September 4, 2009

INSIDE INSIGHT

Your final answer?
Academic Bowl returns for fourth year.

Two-for-one
Professor plays two baritones at once.

‘In Print’
A highlight of ASU employees’ books.

Portraits in Peru
Through the lens of disposable cameras, Jamie Patrice Joanou had hoped to capture snapshots of the lives of children living on the streets of Lima, Peru. Instead, her study revealed the humbling effects of photography through self-portraits of homeless boys who simply wanted to create memories of their lives. "Jamie’s work contributes to the growing use of photovoice in work with young people, including those in challenging circumstances," says Elizabeth Swidener, a professor of education policy, leadership and curriculum with the Fulton Institute and Graduate School of Education. "Such work honors the perspectives and experiences of children and youth and provides a powerful vehicle for not only creative self-expression, but for sharing stories and creating spaces of possibility."

Visit the ASU News site to read the full story. http://asunews.asu.edu/20090826_studentmontage.

A related story about a photography youth project can be found on page 7 of this edition of Insight.

Student success
José Ramirez has a plan. One day, he and his father will run their own small business, specializing in tile and granite installations. The plan is closer than ever, he says, thanks to his degree work at Arizona State University and a recent scholarship award from the Adelante U.S. Education Leadership Fund. Ramirez, a first-generation college student hoping to set an example for his three younger siblings, says he embraces the diversity of the ASU community, which he credits for helping him become a better student and laying the groundwork for his professional life.

Ramirez graduated with honors from Phoenix Alhambra High School and was able to attend ASU on the strength of a Provost’s scholarship, as well as an Alhambra Foundation for the Future scholar gift.

Visit the ASU News site to read the full story. http://asunews.asu.edu/20090826 Ramirez.

Governor honors ASU for economic innovation

By Joe Caspermeyer

ASU's Biodisgn Institute shares in award for economic development, innovation in Arizona

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Governor Jan Brewer awarded a top award for economic development to the Translational Genomics Research Institute (TGen) and the Biodisgn Institute at Arizona State University.

TGen and ASU’s Partnership for Personalized Medicine won the 2009 Excellence in Economic Development award in the category of Innovative Economic Development. This was the first award presented by Gov. Brewer at the 2009 Governor’s Regional and Rural Development Conference that took place Aug. 26-28 at the Wigwam Resort in Litchfield Park.

The focus of the conference, presented by the Arizona Department of Commerce and the Arizona Association for Economic Development, was preparing Arizona for economic recovery. The purpose of the awards is to honor partnerships, organizations, associations, service clubs and companies that have successfully created and supported community and economic development strategies in the past year.

The Partnership for Personalized Medicine is a collaboration between TGen, ASU’s Biodisgn Institute and Seattle’s Fred Hutchinson Cancer Research Center. The venture with the Government of Luxembourg will speed new personalized health care treatments to patients, reduce costs, create a European clinical research center, and bring national and international investment to Arizona.

An alliance between Phoenix-based nonprofit TGen, ASU’s Biodisgn Institute and the Grand Duchy of Luxembourg was announced in June 2008.

See BIODISGN on page 7.

Sun Devil Kickoff

Arizona State opens its 97th season of football when the Sun Devils play the Idaho State Bengals at Frank Kush Field/Sun Devil Stadium Saturday night.

This will be the first ever meeting between Arizona State and Idaho State. Coach Dennis Erickson is 3-2 all-time in his career against Idaho State.

ASU features 46 returners from last season’s team, including seven starters on offense and six on defense.

Arizona State is 67-27-2 (.708) all-time in season openers, including victories in the last six. The Sun Devils have won nine of their last 10 season openers. ASU holds an all-time record of 47-15-1 (.754) when opening the season at home.

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Including last season’s 30-10 win over Northern Arizona University, ASU has won 12 of its past 13 home openers and 10 straight.

Tickets can be purchased by calling the Sun Devil athletic ticket office at (480) 727-0000 or visiting the Web site www.thesundevils.com.

See MAGAZINE on page 7.

ASU, Pima Community College join forces to increase college access

By Marshall Terrill

Arizona State University and Pima Community College are teaming up to increase the number of students who complete a community college degree and attend and graduate from ASU.

The goal is to significantly increase the number of students transferring from ASU’s Pima Community College (PCC), and to increase their success at the university.

Recognizing that academic preparation is the single most important determinant of transfer student success, the two institutions will establish the Transfer Admission Guarantee (TAG) program. TAG is an articulated degree-to-degree transfer program that will provide guaranteed admission into an ASU undergraduate degree program for PCC students who complete the requirements of a specific TAG. Under the program, students will complete their associate’s degree at the community college and their bachelor’s degree at the university.

Roy Flores, PCC’s chancellor, and ASU President Michael Crow will participate in a signing ceremony for the TAG program at 12:15 p.m., Sept. 4, at the Pima Community College District Office in Tucson.

“Linkages between the community college and the university are essential to the future of our educational enterprise in Arizona,” Crow says. “Pima Community College and ASU have enhanced our relationship through this new program and thus we are enhancing opportunities for student success.”

PCC and ASU have a strong history of developing collaborations and partnerships to support transfer student success.

See PIMA on page 7.

Professor lauded as one of world’s leading innovators

By Joe Kullman

Achieving advances in battery technologies that could make them more reliable and efficiently power electronic devices, electric cars and renewables-energy systems has earned Cody Friesen, an Arizona State University faculty member, a place on a prominent list of the world’s top young innovators of 2009.

