

INSIDE INSIGHT

Enrollment growth 2
ASU's spring numbers increase

Notable scholars 3
2 professors claim mentor awards

Love and betrayal 5
'Rape of Lucretia' opens Feb. 25

Public Programs 8
Dean search narrows to 3 finalists

No more measles

The Maricopa County Department of Public Health has announced that no additional measles cases have been reported following the discovery of measles in an adult male visitor to ASU's Tempe campus last month.

ASU students, faculty and staff who could not show proof of measles immunity are allowed to return to campus and normal activities as of Feb. 14. Measles vaccination clinics provided by the ASU Health and Wellness Center, the College of Nursing and Employee Wellness allowed those not already immunized the opportunity to receive a vaccine and increased the campus community's overall immunity against the disease.

Good legal work

Students at ASU's College of Law provided nearly 58,000 hours of free legal and law-related services to local citizens and organizations during 2004. If billed at the standard clerk rate of about \$100 per hour, the total value of services provided would be \$5.8 million, says K Royal, director of pro bono development at the college.

"Pro bono publico" is a Latin term meaning "for the public good." All lawyers have a professional obligation to provide legal services to those who otherwise would go unrepresented or to stand up for the rights of citizens in contexts requiring a public voice, Royal says.

The number of hours worked by the college's students has been growing over recent years. In 2003, the students worked 43,000 hours.

Royal says the 2004 hours represent a 30 percent increase over the previous year.

Love for education

February is known as the month of love, with Valentine's Day and healthy heart awareness events. That's why ASU's education program at the East campus chose February as the perfect month for their second annual "Show Your Love for Education" event Feb. 26.

The event includes a "5K Walk 'n' Roll-a-Thon" tour of the campus, a midday scramble-style golf tournament, and a dinner/dance and silent auction.

This year the education program will honor Kathleen Wiebke, deputy associate superintendent for highly qualified professionals at the Arizona Department of Education. Kathleen is Arizona's first teacher to earn the National Board Certification for Teaching.

Last year's event raised more than \$10,000, which benefited The Edward T. Hopper Memorial Fund, advancing the use and application of technology in K-12 education; and Project eXcellence, developing technology-enriched curricula for children of migrant families and students in urban and underserved schools.

For more information about the event, contact Debi Molina-Walters at (480) 727-1410 or (drmo@asu.edu) by Feb. 21, or visit (www.east.asu.edu/showlove).

ASU boasts 2 of top 40 students in U.S.

USA Today places MacIntyre, Niska on all-academic teams

By Sarah Auffret

Continuing an amazing record of accomplishment, two more ASU students have been named to USA Today's All-USA Academic Teams in the Feb. 17 issue of USA Today.

ASU has had more students named top U.S. undergraduates by the newspaper over the past 11 years than any other public school. Only Harvard and Yale have had more.

Scott MacIntyre, a senior in piano perfor-

mance in the Herberger College of Fine Arts, has been chosen one of the top 20 undergraduates in the United States, named to the first team. Jared Niska, who graduated in December with a degree in bioengineering from the Ira A. Fulton School of Engineering, was named to the second team of 20 students.

The USA Today award winners are chosen annually from more than 600 top students nominated from their schools. The national recognition is especially meaningful because a panel of judges considers grades, leadership and activities – and, most importantly, how students extend their intellectual talents beyond the classroom.



Scott MacIntyre



Jared Niska



Parrots long have been a favorite pet animal, both for their personalities and their beautiful colors. An ASU researcher says he thinks he now knows what's behind the chemistry that makes some parrots' feathers red.

FLYING COLORS

Novel chemistry at play behind parrot's red plumage

By Skip Derra

Parrots, long a favorite pet animal, are attractive to owners because of their vibrant colors. But those colors may mean more to parrots than what meets the eye.

For more than a century, biochemists have known that parrots use an unusual set of pigments to produce their rainbow of plumage colors, but their biochemical identity has remained elusive. Now, an ASU researcher has uncovered the chemistry behind the colors of parrots, describing on a molecular level what is responsible for their bright red feathers.

The work casts a new light on what is chemically responsible for the colors of birds, and the findings defy previous assumptions and explanations for color variations in parrots, says Kevin McGraw, an assistant professor in ASU's School of Life Sciences.

"Evolutionary biologists have not really thought hard about parrot coloration," McGraw says. "This research is exposing a whole new world of color communication in parrots – and the potential physiological and biochemical roles of the new molecules we found in our work."

(See NOVEL on page 7)

Architecture faculty named as finalist for 9/11 memorial

By Julie Russ

Terry Surjan, a visiting assistant professor of architecture in ASU's College of Architecture and Environmental Design (CAED), is part of a team that has been chosen as a finalist in the Flight 93 National Memorial competition to design a permanent memorial for the people who died Sept. 11, 2001, in rural Pennsylvania.

