Going digital
Eight/KAET-TV will shut off its ana-
log transmitter April 29 at 11:59 p.m.
Analog broadcasts of Eight in Mari-
\[ ...\]农业科技，科技进步。
Students earn prestigious RFK Journalism Award

A student project on families divided by the U.S.-Mexico border won a prestigious Robert F. Kennedy Journalism Award for ASU’s Walter Cronkite School of Journalism and Mass Communication.

The project, “Divided Families,” won in the college print journalism category. It traces the stories of families who are separated as a result of legal and illegal immigration, and it explores the social consequences of public immigration policy.

In announcing the award, Ethel Kennedy, the widow of Robert F. Kennedy, described the Cronkite project as “moving and wonderfully done.”

“It’s good for the rest of us to know what (families on both sides of the border) are going through and the pain of separation,” she said.

The Robert F. Kennedy Center for Justice and Human Rights also announced 2009 winners in nine professional categories. They included the New York Times, the Washington Post, the Charlotte Observer and National Public Radio.

The RFK Journalism Awards program honors outstanding reporting on issues that reflect Robert F. Kennedy’s concerns, including human rights, social justice and the power of individual action in the United States and around the world.

Winners examine the causes, conditions and remedies of injustice, and analyze current political realities and active policies and political endeavors.

The winning entries were selected by a panel of 40 judges in several rounds.

The awards will be presented at a ceremony May 28 as George Washington University in Washington. The grand prize winner will be announced at the ceremony. Winners receive a cash prize and a bust of the late senator and U.S. attorney general.

Arizona governor pays visit to College of Law

By Janie Magnuder

In her 12th week in office, Arizona Gov. Janice Brewer visited ASU’s College of Law and registered favorable quotation from the 20th president of the United States, James Garfield.

“Things don’t turn up in this world until somebody turns them up,” Garfield told his fellow senior law students during a session April 16 with Paul Schiff Berman, the college’s dean. “And I think that you will be doing that.”

Brewer, a Republican who was secretary of state in Pennsylvania, took over as the state’s first female Gov. Janet Napolitano in January when Napolitano became the Secretary of the Department of Homeland Security. Brewer’s predecessor, Democrat Barack Obama’s administration. Brewer had last visited the College of Law when her son, Michael, was a law student.

She was introduced by Phoenix attorney Ernest Calderon, a member of the Arizona Board of Regents who characterized her as “a champion of higher education at a time when we have champions.”

Berman credited Brewer with working to “find a way to get through this budget crisis without completely dismantling the university system.” He added that she understood the important role that universities long have played in educating civilians and providing a research engine for economic progress.

Brewer also is “someone who cares about poor people,” Calderon said at the event, adding: “She and I worked together on a major project to help the homeless in Phoenix against some very powerful foes who want to close their eyes to the homeless.”

He was referring to Brewer’s announcement that $771,000 is being awarded to help homeless shelters facing imminent closure. The funding, through the Arizona Housing Trust Fund, will enable five shelters in the Phoenix metropolitan area, Tucson and Prescott to continue helping more than 700 Arizonans into next fiscal year.

With a $10 billion budget and a $3 billion deficit, “Arizona is facing a catastrophic time,” Brewer told the law students. But she expressed confidence that first-year law students will survive the “catastrophic time,” Brewer told the law students. But she expressed confidence that first-year law students will survive the

Students earn prestigious RFK Journalism Award

A student project on families divided by the U.S.-Mexico border won a prestigious Robert F. Kennedy Journalism Award for ASU’s Walter Cronkite School of Journalism and Mass Communication.

The project, “Divided Families,” won in the college print journalism category. It traces the stories of families who are separated as a result of legal and illegal immigration, and it explores the social consequences of public immigration policy.

In announcing the award, Ethel Kennedy, the widow of Robert F. Kennedy, described the Cronkite project as “moving and wonderfully done.”

“It’s good for the rest of us to know what (families on both sides of the border) are going through and the pain of separation,” she said.

The Robert F. Kennedy Center for Justice and Human Rights also announced 2009 winners in nine professional categories. They included the New York Times, the Washington Post, the Charlotte Observer and National Public Radio.

The RFK Journalism Awards program honors outstanding reporting on issues that reflect Robert F. Kennedy’s concerns, including human rights, social justice and the power of individual action in the United States and around the world.

Winners examine the causes, conditions and remedies of injustice, and analyze current political realities and active policies and political endeavors.

The winning entries were selected by a panel of 40 judges in several rounds.

The awards will be presented at a ceremony May 28 as George Washington University in Washington. The grand prize winner will be announced at the ceremony. Winners receive a cash prize and a bust of the late senator and U.S. attorney general.