Friesen, an associate professor in the School of Mechanical, Aerospace, Space, Chemical and Materials Engineering in ASU’s Ira A. Fulton Schools of Engineering, has been named among the “TR35” by Technology Review magazine, one of the leading technology news publications.

He is one of just 35 people – all under the age of 35 – chosen from more than 300 nominees around the world for the award recognizing scientists, engineers, technologists and entrepreneurs who “exemplify the spirit of innovation.”

Editors of the magazine, published by the Massachusetts Institute of Technology (MIT), were impressed with Friesen’s work on a method that addressed a long-time problem of how to recharge zinc-air batteries.

This type of battery – using zinc metal for an anode and an alkaline paste for an electrolyte – had proven to be simple, non-toxic, inexpensive to produce and durable, though not rechargeable.

(See MAGAZINE on page 7)

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Cody Friesen

(See MAGAZINE on page 7)
In order to prepare for the return of the H1N1 (swine) flu this fall, the ASU Health Advisory Committee is asking for volunteers to help perform basic triage for those who become sick. The goal is to have up to 200 volunteers ready to assist students should a flu pandemic return.

“We want to build up a ‘medical reserve corps,’” says Allan Maclean, the head of the ASU Campus Health Services. “We want to get faculty and staff volunteers trained to care for sick students, especially those students who cannot go home in case of a flu pandemic.”

The volunteers would be trained and provided with equipment to do basic triage of persons with flu-like symptoms, such as taking a person’s temperature, blood pressure, record basic histories of current conditions, and communicate with physicians on patients’ status.

“If a pandemic breaks out, we anticipate that hospitals, doc- tor’s offices and the Student Health Center are going to be over-whelmed, and these students need basic care and monitoring to help them through,” Markus says.

“We hope to train 50 to 60 people at a time during the semes- ter to help our colleagues,” says the Student Health Center’s director of public affairs. “We want to give our nurses and medical assistants training on how to communicate with physicians. The volunteer would use such a checklist and if the patient goes over a certain score, physicians would take over care at that point.”

If you are interested in volunteering for the ASU medical reserve, call Ramona Robles at (480) 965-1145, or e-mail ramona.robles@asu.edu.

New location emphasizes Writing Center’s myriad services

ASU’s Writing Center has expanded its visibility by relocating to a new office at the Downtown Phoenix campus (DPC).

Last year the center was operating within the DPC’s Student Success Center, but now has a new location in suite 364 of the Univer- sity Center. Under the umbrella of the Uni- versity Center, it is now easier to access all ASU’s campuses that have established Writing Centers.

“We want students to come in at as dif- ferent places as possible,” says Lisa Cahill, the assistant director of the DPC’s Student Success Center.

“We also want students, faculty and staff to see us as a resource for this campus, and hopefully our new location means that we’ll increase our visibility.”

An open house is set for students and faculty from 10 a.m. to 2 p.m., Sept. 9, at University Center, 411 N. Central Ave., room 164. Light refreshments will be provided. A Brown Bag Forum led by DPC faculty discussing how imagination and creativity influence academic research and writing will follow the next day from 11:30 a.m. to 1 p.m., Sept. 10, at the same location.

The center’s professional staff provides one-on-one sessions to help students understand assignments, explore, play and discover ideas, draft, and revise their work.

In addition to supporting students, the Writing Center also collaborates with faculty to support writing and research in the class- room.

“Most people think of writing centers as a place where they get their papers proofread or edited, but we’re available to students at all stages of writing,” says Angela Clark-Oates, a staff writer who is responsible for coordinating the DPC Writing Center. “We encourage students to come in at the start of the process so they can further develop their writing habits.”

Those habits include discussion of possible topics, generating ideas for an outline, analyzing the effectiveness of a thesis statement, and learning about different introductions to support writing and conclusions, exploring vocabulary, word use, identification of main ideas, and organizing material.

The center also teaches various styles of writ- ing, including Modern Language Association (MLA), American Psychological Association, and Journal of the American Dietetic Association and Associated Press.

For more information on the ASU Down- town Writing Center, call (602) 496-0354 or visit the Web site at http://studentsuccess.asu.edu/home/writingcenters.
Two Pulitzer Prize-winning journalists, a National Public Radio correspondent, three TV anchors, editors, the former executive editor of the Washington Post and Maricopa County Sheriff Joe Arpaio will headline a Monday-night speakers series this fall at the Walter Cronkite School of Journalism and Mass Communication.

The fall speakers series will take place at 7 p.m., each Monday, in the First Amendment Forum of the Cronkite building on the Downtown Phoenix campus of Arizona State University.

The school also announced its movie schedule for Cronkite Night at the Movies, which features journalism-themed films in the forum starting at 7 p.m. on Wednesdays. The events are free and open to the public. Leonard Downie Jr., former executive editor of the Washington Post, will kick off the speakers series Sept. 14 with a discussion on investigative reporting and the role of accountability journalism in today’s media world.

Downie, who led his newspaper to more Pulitzer Prizes than any editor in history, has joined the faculty of the Cronkite School as the Weil Family Professor of Journalism.

The fall speakers series will wrap up Nov. 30 with a “Meet the Press”-style interview of Arpaio. That session will focus on the sheriff’s relationship with the Valley and national media news. He will be interviewed by three Cronkite faculty members.

