mexico to receive national recognition from Excelencia in Education. ■

## Designing a revolution

“Unfinished Spaces” airs Wednesday, Sept. 19, at 7 p.m. at the Guild Theatre. The film features intimate footage of Fidel Castro, showing his devotion to creating a worldwide showcase for art, and documents the struggle and passion of three revolutionary artists. Tickets are \$7.

In 1961, Castro said, “Cuba will count as having the most beautiful academy of arts in the world.”

That year, Castro and Che Guevara commissioned three young, visionary architects

to create Cuba's National Art Schools on the grounds of a former golf course in Havana, Cuba. Construction of their radical designs began immediately and the school's first classes soon followed.

Dancers, musicians and artists from all over the country reveled in the beauty of the schools, but as the dream of the Revolution quickly became a reality, construction was abruptly halted and the architects and their designs

were deemed irrelevant in the prevailing political climate. Forty years later the schools are in use, but remain unfinished and decaying. Castro has invited the exiled architects back to finish their unrealized dream.

Cuba's ambitious National Art Schools project, designed in the wake of Castro's Revolution, is neglected, nearly forgotten, but ultimately rediscovered as a visionary architectural masterpiece. ■

## File-Muriel receives Fulbright to Colombia

BY CAROLYN GONZALES

Richard File-Muriel, assistant professor, Department of Spanish and Portuguese at UNM, was awarded a Fulbright Scholar grant to lecture and carry out research in linguistics at the Universidad Nacional de Colombia and Instituto Caro y Cuervo in Bogotá, Colombia, during the 2012-13 academic year, the United States Department of State and the J. William Fulbright Foreign Scholarship Board announced recently.

File-Muriel's research deals with the role of language usage in emerging linguistic structure. As part of this research,



Richard File-Muriel

he will work on the creation of an oral corpus of the Spanish spoken in Bogotá. ■



UNM Today is published for University of New Mexico employees by the University Communication & Marketing Department monthly, except July.

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