Arizona governor pays visit to College of Law

By Janie Magnuder

In her 12th week in office, Arizona Gov. Janice Brewer visited ASU’s College of Law and registered favorable quotation from the 20th president of the United States, James Garfield.

“Things don’t turn up in this world until somebody turns them up,” Garfield told his fellow senior law students during a session April 16 with Paul Schiff Berman, the college’s dean. “And I think that you will be doing that.”

Brewer, a Republican who was secretary of state in Pennsylvania, took over as the state’s first female Gov. Janet Napolitano in January when Napolitano became the Secretary of the Department of Homeland Security. Brewer’s predecessor, Democrat Barack Obama’s administration. Brewer had last visited the College of Law when her son, Michael, was a law student.

She was introduced by Phoenix attorney Ernest Calderon, a member of the Arizona Board of Regents who characterized her as “a champion of higher education at a time when we have champions.”

Berman credited Brewer with working to “find a way to get through this budget crisis without completely dismantling the university system.” He added that she understood the important role that universities long have played in educating civilians and providing a research engine for economic progress.

Brewer also is “someone who cares about poor people,” Calderon said at the event, adding: “She and I worked together on a major project to help the homeless in Phoenix against some very powerful foes who want to close their eyes to the homeless.”

He was referring to Brewer’s announcement that $771,000 is being awarded to help homeless shelters facing imminent closure. The funding, through the Arizona Housing Trust Fund, will enable five shelters in the Phoenix metropolitan area, Tucson and Prescott to continue helping more than 700 Arizonans into next fiscal year.

With a $10 billion budget and a $3 billion deficit, “Arizona is facing a catastrophic time,” Brewer told the law students. But she expressed confidence that first-year law students will survive the “catastrophic time,” Brewer told the law students. But she expressed confidence that first-year law students will survive the
Altheide tracks Laboratory media discourse

‘School shooting’ references have morphed into ‘terrorism’

December spent studying mass media messages of fear led ASU scholar David Altheide to examine how the Columbus High School shootings on April 20, 1999, originally were portrayed in the media — and how those messages changed in 2007, terrorism attacks in New York and Washington, D.C., and in the time frame leading up to the current war in Iraq.

Altheide, a Regents’ Professor of justice and social research at the School of Social Transformation, describes his findings in “School Shootings and the Discourse of Fear”. His article discusses the role of scholars in the field, a special two-part edition of the journal American Behavioral Science this April and May, with the theme “Lessons of Columbine”.

Previous shootings rarely used the word “terrorism”, except to imply that urban gangs were “terrorizing” communities. Altheide says that, initially, nearly every mass media account described the shooting at Columbine as a horrific school shooting.

But terrorism became more closely associated with the “Columbine shooting” in September 2001. Referring to the events as “terrorism” became common in the media’s portrayal of shootings in the media, and it linked them in a propagandist campaign to control energies at home and abroad. The same thing happened in the past, school administration and local law enforcement officials told each event.

“Now federal agencies, including the FBI and Homeland Security, are involved,” Altheide says. “Schools in many communities have increased security. Our fear of terrorism has been great. We fear that something traumatic will happen. Our fear is the same as any normal person’s fear at the possibility of terrorism.”

But terrorism is a war on humanity, Altheide argues. “It is not an appropriate response to a school shooting to consider it a war on humanity. We need to see the media’s portrayal as a war on us.”

David Altheide

Altheide notes that more research is needed to support his analysis.

In his article, Altheide contends that the extensive coverage and framing of the shootings as terrorism contributed to the broad discourse of fear, as well as a more specific context for worrying about and protecting children, legitimizing the war on terror and expanding social control.

In the past, the school administration and local law enforcement officials told each event. “Now federal agencies, including the FBI and Homeland Security, are involved,” Altheide says. “Schools in many communities have increased security. Our fear of terrorism has been great. We fear that something traumatic will happen. Our fear is the same as any normal person’s fear at the possibility of terrorism.”

But terrorism is a war on humanity, Altheide argues. “It is not an appropriate response to a school shooting to consider it a war on humanity. We need to see the media’s portrayal as a war on us.”

Many of these media lines were linked, including threats to the change to the terrorist attack at the Columbine Advanced, calling the system under a thick ice cap.

In the paper, however, Milukas and her colleagues argue that the data that suggest the terrorism-related fine scales of photosynthesis are far more exotic and more adaptable — than the early explorers thought.

One of the red color is a result of all that Fe(II) produced by bacteria,“ Anshar says. “When the Fe(II)-rich water reaches the surface, the Fe(II) is in the air. The Fe(II) acts with oxygen in the air to make Fe(III) compounds that are of sort like this. That’s the source of the red color.”