The full Fall Must See Monday lineup includes:

**Series to feature Pulitzer winners, news anchors, Sherrif Arpaio**

- Sept. 21: Katie Ramil and Steve Irvin, ABC 15 evening news anchors.
- Sept. 28: Julie Carl, Pulitzer Prize-winning reporter, Los Angeles Times.
- Oct. 5: Kathleen Bode, Fox 5 anchor, San Diego.
- Oct. 19: Dana B. Henriquez, Pulitzer Prize-winning reporter, the New York Times and Andrew Leckey, Donald W. Reynolds Chair in Business Journalism, on covering financial scandals.
- Oct. 26: A panel discussion on social media featuring Judy Brannum, national director of the Carnegie-Knight News21 Journalism Initiative; Retha Hill, director of the New Media Institute at Arizona State University; Mark Gillmor, director of the Knight Center for Digital Media Entrepreneurship; and Dawn Gilpin, assistant professor.
- Nov. 2: Mei-Ling Hopgood, journalist and author of the memoir “Lucky Girl.”
- Nov. 9: Susan Fenney, senior editor, National Public Radio “All Things Considered.”
- Nov. 16: Jason Manning, managing editor, Carnegie-Knight News21 Journalism Initiative, with News21 students, on digital news innovation.
- Nov. 23: Aaron Brown, Cronkite Professor of Journalism, host of PBS “Wide Angle” and former CNN anchor, on international reporting.
- Nov. 30: Maricopa County Sheriff Joe Arpaio on his relationship with the news media, interviewed by Rick Rodriguez, Carnegie Professor of Journalism and former Sacramento Bee executive editor; Susan Green, broadcast director of Cronkite News Service and former ABC 15 managing editor; and Steve Elliott, digital news director of Cronkite News Service and former AP Phoenix bureau chief.

The Cronkite Night at the Movies schedule is:
- Sept. 16: “All the President’s Men,” introduced by Leonard Downie Jr., former executive editor of the Washington Post and Weil Family Professor of Journalism.
- Nov. 4: “Live from Baghdad” with Kristin Gilger, assistant dean.
- Nov. 18: “Good Night, and Good Luck” with John Craft, professor and Marquette and Jack Clifford Gallery curator.
- Dec. 2: “Anchorman: The Legend of Ron Burgundy” with Sue Green, Cronkite News Service’s broadcast director.

Jupiter’s moon Europa is a forbidding world, yet NASA intends to devote billions of dollars over the next decade to getting there because beneath its icy surface lies a warm global sea that comes with the intriguing possibility of extraterrestrial life. “We don’t know yet how thick the ice is, but I think the surface tells us that there might be interesting biology there,” says Ross B erson, ASU planetary geologist. *Diabetes*, Aug. 28.

After a record-breaking decline in the Valley’s median home price, local real estate analysts predict that home values finally have hit the bottoms of the slide. Finance professor Karl Gaertner says that the median price has held steady long enough to cautiously predict a coming period of relative price stability. “Clearly the rate of decline has bottomed out and prices appear to be moving in the right direction,” he says. *Arizona Republic*, Aug. 20.

ASU experts frequently are called upon by the local and national news media to provide insight and opinion on current events and issues of public interest. Following are excerpts of recent news articles featuring ASU representatives.

An ongoing investigation into the nation’s biggest crackdown on dealers of black-market Native American artifacts includes dozens of sacred objects suspected of being looted from Indian ruins in Arizona. Rebecca Tossie, the executive director at ASU’s Indian Legal Project, says lawsuits do tremendous scientific damage that also is devastating to Native American tribes. She says ruins that have been excavated quickly, often in the dark of night without expertise, lose virtually all their archaeological value. *Arizona Republic*, Aug. 27.

A coalition of organizations have established the Amphibian Survival Alliance to conserve species threatened by deadly fungus, habitat loss, pollution, pesticides and climate change. “The world’s amphibians are facing an uphill battle for survival,” says James Collins, a life sciences professor and co-chairman of the group. Collins says the new alliance will focus efforts on the biggest threat to amphibians: infectious disease and habitat destruction. *CNN*, Aug. 27.

A small C&I bond farm that once found unlikely success growing shrimp in the desert is working on another unusual business venture — turning farm waste into electricity and growing algae for fuel. Being able to sell the biodiesel and eventually the dried algae left over when it is pressed for oil could bring down the cost of algae fuel, business professor Mark Edwards says. “As much as 80 percent of revenue could come from other products,” Edwards says. *Arizona Republic*, Aug. 27.

Student journalists turn to the Web, multimedia to tell their stories Arizona State University students are part of a national experiment showcasing how journalism can be done in innovative and in-depth ways on the Web.

Ten students in the Walter Cronkite School of Journalism and Mass Communication produced a series of multimedia reporting projects on “Latinos America” that are featured on a national Web site for the Carnegie-Knight News21 Journalism Initiative. The project’s focus is to give news organizations around the country via McClatchy-Tribune News Service and Gannett Digital.

The projects look at the social, economic, cultural and political impact of the surging Latino population in the United States, and are presented in innovative ways, including a video player that allows the user to access text and graphics without exiting the video; a “carnival” tool that allows viewers to scroll forward and back through a project, interacting with the story via video and text; and Twitter widgets on each page of a story calibrated to bring in discussion on specific topics.

The students also experimented with how to weave multimedia into traditional news stories, and how to present information in a non-linear format.