Surjan and team member Laurel McSherry comprise one of five teams to enter Stage II of the competition chosen out of 1,011 design entries. Their competition entry is titled "Fields, Forests, Fences."

McSherry was a member of the CAED landscape architecture faculty until 2003, when she was named director of the School of Landscape Architecture at The Ohio State University.

A second finalist team with ties to ASU is headed by Frederick Steiner, past director of the School of Planning, who is the dean of the School of Architecture at the University of Texas-Austin. His team member, E. Lynn Miller, is a past adjunct faculty in landscape architecture at ASU.

The finalists for Stage II were announced Feb. 4. Each team of finalists will be awarded \$25,000 to advance their designs before participating Feb. 24 – 25 in a Master Planning Workshop in Somerset, Pa., the site of the plane crash.

The final decision on the winning con-

(See FACULTY on page 7)

Edson initiative bankrolls 16 student-led ventures

By Karen Leland

With the help of the inaugural Edson Student Entrepreneur Initiative selection process, 16 ASU student-led ventures are now under way.

The student teams competed for award money to explore their innovative ideas for business products and services or social good. Submissions came from 99 teams from across the ASU campuses and disciplines.

The initiative, made possible by a \$5.4 million donation from Orin Edson to the ASU Founda-

tion, supports 16 new ventures. Awards include up to \$20,000 in seed funding, office space at the initiative's facility located at the Brickyard in downtown Tempe, and training and networking opportunities with faculty, researchers and successful entrepreneurs.

"The students were great, and we had nearly 100 venture proposals," says Orin Edson, the founder of Bayliner Marine Corp. and the program's benefactor. "There were many outstanding proposals, and we are pleased that we are able to help many students become entre-

preneurs and further their business experiences."

Team members of the 16 Edson ventures come from a wide range of ASU academic units, including the W. P. Carey School of Business; the Ira A. Fulton School of Engineering; the College of Liberal Arts and Sciences; the Division of Undergraduate Academic Services; the College of Public Programs; the College of Education; and the College of Architecture and Environmental Design.

The 16 Edson venture awardees for 2005 are:

- Ad-Ease: Delivers low-cost/high-impact advertising and promotional services to small businesses and organizations whose target market includes 18- to 24-year-olds.

- Algal Biorefinery Team: Patents and licenses an algal photobioreactor used for large-scale wastewater remediation and in the production of high-value nutraceutical, pharmaceutical and cosmetic products.

- AWARE (A Worldwide Action Revitalizing Education): En-

(See EDSON on page 6)

Football season ticket prices rise slightly for 2005

Ticket prices in Sun Devil Stadium have been increased slightly for the first time in four years – but the prices are still lower than they were in 2003.

ASU has announced that football season and single-game ticket prices will be raised slightly over last year for the 2005 football season, according to Sun Devil Senior Associate Director of Athletics Tom Collins. Even with the price increase, ASU's football ticket prices are lower than in 2003, when the administration made national news by drastically lowering ticket prices.

ASU's continued commitment to the Sun Devil fan base is demonstrated through an informal survey of the remaining Pacific-10 Conference schools conducted by the ASU Athletic Ticket Office. The survey shows that, for the second year in a row, ASU will have nearly the lowest prices on season and single-game tickets in the Pac-10.

The 2005 Sun Devil football schedule features six home games, including two-time defending national champion USC (Oct. 1), Senior Day in a contest against the University of Arizona (Nov. 25), traditional Pac-10 Conference powers Oregon (Oct. 8) and Washington (Oct. 29), and non-conference games against Northwestern (Sept. 17) and Temple (Sept. 1).

Last year, ASU offered two complimentary season tickets to each season ticket holder if they renewed their account by April 1. This year, ASU is offering patrons their 2004 complimentary tickets at half-price if they renew their accounts by this coming April 1.

Both season and single-game tickets carry a scholarship surcharge and a stadium improvement surcharge. Funds from both fees will be deposited with the Sun Angel Foundation, a nonprofit entity that exists to support ASU athletics. The fees are as follows:

- Season tickets: \$5 scholarship surcharge and a \$5 stadium improvement surcharge (excludes student tickets).
- Single-game tickets: \$2 stadium improvement surcharge on all single-game tickets. There will be a \$5 scholarship surcharge on the Northwestern game ticket (excludes "Koetter's Korner" and

student tickets). For half-price season tickets, the fees are \$2.50, respectively.

Additional benefits of owning season tickets to ASU football include bowl game ticket priority and the opportunity to buy a parking pass. Season ticket holders also receive additional price savings by buying season tickets in non-donation sections rather than buying on a single-game basis.