The microbes are remarkably similar in nature to species found in marine environments, leading to the conclusion that the populations under the glacier are the result of a large number of organism that once occupied a food or sea that received sunlight.

Many of these marine lines likely declined, while others adapted to the changing environment. The Taylor Glacier advanced, sealing off the system under a thick ice cap.

In the paper, however, Milukas and her colleagues argue that the data that suggest the terrorism-related fine scales of photosynthesis are far more exotic and more adaptable — than the early explorers thought.

One of the red color is a result of all that Fe(II) produced by bacteria,“ Anshar says. “When the Fe(II)-rich water reaches the surface, the Fe(II) is in the air. The Fe(II) acts with oxygen in the air to make Fe(III) compounds that are of sort like this. That’s the source of the red color.”

The microbes are remarkably similar in nature to species found in marine environments, leading to the conclusion that the populations under the glacier are the result of a large number of organism that once occupied a food or sea that received sunlight.

Many of these marine lines likely declined, while others adapted to the changing environment. The Taylor Glacier advanced, sealing off the system under a thick ice cap.

In the paper, however, Milukas and her colleagues argue that the data that suggest the terrorism-related fine scales of photosynthesis are far more exotic and more adaptable — than the early explorers thought.

One of the red color is a result of all that Fe(II) produced by bacteria,“ Anshar says. “When the Fe(II)-rich water reaches the surface, the Fe(II) is in the air. The Fe(II) acts with oxygen in the air to make Fe(III) compounds that are of sort like this. That’s the source of the red color.”

The microbes are remarkably similar in nature to species found in marine environments, leading to the conclusion that the populations under the glacier are the result of a large number of organism that once occupied a food or sea that received sunlight.

Many of these marine lines likely declined, while others adapted to the changing environment. The Taylor Glacier advanced, sealing off the system under a thick ice cap.

In the paper, however, Milukas and her colleagues argue that the data that suggest the terrorism-related fine scales of photosynthesis are far more exotic and more adaptable — than the early explorers thought.

One of the red color is a result of all that Fe(II) produced by bacteria,“ Anshar says. “When the Fe(II)-rich water reaches the surface, the Fe(II) is in the air. The Fe(II) acts with oxygen in the air to make Fe(III) compounds that are of sort like this. That’s the source of the red color.”

The microbes are remarkably similar in nature to species found in marine environments, leading to the conclusion that the populations under the glacier are the result of a large number of organism that once occupied a food or sea that received sunlight.

Many of these marine lines likely declined, while others adapted to the changing environment. The Taylor Glacier advanced, sealing off the system under a thick ice cap.

In the paper, however, Milukas and her colleagues argue that the data that suggest the terrorism-related fine scales of photosynthesis are far more exotic and more adaptable — than the early explorers thought.

One of the red color is a result of all that Fe(II) produced by bacteria,“ Anshar says. “When the Fe(II)-rich water reaches the surface, the Fe(II) is in the air. The Fe(II) acts with oxygen in the air to make Fe(III) compounds that are of sort like this. That’s the source of the red color.”

The microbes are remarkably similar in nature to species found in marine environments, leading to the conclusion that the populations under the glacier are the result of a large number of organism that once occupied a food or sea that received sunlight.
thursday, April 30
asu.edu. phone directory. send information to judith smith
and on the first of each month only. building abstraction
of research and sponsored projects administration. informa-
tions for ASU events, visit the web at http://events.
au.

Meetings
[0x0]A p r i l 24, 2009
Friday, April 24
Science, speaks on “problems, paradigms and pleasures: lectures, west campus. call for information
on April 25, 5:30-7:30 p.m., discount. sponsored by
and on the first of each month only. Building ab-

4-5 p.m., Goldwater Center

Friday, April 24
Science, speaks on “problems, paradigms and pleasures: lectures, west campus. call for information

March 25
Mission,” Wisconsin-Madison. sponsored by Center for biological

“Calculated Loss: Infant Mortality as a Reproductive

Lectures

Humanities and Political Conflict – Institute for Hu-

Monday, April 27

“screening of “Handmade Nation,” 8-5 p.m., behind

Tuesday, April 28

“Oblivio Gate,” which won the Crab

“Handmade Nation,” 8-5 p.m., behind

Sunday, April 26

Lecture Series, 7:30 p.m., memorial union (Mu) Pima

Tuesday, April 28

Last Lecture Series, 7:30 p.m., memorial union (Mu) Pima

Tuesday, April 28

Art entrepreneurship lecture, 3 p.m., Lyceum theater

Wednesday, April 29

Working with the Sensory Environ-

“how to understand and resolving historical and contemporay

“i do have some new poems com-

Thursday, April 30

“Finally Second for Families at the ASU Art Museum,”