The students traveled throughout Mexico, Arizona and Canada, as well as six to seven other states to report their stories this summer, says Jason Manning, the student media director at ASU who ran the Cronkite News21 newsletter this summer.

“The experience was intense and incredibly demanding, but the team unanimously agreed that the result was well worth the effort,” Manning says. “With the state the news profession is in, this experience is not one that our students will likely be able to repeat any time soon in professional newsrooms. News21 offers a truly unique experience not available anywhere else.”

To view the various projects created and produced by Cronkite students, visit the Web site http://asu.news21.com.
Events are free, unless otherwise noted. Items in italics are the names of exhibits open at the time of publication and on the first of each month only. Building abbreviations are listed according to the official ASU phone directory. Send information to Judith Smith at jas@asu.edu or fax (480) 965-2159. For information about ASU events, visit the Web at http://events.asu.edu.

**Meetings**

**Thursday, Sept. 10**


**Monday, Sept. 14**

University Senate, 3:5 p.m., Education Lecture Hall (EDC) room 110. Information: (480) 965-2222.

**Thursday, Sept. 17**

Town Hall Meeting, 2:30-3:30 p.m., Memorial Union (MU). Derek Fuentes, chief of the Office of Human Resources, discusses university operations. Sponsored by University Staff Council. Information: usc.asu.edu.

**Friday, Sept. 4**

*“Reprogramming: A Career in STEM and Stem Cells,*” 2-3 p.m., Life Sciences Center (LS) E-104. Barbara Kowless, principal investigator, Institute of Medical Biology, Agency for Science, Technology, and Research (A*STAR), Singapore, presents the inaugural School of Life Sciences Distinguished Alumni Lecture. Information: Barbara.hoffman@asu.edu.

**Tuesday, Sept. 8**


**Lectures**

**Friday, Sept. 4**

*“Reprogramming: A Career in STEM and Stem Cells,”* 2-3 p.m., Life Sciences Center (LS) E-104. Barbara Kowless, principal investigator, Institute of Medical Biology, Agency for Science, Technology, and Research (A*STAR), Singapore, presents the inaugural School of Life Sciences Distinguished Alumni Lecture. Information: Barbara.hoffman@asu.edu.

**Recent Advanced in Hybrid Propulsion,” 2:30-3:30 p.m., Schwob Life Sciences Office Building (SCOB) room 252. Speaker: Brian Cantwell, Stanford University. Sponsored by the School of Mechanical, Aerospace, Chemical and Materials Engineering (MACME). Information: (480) 727-0476.

**Tuesday, Sept. 8**

The Architecture of Alvar Aalto,” 6 p.m., College of Design North (CDN) room 60. Speaker: Wolfgang Presler, professor emeritus of architecture, University of Cincinnati. Sponsored by Emeritus College. Information: (480) 965-0002.

**Wednesday, Sept. 9**

*“Predicting the Environmental Impact of Freeway Noise,”* 4:40-5:30 p.m., Global Institute of Sustainability (GLOS) room 481. Speaker: Nicholas Ovenden, Department of Mathematics, University College London, UK. The Ecoshape Engineering Seminar series is jointly sponsored by the ASU Center for Environmental Fluid Dynamics and the Global Institute of Sustainability. Information: Jennifer McCullery@asu.edu or http://efdl.asu.edu/events/seminar/ecosystem.

**Thursday, Sept. 10**


**Friday, Sept. 11**

Life Sciences Lecture, 2-3 p.m., Life Sciences Center (LS) E-104. Speaker: Taben M Hale, assistant professor, Department of Basic Medical Sciences, The University of Arizona College of Medicine—Phoenix in partnership with Arizona State University. Sponsored by School of Life Sciences. Information: barb.hoffman@asu.edu.

*Novel On-Chip Isochotophoresis Methods and Devices,* 2:30-3:30 p.m., Schwob Classroom Office Building (SCOB) room 252. Speaker: Juan Santiago, Stanford University. Sponsored by the School of Mechanical, Aerospace, Chemical and Materials Engineering (MACME). Information: (480) 727-0476.

*Sunlight-Driven Hydrogen Formation By Membrane-Supported Photoelectrochemical Water Splitting,* 3-3:30 p.m., Bateman Physical Sciences Center E-115. Nathan Lewis, Department of Chemistry & Chemical Engineering, California Institute of Technology, delivers the Department of Chemistry & Biochemistry Eyring Technical Presentation. Information: http://chemistry.asu.edu/seminar/seminar.asp.

**Monday, Sept. 14**


**Tuesday, Sept. 15**

*“Wind Energy in Arizona,”* noon-1 p.m., Armstrong Hall (LAW) room 114. Speaker: Steven Lockard, president and CEO of TVC Composites, Inc. Sponsored by the Center for the Study of Law, Science, and Technology. Information: Sandy Askland, (480) 965-2465 or sandy.askland@asu.edu.


**Wednesday, Sept. 16**


*“All the President’s Men,*” 7 p.m., The First Amendment Forum, Walter Cronkite School of Journalism and Mass Communication, 555 N. Central Ave., Phoenix. Part of Cronkite Night at the Movies. Information: http://cronkite.asu.edu/.

**Thursday, Sept. 17**


**Saturday, Sept. 5**

Tailgate Buffet, 5-7:30 p.m., University Club, prior to ASU vs. Idaho State game. Cost: $15. R.S.V.P.: (480) 965-0701.