ASU also is pleased to announce the return of the very popular "Koetter's Korner" in Section 1 of Sun Devil Stadium. "Koetter's Korner" offers fans the opportunity to buy single-game tickets for \$5. The seating capacity in "Koetter's Korner" is limited (434 seats) and will be open to the general public on a first-come, first-served basis. Tickets in "Koetter's Korner" will go on sale via telephone the Monday before each home game. Ticket limits will be imposed to guarantee the opportunity for as many patrons as possible to take advantage of this popular offer.

This season, for the first time, season ticket holders will receive their football season ticket information and any applicable Sun Angel Foundation information they have on their account at the same time. This change will allow season ticket holders that are Sun Angel members to send in all of their payments at one time. Included in the renewal is the half-priced season ticket offer. All of last year's season ticket holders have the opportunity to buy two season tickets at half-price for the 2005 season, provided they renew their original tickets in full and do not reduce the number of full-priced seats they had in 2004. The deadline to take advantage of the half-price season tickets is April 1.

Deposits for new season tickets are being taken now. By putting down a deposit, those interested in buying new season tickets for the 2005 football season will be given the first opportunity to buy the best available new season ticket locations when new season ticket sales begin April 8.

Single-game ticket sales will begin at 9 a.m., Aug. 4.

The spring football game is at 2:30 p.m., April 16, at Frank Kush Field/Sun Devil Stadium.

Judges sought for May science, engineering fair

By Judith Smith

Wanted: a thousand good men – and women – with science, engineering or medical backgrounds.

The job: Judge science and engineering projects from around the world for the 2005 Intel International Science and Engineering Fair, to be held May 8 – 13 at the Phoenix Civic Plaza.

The reward: New friends, a glimpse of tomorrow's new ideas – and the knowledge that you have encouraged young scientists to reach for the sky.

Judges must be prepared to donate a day to a day-and-a-half to the project, and be available May 10 – 11.

Not all the time is spent working, however. The judging schedule includes a discussion with Nobel laureates, Draper winners and others on May 10; judges' dinners on both days; and the grand finale, a celebration and mixer at the Arizona Science Center May 11 after all the work is done.

Judges must have a doctoral or medical degree, or a bachelor's or master's degree in science, and at least six years of experience in a related science, medical or engineering field.

For more information about the judging process, or to sign up, go to (www.Intelise2005.org/judges). Click on "judges" and follow the prompts. Or send an e-mail to (glaunsingerscience@presenceknown.com).

Smith, with Marketing & Strategic Communications, can be reached at (480) 965-4821 or (jps@asu.edu).

Novel chemistry at play behind parrots' red plumage

(Continued from page 1)

Details of the work are in a paper, "Distribution of unique red feather pigments in parrots," by McGraw and Mary Nogue, a parrot fancier from Snoqualmie, Wash., published in the Feb. 16 issue of the journal *Biology Letters*.

Animals, like birds and fishes, commonly use biochromes like carotenoids to acquire red, orange or yellow coloration, but McGraw and Nogue found that these compounds are not responsible for the red colors found in the parrot species they sampled.

The researchers used a chemical analysis technique called high-performance liquid chromatography to survey the pigments present in red parrot feathers. McGraw and Nogue collected and analyzed samples from 44 parrot species that have red feathers. Overall, there are about 350 species of parrots, 80 percent of which have red in their plumage.

They found a suite of five molecules, called polyenal lipochromes (or psittacofulvins), that color parrot plumage red in all of the species studied.

"We've uncovered a system where all red parrots use the same set of molecules to color themselves," McGraw says. "It is a unique pigment found nowhere else in

the world. We are fascinated at how parrots are able to do this.

"The fact that there is a single set of molecules unique to and widespread among parrots suggests that it is a pretty important evolutionary novelty, and one we should carefully consider when we think about why parrots are so strikingly colorful."

McGraw has been studying the colors of birds for seven years. He first became interested in the behavioral significance of bird colors as a form of visual communication within a species (as a way to denote status or attractiveness, for example). As he studied these aspects, he wanted to understand more about what makes the colors of the birds possible, and then focused on "deconstructing the color into its component parts."

McGraw says an interesting aspect of the five polyenal lipochromes that provide the red in parrots, is that the pigment is found only in the bird's feathers and nowhere else in the bird's body, indicating that parrots manufacture these molecules internally and directly at the maturing follicles of the growing, colorful plumage.

In addition, these pigments may play a valuable role in maintaining the health

of parrots. McGraw cites an independent study on the parrot pigments that suggests they can act as antioxidants to quench free radicals and potentially protect cells and tissues in the body from oxidative damage.

Now, McGraw says, he's interested in learning more about the connection between the red colors and antioxidants within and among parrot species, as well as "to specifically explore the balance of naturally and sexually selected costs and benefits to becoming colorful."