“Oblivio Gate,” which is a collection of poems about an Alzheimer’s patient; he also is a look at memory

Saturday, May 2

“First Second for Families at the ASU Art Museum,”

Last Lecture Series, 7:30 p.m., memorial union (Mu) Pima

From March 25 to April 28, ASU students and those who have earned graduate

the Virginia g. Piper Center for Creative


“i saw this happening in my grand-

to understanding and resolving historical and contemporary

though his newly published book, “Oblivio Gate,” is a collection of poems about an Alzheimer’s patient; it also is a look at memory and how it works, plus a look at the self, family and relationships.

thursday, April 30

“Oblivio Gate,” which is a collection of poems about an Alzheimer’s patient; it also is a look at memory and how it works, plus a look at the self, family and relationships.

thursday, April 29

retirement reception for Michael Hagelberg, 1:30-3:30 p.m., memorial union (Mu) Alumni Lounge (202). Hagelberg has been an agent for the Office of Research and Publications for more than 23 years. Information: (480) 985-2787.

“Screening of “Handmade Nation,” 8-5 p.m., behind

Monday, April 27

“Screening of “Handmade Nation,” 8-5 p.m., behind

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

“Fisherman's Son,” which is a collection of poems about an Alzheimer’s patient; it also is a look at memory and how it works, plus a look at the self, family and relationships. Nevin says.

“i do have some new poems com-

French for use in his poems, and he

though Nevin tried to not write poems about memory, they kept com-

Though Nevin tried to not write poems about memory, they kept com-

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

creativity, and he is in many of them,” he

thursday, April 30

“i do have some new poems com-

thursday, April 30

But when his wife read it, he ex-

“i do have some new poems com-

Book takes poetic look at Alzheimer’s

By judith smith

 Though Nevin tried to not write poems about memory, they kept com-

at a writer’s retreat in Maine, for ex-

“i do have some new poems com-

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

nevin has received several Pushcart

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

“i do have some new poems com-

nevin has received several Pushcart

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

nevin has received several Pushcart

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.

nevin has received several Pushcart

thursday, April 30

“First Second for Families at the ASU Art Museum,” 11 a.m.-3 p.m., ASU Art Museum. For children ages 4-12. Creative fabrics with all materials provided. Information: (480) 965-2787.
**Arizona's earliest female politicians: Tough and independent**

By Judith Smith

Though Arizona was the last state in the "lower 48" to be admitted to the United States, it was the first of the 48 states to elect a woman to represent the state in the U.S. Senate. And it was one of the first states to see large numbers of women run for office – women who were not just "token" politicians filling the seats of their deceased husbands. These were some of the surprises that Heidi Osselaer, a faculty associate in the Department of History, found as she was doing research for her newly published book, "Winning Their Place: Arizona Women in Politics, 1883-1950" (University of Arizona Press). The book is the first comprehensive look at the participation of women in the state's early politics. It examines the lives of Arizona’s earliest female politicians: Tough and independent women – just like the intrepid female frontier politicians. She came to Arizona as a child in 1893. The poverty-stricken family lived in a tent in the desert for many years, and she worked as a railroad "flower girl." "I feel like I was trying to put a giant puzzle together. I would find campaigns in the old newspapers and go to the census records to try to find biographical information. I also looked at obituary files." As she gathered information, she built a database on "hundreds of women," Osselaer says, adding, "I learned who was running, from where.

Nellie Bush represented Yuma County for seven sessions in the Arizona Legislature. The names began to take life, yielding snapshots of the intrepid female frontier politicians. They included:

- **Nellie Bush**, who dove into a Model T and collected and recorded. She made signs so people wouldn’t get lost in the desert.
- **Rachel Berry**, a Mormon woman who represented Apache County, and who had to make the long and arduous journey to the Arizona Capitol by horseback.
- **Francois Willard Mundis**, who led the campaign for suffrage to victory in 1912 and was elected to the Arizona Senate in 1914.
- **Midge Udall**, who teamed heads when she rode a horse in a 1933 suffrage parade in New York.
- **Anastasia Collins Frenshmel**, the first woman to be elected a state auditor in the country, in 1926, who was in high school when her mother died, leaving her to take charge of her seven younger brothers and sisters.

Osselaer learned that many of the women who ran for public office in Arizona’s early days were alone.