**Tuesday, Sept. 8**


**Wednesday, Sept. 9**


**Thursday, Sept. 10**


Succeeding at Career Fiesta, 2:30-3:30 p.m., SSV room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

**Saturday, Sept. 13**


**Monday, Sept. 14**

Resume Writing I: Identifying and Building Your Professional Skills, 8-9 p.m., SSV room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

**Tuesday, Sept. 15**


Succeeding at Career Fiesta, 3:30-4:30 p.m., SSV room 329. Sponsored by ASU Career Services. Information: (480) 965-2350.

**Wednesday, Sept. 16**

Q & A with author and poet Stephen Dobyns, 1-2 p.m., Piper Writers House. Sponsored by Piper Center for Creative Writing. Information: (480) 965-6101 or writing.asu.edu.

*Beyond Your Major: Understanding Personality and Career Choices,* 1-3:30 p.m., SSV room 329. Recommended for juniors and seniors and includes the Myers-Briggs Type Indicator. Sponsored by ASU Career Services. Information: (480) 965-2350.

**Thursday, Sept. 17**

STAR in the Employment Interviews, 1-3:30 p.m., SSV room 329. Sponsored by ASU Career Services.
Robert Spring, a professor of clarinet, is not only light years beyond the beginning stages, but now he has taken to the B-flat clarinet made with PVC pipe that has three extensions at once, and two trumpets (which didn’t sound right). Spring says he originally was scheduled to perform a new work written by one performer.

Events and Performances

Exhibitions

ASU Art Museum, Nelson Fine Arts Center—Regular hours: 11 a.m.-9 p.m., Tuesday; 11 a.m.-5 p.m., Wednesday-Saturday; 1-5 p.m., Sunday. Summer hours: 10 a.m.-5 p.m., Tuesday-Saturday. Information: (480) 965-2787.

Opens Sept. 19, “Defining Sustainability: From the ASU Art Museum Collection” will consider precedents, like the 19th century Hudson river school painters who painted classic American landscapes with encroaching signs of industrialization, as well as selec-
tions of work by contemporary artists like Matthew Moore, who created compelling land art on his family’s farm in the middle of the suburbs in West Phoenix, and Eddie Dominguez, who uses ceramics to explore human history and impact on the earth.

Opens Sept. 19, “I’m Keeping An Eye on You.” Through personal, established relationships, cultural encounters, forced institutional interactions, or contact from a safe distance, we often overstep our boundar-
ies. Whether we are conscious or not of our boundary breaking, we all are guilty at one time or another, of intruding into other people’s lives and space. What may pass as uneventful for one individual may be the cause of great anxiety and fear for another. ‘I’m Keeping an Eye on You’ explores the causes and lasting effects of our curiosity and intrusions upon others.

Through Sept. 19, “Figuring Prominently: The ASU Art Museum Collection” presents major works, from the ASU Art Museum’s collection, which explore the human figure in a range of media from painting and paper-mâché to discarded materials and electronics. Artists include Nam June Paik (in born, Korea, worked in the U.S.), Jim Campbell (United States), Hung Liu (in born, China, works in the U.S.), Jon Haddock (Arizona), Karol Appel (the Netherlands), Los Carpinteros (Cuba), Deborah Butterfield (United States) and Alejandro Col-
uniga (Mexico).

Through Sept. 19, “I Never Saw So Clearly” explores how human experience is translated into the visual arts by drawing on contemporary and 20th century paint-
ings, prints and mixed media works from the collection of the ASU Art Museum. Working in figurative styles, the diverse range of artists offer insights into their worlds and responds to traditional imagery and ideas from art history and popular culture. The exhibition is curated by Leigh E. Etezady; and “Igor’s Ladder” for two clarinets, by Rogers.

Two clarinetists at once: ASU professor to perform “Double Life’

By Judith Smith

The average person has a difficult time playing the clarinet. You have to get the reed attached to the mouth-piece just so, and position the instrument perfectly in the clarinet. You have to get the reed attached to the mouth-piece. You have to stretch things,” Spring says. “You can only do that here, at ASU.”

So why try to play two clarinets at once? Spring says he originally was scheduled to perform a new work written for him by noted clarinetist Bill Smith, who was the first to explore playing with two instruments, but Smith, who is in his 80s, told Spring a few months ago that he didn’t think he’d have the piece finished by Sept. 13. Spring then contacted Mandat, who teaches clarinet at Southern Illinois University and also writes experimental music for clarinets, to ask him for a piece.

“So he’s a genius,” Spring says.

Some clarinetists might think Mandat is more along the line of a mad man than a genius, however. Performers of his “Double Life” have the option of adding an extension to the B-flat clarinet made with PVC pipe that has three holes in it, enabling the pipe to be “played” with the knees. (Mandat sells the completed extensions, and also instruc-
tions so you can make your own.)

To be able to play two instruments with just two hands, clarinetists must make a few modifications to the B-flat clarinet made with PVC pipe that has three holes in it, enabling the pipe to be “played” with the knees. (Mandat sells the completed extensions, and also instruc-
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tions so you can make your own.)

To be able to play two instruments with just two hands, clarinetists must make a few modifications to the B-flat clarinet. The top holes have to be closed with corks, and the register key propped open with a wedge of cork, thus enabling one hand to play the lower register on one instru-
ment and the higher notes on the other.

“I bought corks at Michaels and I’ve been sanding them to get them to fit,” says Spring during a preview of his upcoming feat.