"Parrots are unusual among birds, in that they almost without exception display fantastic colors but exhibit very little variation in color within a species – at least in colors visible to us," he says. "Parrots in general may not be using color in the classic cases of mate choice or competitive ability. Exactly why they are so uniformly colored remains an interesting mystery to us – one we want to investigate."

"There is a sea of colors in birds," he adds. "Our goal is to learn why there is such a diversity from an evolutionary standpoint."

Derra, with Marketing & Strategic Communications, can be reached at (480) 965-4823 or (skip.derra@asu.edu).

Faculty member named finalist for 9/11 memorial

(Continued from page 1)

cept will be announced in September, and the winning team will be invited to negotiate a contract with the National Park Service for design of the new memorial.

More information on the competition and Stage II winning designs is available at (www.flight93memorialproject.org).

The Pentagon 9/11 Memorial design competition was won by ASU CAED architecture graduate Keith Kaseman. The Pentagon Memorial Fund is raising \$30 million to build and maintain the memorial.

Russ, with the College of Architecture & Environmental Design, can be reached at (480) 965-6693 or (jruss@asu.edu).

EMPLOYMENT

The following positions are available as of Feb. 15 and are subject to change. All positions will be advertised in Insight only once. Staff Requisition or Job Order number for each position is indicated by the (#) sign. ASU is an equal opportunity/affirmative action employer.

ASU POSITIONS

A complete job announcement for classified, administrative and service professional positions at the Tempe, East and downtown Phoenix campuses is available on the Human Resources Web page at (www.asu.edu/hr/jobs), or the Telecommunication Device for the Deaf at (480) 965-3002. Announcements for West campus openings are available on the West Human Resources Web page (www.west.asu.edu/adaff/hr/JOBS/jobOpps.htm) and on the West Dial-a-Job Hotline at (602) 543-5627.

For complete position descriptions/application requirements for academic positions, contact the appropriate department listed below. Faculty, academic professional and graduate assistant positions are also listed on the Human Resources Web sites and details must be obtained from the hiring department. Application deadlines are listed.

Dates listed are application deadlines and application material is due by 5 p.m. on that date. Positions are 100% FTE unless otherwise noted. Codes below are: (C) – Classified; (A) – Administrative; (S) – Service Professional; #O – position is open to the public; #U – position is limited to current ASU, Northern Arizona University, University of Arizona and Arizona Board of Regents employees.

STAFF POSITIONS

TEMPE CAMPUS

Professional

Accountant (C)/#O-118944 – Financial Services (Feb. 25; every two weeks thereafter

until search is closed).

Buyer, Senior (C)/#O-118917 – Purchasing & Business Services (Feb. 25; every two weeks thereafter until search is closed).

Facilities Project Coordinator (C)/#O-118855 – Capital Programs Management (Feb. 25; every two weeks thereafter until search is closed).

Management Intern (C)/#O-118887 – Office of Vice President for Student Affairs (50% FTE) (Feb. 25; every two weeks thereafter until search is closed); (C)/#O-118675 – Residential Life (50% FTE) (Feb. 25; every week thereafter until search is closed).

Program Coordinator (C)/#O-118871 – Barrett Honors College (Feb. 23; every two weeks thereafter until search is closed).

Technical and computer

Applications Systems Analyst, Senior (C)/#O-118884 – Information Technology (Feb. 25); (C)/#O-118935 – Information Technology (March 4).

Computer Operations Support Specialist (C)/#O-118928 – Summer Sessions/Commencement (50% FTE) (Feb. 25).

Administrative support

Administrative Assistant (C)/#O-118923 – Biondesign Institute (Feb. 25; every week thereafter until search is closed).

Accounting Specialist (C)/#U-118906 – Department of Geological Sciences (Feb. 25; every two weeks thereafter until search is closed).

Office Assistant/Receptionist, Senior (C)/#O-118902 – Undergraduate Admissions

(Feb. 25; every two weeks thereafter until search is closed).

Office Specialist, Senior (C)/#O-118926 – International Institute for Sustainability (Feb. 25; every week thereafter until search is closed).

Secretary (C)/#O-118994 – Barrett Honors College (50% FTE) (March 4; every two weeks thereafter until search is closed).

Service/field craft/maintenance

Field Operations Supervisor (C)/#O-118840 – Parking & Transit Service (Feb. 23; every two weeks thereafter until search is closed).

Plumbing Assistant Supervisor (C)/#O-118810 – Plumbing Services (Feb. 25; every two weeks thereafter until search is closed).

ACADEMIC POSITIONS

TEMPE CAMPUS

Graduate student positions

History – Graduate Research Assistant/#P4378; Graduate Research Associate/#P349; Graduate Teaching Assistant/#P4380; Graduate Teaching Associate/#P4381 (Pool Recruitment) (50% FTE) (Feb. 23; every Monday thereafter until search is closed) (Coor Hall, room 4481; (480) 965-3326).