"A lot of people came to Arizona to start over," she says. "Women came from abusive marriages, and there were a lot of young widows here, from mining and ranching accidents." Most of the female candidates worked outside the home because of economic necessity, Osselaer says.

"This was a very poor frontier, and these women – many of them second-generation – were working to make ends meet," she says. "The women here rose to fame because of their own talents." One of the keys to getting women elected to office in Arizona was their backing by the Arizona Federation of Business and Professional Women’s Clubs (BPW), a group founded in 1921 to sponsor voter registration drives, develop community programs and offer scholarship funds to young women.

BPW members, as opposed to members of the older Arizona Federation of Women’s Clubs (AFWC), "defined themselves not in relationship to their husbands, but by their own professional accomplishments," Osselaer says. "These clubs really stepped in and supported them, and raised money for them.

Now that this "sacred trust" has been put together, "we finally have an image of what it meant to be a female politician in early Arizona," Osselaer says. "These were tough, independent women, mostly raised in the West, who slowly broke down the barriers."

"They were women, with such names as Mundis, Greenway, Bush, Berry and O’Neill, patterned the way for women with such names as Nappier-Ball, Baylos, Springer and Cramer-Hughes."

The latter five, of course, are the "Fab Five" – Janet Napolitano, Barbara Bush, Janet Napolitano, Orrin Hatch, who were sworn in Jan. 4, 1999, as the top executives in Arizona – the first time in U.S. history that women had been elected to the five offices in any state. And they were sworn in by Sandra Day O’Connor – an Arizona and the first woman to be seated on bench of the U.S. Supreme Court.

\*Exhibitions

**ArChIVes AND pubLIC reCorDs.**

- **Friday, May 1**
  - The Dance-A-Thon! 7:30 p.m., Paul V. Galvin Playhouse. Six students from most extraordinary extra curricular work created by the faculty students and guest artists of ASU Herberger College Dance. Admission: 7:30 p.m., May 2 and 3, 2 p.m., May 3.

**Arizona Contemporary Music Ensemble, 7:30 p.m., Katin Concert Hall.** This ensemble performs contemporary jazz-gard music written in the last two decades.

**MFA Collaboration Project, 7:30 p.m., Studio 133, Nelson Fine Arts Center.** Every three years, a select group of performers, directors, writers and designers across the nation gather in Tempe to create exciting theater while earning their master’s degrees. Also: 7:30 p.m., May 2, 2 p.m., May 3.

**Saturday, May 2**

- Contemporary Percussion Ensemble, 7:30 p.m., Katin Concert Hall. Under the direction of J.B. Smith, the ensemble examines percussion literature by major composers, as well as music by emerging composers of progressive and experimental percussion music.

**Sunday, May 3**

- African Drum Ensemble, 7:30 p.m., Student Services Lawn (weather permitting). The ensemble, directed by Mark E. Suniklet, performs rhythms drawn from the many cultures of Africa and its neighbors.

**Monday, May 4**

- ASU Women’s and ASU Men’s Choruses, 7:30 p.m., First United Methodist Church of Tempe, 215 E. University Dr., Tempe.

**Tuesday, May 5**

- Tuesday May 5 and Too, 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. Featuring: ASU pianist Baruch nervous and sampling of student recital. Also: 7:30 p.m., May 2, 2 p.m., May 3 and 7:30 p.m., May 4.

**Wednesday, May 6**

- *Guys & Dolls PianoFest*, 7:30 p.m., ASU Kerr Cultural Center, Scottsdale. Performing: Pianists Charles Lewis, Emmanuel Gouletis, Judy Roberts and Rachel Eckroth. Co-presented with Jazz in AZ.

**Defenses**

**Arizona State University.**

- **Friday, May 1**
  - Ed. D. Defense: Mary Ann Matheny, Director of Educational Psychology and Counseling.

- **Saturday, May 2**
  - Ed. D. Defense: Dr. Pat Allen, Department of Educational Psychology and Counseling.

- **Monday, May 4**
  - Ed. D. Defense: Dr. Ethiopis, Department of Educational Psychology and Counseling.

- **Wednesday, May 6**
  - Ed. D. Defense: Dr. Patricia, Department of Educational Psychology and Counseling.

**Events and Performances**

- **Thursday, April 30**
  - Doo Wop Live Tour, 7 p.m., Mesa Arts Center, E. Main St., Mesa. Information: (480) 965-3434; ASU Kerr Cultural Center, (480) 596-2660.

- **Thursday, May 7**
  - First Thursdays, 5-6 p.m., Bioscience Institute II Lobby. A monthly social and scientific exchange designed to spark collaboration among ASU's scientific research community. Presented by: Leanne Nash, professor of anthropology, School of Human Evolution and Sociocultural Change. Information: Julie Korth, (480) 727-0686 or jkorth@asu.edu.