Spring began practicing “Double Life” in May, and he’s learned that it works best when the mouthpieces are touching.

“I started by playing one clarinet on one side of my mouth, then playing on the other,” Spring says. “The clarinet is usually played with the mouthpiece resting on the middle of the lips.” Then, “I put them together and pffff.” (Imagine air escaping from the mouth.)

Aside from learning to direct air into two instruments at once, Spring says it is difficult to think about – and play – two lines of music, some with different rhythms at the same time. “And, it’s hard when you have to tongue on just one side.

Smith, Spring and Mandat are not the first wind play-

ers to try to play two instruments at once. Spring says he has heard musicians on two cellos, two violins, two saxes at once, and two trumpets (which didn’t sound right, he says). So why try to play two clarinets at once? Spring says he has heard musicians on two cellos, two violins, two saxes at once, and two trumpets (which didn’t sound right, he says). So why try to play two clarinets at once? Spring says he has heard musicians on two cellos, two violins, two saxes at once, and two trumpets (which didn’t sound right, he says).

“I’ve done a lot of new things with the clarinet, such as circular breathing and multiple tonguing, and you have to stretch things,” Spring says. “You can only do that here, at a university.”

The Sept. 13 program includes “Riptide for Clarinet and Bassoon,” by ASU graduate John Rees; “Igor’s Ladder” for clarinet and piano, by ASU composer Rodney Rog-

ers; “Hold Em,” by ASU composition professor Roshann Eugeney; and “Igor’s Ladder” for two clarinets by Rogers. Tickets are $8 ($4 for students). For more information call (480) 965-6447.

To view a video of Robert Spring playing two clarinets at once, visit the ASU News site: http://asunews. au.edu/20090825_clarinet.

Smith, noted clarinetist, can be reached at (480)965-4821 or jspring@asu.edu.


 retains a unique place in the history of Arizona State University and in the history of the Sun Devil football program. Snyder was named head coach of the Sun Devils football team in 1992 and remained in that position until his retirement following the 2000 season. During his tenure, Snyder oversaw the win–loss–tie record of 122–66–5, which included a number of key victories, including a 1994 home victory over Arizona, a two-time national champion, and a stunning 1999 home victory over two-time defending national champion Nebraska. Emerging from that success, the Sun Devils football team participated in the 2000 Rose Bowl, losing to the University of Southern California, 20–17, in a last-minute touchdown.

Snyder, who died April 13, led the Sun Devils to 11 bowl games and 2 national championship titles during his tenure. He was named the Sun Devils’ head coach in 1992 and remained in that position until his retirement following the 2000 season. During his tenure, Snyder oversaw the win–loss–tie record of 122–66–5, which included a number of key victories, including a 1994 home victory over Arizona, a two-time national champion, and a stunning 1999 home victory over two-time defending national champion Nebraska. Emerging from that success, the Sun Devils football team participated in the 2000 Rose Bowl, losing to the University of Southern California, 20–17, in a last-minute touchdown.

Snyder's legacy at Arizona State University is one of unparalleled success. During his 11 years as head coach, Snyder led the Sun Devils to a national championship in 1996 and 1997, as well as a fourth place finish in 1998. He also guided the Sun Devils to a 42–10–2 record, including bowl victories over national champions, Nebraska and Washington. Snyder’s impact on the Arizona State University football program is evident in the accomplishments of his former players, who have gone on to successful careers in professional football and other areas of life.

The Arizona State University Alumni Association will honor Bruce Snyder at the 2009 Alumni Gala on September 24. The event will feature a keynote address by former President Dr. Michael Crow, as well as a special presentation honoring Bruce Snyder. The gala will be held at the Four Seasons Hotel in Scottsdale, Arizona. For more information, please contact the Alumni Association at (480) 965-6081 or visit www.asu.edu/alumni association.

ASU Bookstores to conduct semi-annual sale The ASU Bookstores will conduct a semi-annual sale on faculty regalia for one day only at each of ASU’s four campus store locations. During this time, a sales specialist from the Herrf Jones Company will be available to help customers with the purchase of their custom regalia. The sale hours are as follows:

West campus: 11 a.m. to 2 p.m., Sept. 8.
Tempe campus: 10 a.m. to 3 p.m., Sept. 9.
Polytechnic campus: 11 a.m. to 2 p.m., Sept. 15.
Downtown Phoenix campus: 11 a.m. to 2 p.m., Sept. 16.

The sale will take place in February 2010. For more information, contact Carrie Morales at (480) 965-7923 or carrie.morales@asu.edu.

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Bioscience helps lead state in biomedical innovation

(Continued from page 1)

By Carol Sowers

By May 2009, an internationally recog- nized leader in the storage and dissemina- tion of scientific research, EMBL-EBI, was ready to lead the new Integrated Biobank of Luxem- bourg, and in April 2009, a ceremonial cornerstone was marked to start the building of the Biobank’s construction.

So how does a new biobank institution in Arizona support bioscience and biotech nomic development in Arizona?

Started in 2002, TGem has emerged as a national and international powerhouse of scientific research into the molecu lar, cellular, tissue and systems levels of debilitating diseases of the heart, brain, many forms of cancer and infectious diseases.

But the University of Arizona’s Center for Biomedical Innovation was launched to address some of the world’s most urgent problems affecting human health and the health of our planet.

Both organizations are committed to attracting new investment dollars to Arizona in an effort to enhance existing businesses, spin off new ones and generally catalyze Arizona’s growing global reputation as a leader in biomedical innovation.