**Exhibitions**

- **ArChIVes AND pubLIC reCorDs.**
  - **Friday, May 1**
    - "Winning Their Place: Arizona Women in Politics, 1883-1950" (University of Arizona Press).
  - **Saturday, May 2**
    - "I Was Here: Arizona Women in Education," 7:30 p.m., Katin Concert Hall. Under the direction of J.B. Smith, the ensemble examines music literature by major composers, as well as music by emerging composers of progressive and experimental percussion music.
  - **Sunday, May 3**
    - African Drum Ensemble, 7:30 p.m., Student Services Lawn (weather permitting). The ensemble, directed by Mark E. Suniklet, performs rhythms drawn from the many cultures of Africa and its neighbors.
  - **Monday, May 4**
    - ASU Women’s and ASU Men’s Choruses, 7:30 p.m., First United Methodist Church of Tempe, 215 E. University Dr., Tempe.
  - **Tuesday, May 5**
    - Tuesday May 5 and Too, 10:30 a.m., ASU Kerr Cultural Center, Scottsdale. Featuring: ASU pianist Baruch nervous and sampling of student recital. Also: 7:30 p.m., May 2, 2 p.m., May 3 and 7:30 p.m., May 4.
  - **Wednesday, May 6**
    - *Guys & Dolls PianoFest*, 7:30 p.m., ASU Kerr Cultural Center, Scottsdale. Performing: Pianists Charles Lewis, Emmanuel Gouletis, Judy Roberts and Rachel Eckroth. Co-presented with Jazz in AZ.

**Editor’s note:** Defense lists can now be found on the Graduate College web site http://gradae.asu.edu/defence.
Jensen’s role at ASU expands to include duties as chief sustainability officer

(Continued from page 1)

Other partners include Sandia National Laboratories, Reliasoft, Salt River Project, Arizona Public Service, National Renewable Energy Laboratory, Spire Solar and Solan AG.

• Concentrator photovoltaics – Researchers at ASU and UA are collaborating on next-generation low-cost solar reflectors that can be used in solar energy generating systems.

• Nanofabricated films for photovoltaics – ASU, UA, Global Solar, General Plasma and Prism Solar are teaming up to enhance the capabilities of thin-film solar panels to significantly reduce the cost of electricity from solar panels.

Other partners include Adv pulse, All Optronics, Aerospace Corp. and Nanovoltix.

• AZ Smart – ASU, UA, Arizona Public Service and Salt River Project are teaming up to create a system of smart grid management and development – decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

Air solar storage technology for use when the sun is not shining.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.

• Viasol, Bright Source, Creata and develop decision-making software to help select future power generation station locations, storage sites and power lines throughout Arizona. Other partners include Viastar, Bright Source, Creatasoft and Tucson Electric Power.
Unlocking the Internet’s deep well of data

Yi Chen wants to improve the accessibility of Internet data for search-engine users. Internet search engines provide limited access to the Internet’s vast database because they are not designed to search the large amount of content that exists on the World Wide Web. "All of this information is there and often contains high-quality, useful data, but it is not readily available because it is not in HTML," Chen says. "My work will allow people to search these databases easily using simple keywords."

The NSF cites Chen’s work as a potentially transformative advance, because it would allow the user to access the boundaries between huge amounts of information that are stored in distinctly different modes. It would also overcome some of the problems of search engines such as Google by providing more detailed and accurate databases and methods of information retrieval.

Databases typically store highly organized raw data, which can be retrieved by specific database design queries. This optimization can make data management difficult for the trained user to interpret until the user is taught to understand the database schema and the optimization decisions made by the database designer.

Chen seeks to solve this problem with her simple keyword search engine. Her work promises to help people find information even if they are not familiar with how search engines could potentially no longer be restricted to a subset of information available in HTML documents.

Hannong Jiang’s research promises to deepen fundamental understanding of how nano-scale structures can be made to function and improve the effectiveness of various mechanical systems on a macro scale. That knowledge will enable discoveries in nanoscience and nanotechnology that may be broadly applicable in practical pursuits. Jiang’s work focuses on carbon nanotubes, particularly those with diameters of 30 nanometers or less. This category of nanotubes has certain unique physical properties leading to improved performance, such as weight, strength and conductance.

"When these proteins bind to their target sites, they undergo massive changes in molecular structure which could lead to broader applications of materials science," Jiang says. "My research aims to address how the folding, bending and binding are coupled during the transcription initiation and DNA replication."

Stronger materials 1 nanowire at a time

Hanqing Jiang’s research promises to deepen fundamental understanding of how nano-scale structures can be made to function and improve the effectiveness of various mechanical systems on a macro scale. That knowledge will enable discoveries in nanoscience and nanotechnology that may be broadly applicable in practical pursuits. Jiang’s work focuses on carbon nanotubes, particularly those with diameters of 30 nanometers or less. This category of nanotubes has certain unique physical properties leading to improved performance, such as weight, strength and conductance.

"When these proteins bind to their target sites, they undergo massive changes in molecular structure which could lead to broader applications of materials science," Jiang says. "My research aims to address how the folding, bending and binding are coupled during the transcription initiation and DNA replication."

Jiang’s work focuses on carbon nanotubes, a highly versatile material that can be used in a wide range of applications, from electronics to medicine. He has been working on developing new methods to control the properties of carbon nanotubes, which can be tailored to specific applications. His research has been supported by the National Science Foundation, and he has published numerous papers on the subject.

Using computers to help the visually impaired

Baoxin Li is working in the areas of computer vision, multimedia processing and statistical methods in visual computing. His research is focused on the development of new high school teaching methods and tools that will allow students in science, technology, engineering and mathematics to learn more effectively and efficiently. His research is supported by the National Science Foundation.

"When these proteins bind to their target sites, they undergo massive changes in molecular structure which could lead to broader applications of materials science," Jiang says. "My research aims to address how the folding, bending and binding are coupled during the transcription initiation and DNA replication."

Sodano’s method uses nanowires to form an interface that bonds and blends fibers – such as carbon, glass or polymer – with other materials. The effect of the nanowires gives the composite materials more strength, including better tensile strength and the ability to withstand weight and stress.

"Sodano’s work has the potential to form the first to show you can improve the structural performance of composite materials by using a nanowire interface," Sodano says. "Initially, the process only requires low temperatures to produce the interface – as opposed to traditional technologies that require high temperatures, which can damage the fibers and reduce the material’s strength. Sodano’s team wants to understand precisely what happens to the low performance that could lead to broader applications of materials science."

Graham selects TV assignments as ABC News on Campbell's criteria

"We can develop a system that people with visual impairments can easily access from their laptops at home or in the lab, so they can do everything themselves," he says. "Our research team is attempting to render representations of graphics usable by the visually impaired. One project is the development of software designed to "read" an image and render a tactile representation of that image."

Van der Vaart will develop and apply new computational techniques to understand the cause of these massive structural rearrangements to uncover the connection between the motion of the protein and the DNA, and to establish the structural origin of the coupled binding-bending-folding process.

"When these proteins bind to their target sites, they undergo massive changes in molecular structure which could lead to broader applications of materials science," Jiang says. "My research aims to address how the folding, bending and binding are coupled during the transcription initiation and DNA replication."

"We can develop a system that people with visual impairments can easily access from their laptops at home or in the lab, so they can do everything themselves," he says. "Our research team is attempting to render representations of graphics usable by the visually impaired. One project is the development of software designed to "read" an image and render a tactile representation of that image."

Van der Vaart will develop and apply new computational techniques to understand the cause of these massive structural rearrangements to uncover the connection between the motion of the protein and the DNA, and to establish the structural origin of the coupled binding-bending-folding process.

"When these proteins bind to their target sites, they undergo massive changes in molecular structure which could lead to broader applications of materials science," Jiang says. "My research aims to address how the folding, bending and binding are coupled during the transcription initiation and DNA replication."

"We can develop a system that people with visual impairments can easily access from their laptops at home or in the lab, so they can do everything themselves," he says. "Our research team is attempting to render representations of graphics usable by the visually impaired. One project is the development of software designed to "read" an image and render a tactile representation of that image."

Van der Vaart will develop and apply new computational techniques to understand the cause of these massive structural rearrangements to uncover the connection between the motion of the protein and the DNA, and to establish the structural origin of the coupled binding-bending-folding process.
April 24, 2009

Internships at ASU offer real-world opportunities for students

By Steve Des Georges

It’s a classic win-win situation played out in the halls and offices of businesses and organizations throughout the greater Phoenix area. Companies benefit because they are tapping into a pool of up-and-coming college students with unbridled enthusiasm and a plethora of new ideas, and said students receive a healthy dose of reality while experiencing life in that week-a-day world firsthand.

Across ASU, colleges and programs offer internship opportunities for students seeking a complement to their classroom education. Internships range from the enterprising (such as the most traditional – and, in a challenged economy, businesses are taking making over) to the more entrepreneurial to the more traditional – and, in a challenged economy, businesses are taking making over.