In October 2009, the Biomedical and Bioengineering Advanced Research Trust committed $35 million and the Flinn Foundation contributed $10 mil lion to establish the Partnership for Personalized Medicine, comprised of these two organizations, and engaged Nobel laureate William G. Kaelin, the director of the Fred Hutchinson Cancer Research Institute, to lead the effort and serve as its third partner.

In Luxembourg, with the world’s highest per capita income, is a European hub of international banking. Looking to diversify its economy, its government was attracted to TGem’s highly successful model to become an explosive incubator of new ideas through collaborations with hundreds of other research institutes, private businesses and universities. Luxembourg authorized TGem and TGen, and recommended that the Partnership for Personalized Medicine engage with them as well.

The Luxembourg partnership consists of three components:

- The Integrated Biobank of Luxem bourg, led by TGem, was created to pro vide researchers worldwide with usable and reliable biological samples, include cancer tumors, organ samples and blood.

- Luxembourg Project Lung Cancer, led jointly by the partners of Arizona’s Center for Personalized Medicine, comprised of these three components:

- The Center for Systems Biology Luxem bourg, led by the Institute for Systems Biology in Seattle, is tracking 3,000 individuals to see how genes lead to diseases, and developing health tests based on blood profiles and proteomics.

- As mentioned above, the Integrated Biobank of Luxembourg has begun, with support starting out of temporary quarters in July.

- Luxembourg Project Lung Cancer will rely on the work of the Partnership for Pe rsonalized Medicine, funded by Arizona’s Virginia G. Piper Charitable Trust and the Flinn Foundation.

- TGem and the Bioscience Institute also have been rapidly ramping up their diag nostic capabilities, a critical component. In February, the Bioscience Institute established the Virginia G. Piper Center for Personal ized Diagnostics. In May, TGem completed construction at its downtown Phoenix head quarters of its Center for Photonics, another key segment of the Partnership.

- The Institute for Systems Biology, Center for Systems Biology Luxembourg and the University of Luxembourg have begun their first year of study focused on explor ing different sequencing methods.

- Caspermeyer, with the Bioscience Institute, can be reached at (480) 775-0490 or joseph.caspermeyer@asu.edu.

Evaluation of State and Territorial Public Health Nutrition Directors...

...and recent ASU graduate, taught the students how to operate the cameras, make the art of storytelling, and document social issues with photography. The students went on “photo walks” to practice their skills. Once familiar with the digital cameras, they were given weekly assignments on a broad health-related subject and returned every Saturday to down load their pictures and talk about their images.

Hamersma, reaching out with other stakeholders of Photovoice want their pictures to get more attention and are looking for restaurants, schools, libraries, community centers, coffee shops and any other place to show their exhibit. Anyone interested in hosting the exhibit can call Sandlin at (979) 777-0993 or Szkupinski Quiroga at (480) 927-6089.

The South Mountain Salvation Army is a second home and safe haven for many young South Phoenix children. The center has a large menu of activities: competitive sports, tutoring by ASU teachers-in-training, field trips and arts and crafts. To read the full version of this story, visit the ASU News site: http://asunews.asu.edu/20090901_photovoice

Sowers, with the Mary Lou Fulton Institute and Graduate School of Education, can be reached at (602) 544-4433 or converse@asu.edu.

Magazine recognizes researcher’s innovative solutions, societal impact

(Continued from page 1)

Friesen fixed that by using a porous electrode with a large surface area of zinc ions and additives as an electrolyte.

He has co-founded Fluidic Energy to commer cialize his design for a rechargeable metal-air battery. Testing of a prototype is planned for later this year. Friesen’s goal is to see batteries on the mar ket in about two years that can store twice as much energy as the batteries currently used in laptop computers and some hybrid electric cars. Eventually, he says, the metal-air technology could produce a battery capable of storing 10 times as much energy as today’s lithium-ion devices — and be less expensive to produce than conventional bat teries.

There’s also great potential for using the new batteries in mobile devices of energy from wind generated and solar-generated electricity.

“Entrepreneurial spirit, risk-taking and the de sire to make a positive impact on society are the key factors driving the growth and evolution of our school,” says Kyle Squires, the interim director of the School of Materials Science and Engineering.

Cody embodies these traits and a true entrepreneur.

Friesen’s recognition by Technology Review “is a validation of the environment that is being shaped at ASU, where we promote entrepreneurship and encourage our students to jump start their innovative solutions,” Squires says.

Friesen and other TR3 winners will be featured in the September/October issue of Technol ogy Review magazine and honored Sept. 22-24 at the School of Materials Science and En gineering Review magazine and honored Sept. 22-24 at the School of Materials Science and Engineering’s annual Technology Review Awards and Fall Grad uation Convocation.

Friesen, along with other TR3 winners, will be featured in the September/October issue of Technology Review magazine and honored Sept. 22-24 at the School of Materials Science and Engineering’s annual Technology Review Awards and Fall Grad uation Convocation.

Flenniken, with the Ira A. Fulton Schools of Engineering, can be reached at (480) 965-8122 or jee flenniken@asu.edu.
**From aircraft artifact to pop art exhibit: ‘Spirit of St. Louis’ flies again**

By Stephen Des Georges

The schoolyard saying, “takes one to know one,” could easily be the title of an upcoming exhibit of pop art featured at Arizona State University’s West campus. After all, the three-day show focuses on a celebration of legendary aviator Charles Lindbergh and his flying machine, the Spirit of St. Louis, as seen through the eyes and mixed media artistry of Nova Hall, the grandson of the plane’s designer, Donald A. Hall.

“Flying Over Time,” scheduled for Sept. 10-12 in the campus Second Stage West, brings to life the untold story of the team—Lindbergh and Hall—that built the customized, one-of-a-kind airplane in an astonishing 60 days during the spring of 1927.

Last semester, Hall’s exhibit was selected best in the arts category at the 2009 Undergraduate Research and Creative Projects Expo at the West campus.

“Art and aviation have always been my passion,” says Hall, who is ASU’s New College of Interdisciplinary Arts and Sciences who is the author of “Spirit and Creator,” a photographic history of the design effort, the teamwork involved and the ultimate success of “Lindy’s” famous trans-Atlantic flight from New York to Paris. “Now, with ASU’s support, I’m seeing a dream come true in this exhibit. Because of this show, this history is being brought to life for my generation after 80 years.”

“With the theater space and the lighting in Second Stage West, it should be more dramatic and inspiring. Designing a custom exhibit could be used to describe the younger Hall’s journey into his family’s— and this country’s— history. It’s a tale, in fact, that was the subject of a television mini-series, Lindbergh: The Spirit of St. Louis, first broadcast in 1979.”

Lindbergh, thought to be long gone, had a trunk that belonged to Hall’s granddad. Inside was found an old steamer trunk. “What was inside the trunk became the basis for ‘Spirit and Creator,’” Hall says.

“His photographs and his collection offer a personal inspiration, insight into the life he lived, and particularly into the ‘visceral feeling’ of being at the epicenter of the golden age of aviation.”

Hall says the Sept. 10-12 exhibit is important because it reminds us anything is possible.

“The public needs to see this exhibit because of the simple assertion that was proven in 1927—that together we can achieve anything, if we only have the fortitude, the spine, the passion to follow our dreams. Big or small, these lessons are critical to our human existence.”

“My grandfather and a young Charles Lindbergh took the chance. They took a huge chance on a dream, and then they made it a reality. We need to remember these defining times in our history. They help us maintain our hope and faith in the people around us and in those who came before us.”

“Flying Over Time” can be viewed from 6:30 to 9 p.m., Sept. 10-11, and from 1 to 4 p.m., on Sept. 12. Admission is free. Second Stage West is located on the base level of the East Lobby of the University Center Building (UCB) on the West campus. Additionally, Hall will be at the West campus Bookstore to sign copies of his book, “Spirit and Creator,” from 11:30 a.m. to 12:30 p.m. Books will be available for purchase at the Bookstore.

The campus is located at 4701 West Thunderbird Road in Phoenix. Additional information is available by calling (602) 543-5560.

**In Print**

In Print highlights books written by ASU employees. To submit a summary of a recently published work, send it via e-mail to asu.insight@asu.edu or call (480) 965-9608. A reproducible cover of the book may accompany the submission.

“Mars,” by Conard Storad, director of research publications

Published by Lerner Classrooms

A description of Mars, the fascinating red planet, this book discusses Mars’ distinguishing characteristics, its position in the solar system, its composition and atmospheric conditions, its moons and how scientists have learned about Mars over time. Color photos and diagrams enhance understanding of the text.


Published by Palgrave Macmillan

This volume of entirely new essays provides innovative and interdisciplinary approaches to the various ways Shakespeare’s Macbeth has been adapted and appropriated within the context of American racial constructions. Comprehensive in its scope, this collection addresses the long and complicated history of Macbeth in the United States, from its appearance as the first Shakespearean play brought to the American colonies in 1699 (by a plantation owner) to the forthcoming Hollywood film version with a black diasporic cast.


Published by Arthur H. Clark Company

When William R. Goulding and the Knickerbocker Explorers Company struck out on their first overland route to California in 1849, they were on a road less traveled. This rare first-person account of the southern Gold Rush trails, highlights an important alternative route to the Pacific coast.

One of the best-educated Gold Rush participants, Goulding kept a remarkably articulate journal that recounts his meetings with the interesting and important people he encountered along the way. He describes the details of the trail itself—the weather and scenery, birds and animals, and a march “amidst heaps of miradors of buffalos in all directions as far as the eyes could reach.” Goulding also recorded encounters with Hispanics and American Indians. His sketch of a Comanche chief is the earliest known documentation of that culture’s distinctive regalia. He even witnessed the devastation of Apache raids in Arizona.

Editor Patricia A. Eter, a recognized authority on the Southern trails, locates desert routes that have long since vanished and identifies sites now known by different names. She ably sets the scene for modern readers of the journal and illuminates important historical details. Twenty images, including rare sketches from Goulding’s papers, and four maps of the route illustrate his journey.


Carlson analyzes the situations of several women of varying historical stature, from the insanity trials of Mary Todd Lincoln and Luise Borden’s trial for the brutal slaying of her father and stepmother, to lesser-known trials involving insanity, infidelity, murder, abortion and interracial marriage.

At the heart of these cases, Carlson reveals just how narrow the line was that women had to walk, since the same vampish vices that were expected of them—passivity, frailty and purity—could be used against them. With gripping retellings and incisive analysis of these scandalous criminal and civil cases, this book will appeal to historians, rhetoricians, feminist researchers, and anyone who enjoys courtroom drama.