“We are very excited to have a relationship with ASU, and the standard has been very high,” says Fordham of Eliot-Joiner, where New College of Interdisciplinary Arts and Sciences applied computing major Ashley Reichelt is serving an internship since December. “These students bring a fresh face and are willing to help and do a lot of the work that doesn’t get done without them.”

“Ashley is learning what it takes to be a part of a professional team and how to interact with team members. She is learning real-life business issues and how to be a part of the solution.”

Reichelt is a student at ASU’s William Marcy School of Design in her major, says an internship such as the one she landed is more than just gaining experience in identifying a community need or issue in conjunction with ASU departmental, inter-departmental or multi-disciplinary teams.

“An internship can be more demanding than a college course. You are directly involved in creating a product, cleaning up an alleyway in Phoenix, providing data science to schools to increase understanding of hip-hop culture in Phoenix and local residents. This urban green project would be assessed for ASU’s Tempe campus as a way to address the many ways that ASU employees serve the university and the greater community.”

Full-time and part-time classified and administrative staff, academic and service professionals, and faculty members are invited to attend the event.

ASU President Michael Crow will address the assembly at 2:30 p.m. in the Memorial Union and will have the opportunity to speak with attendees before and after the address.

To attend, fill out an R.S.V.P. at the Web site www.asu.edu/hr/recognition/RSPV by May 5.

President’s Recognition Reception honors award recipients

By Linda Uhley

Recipients of the President’s Medal for Social Embeddedness and the top multiple SUN Award for Individual Excellence for 2008 were presented to ASU President Michael Crow at the President’s Recognition Reception and award ceremony April 7, in the office of Old Main on the university’s Tempe campus.

The awards and award winners include:

**SUN Award for Individual Excellence**

The SUN Award for Individual Excellence is a peer recognition award that provides specific and immediate recognition to fellow employees for demonstrations of individual excellence in such areas as creative activities, continuous improvement, forecasting cooperation, providing exemplary in-service training, and promoting ASU. During calendar year 2008, more than 2,400 SUN Award certificates were presented to ASU employees.

Four individuals were selected as ASU’s 2008 top multiple SUN Award recipients. They are:

- Capital Equipment, Department of Student Engagement
- Hwa-Wei “Dave” Lee, University Technology
- Sue Mealey, Department of Electrical Engineering
- Lisa Varela, Facilities Management

**President’s Medal for Social Embeddedness**

Two teams received the President’s Medal for Social Embeddedness. This award recognizes ASU employees who work with multi-disciplinary teams that have demonstrated excellence in identifying a community need or issue and fostering meaningful, mutually supportive partnerships with Arizona communities to implement successful solutions.

The two teams are:

**Arizona/Native Vote – Election Protection**

Since the Indian right to vote has been recognized, Indian voters have faced many challenges in accessing the polls and enfranchising the fundamental right to vote. Even after Indians were granted citizenship in 1924, the right to vote was not extended to Indians until 1948, and English literacy tests prevented most Indians from participating in elections until 1970. Since then, many Indians have participated in political events, but the most recent assault on the Indian right to vote is the Arizona voter identification law, which reduced the sharp decrease in Indian votes in 2006.

In 2008, the Indian Legal Clinic at the College of Law partnered with the Native American Bar Association of Arizona, the Inter-Tribal Council of Arizona, the Arizona Indian Gaming Association, the Congress of American Indians to develop the Arizona Native Vote – Election Protection Project. This project provides a resource to Arizona tribes and individual tribes to ensure that they are able to meet the polls and to prevent voter disenfranchisement. Fifty-five tribes in Arizona have participated in the project in the last election, helping them achieve a record year for voter turnout.

ASU team members include:

- Anne Marie Downs, Temple D’O Conner College of Law
- Derek Byers, ASU law student
- Sarah Cedarleaf, ASU law student
- Mandy Carney, ASU law student
- Alex Dias, D’O Conner College of Law
- Patty Ferguson-Bohman, Sandra D’O Conner College of Law
- Khil Grierson, ASU law student
- Joe Kerne, ASU student
- Ryan McLeish, ASU law student
- Nicholas Nakata, ASU student
- Judy Nichols, Sandra D’O Conner College of Law
- Laurie Ralston, Sandra D’O Conner College of Law
- Kate Rosier, Sandra D’O Conner College of Law
- Jami Cresson, ASU law student
- Naomi White, ASU law student
- Jennifer Williams, Sandra D’O Conner College of Law
- Community partners include:
  - Winona Benally, Native American Bar Association-Arizona
  - Diandra Benally, Native American Bar Association-Arizona
  - Jocelyn Billy, Navajo Nation
  - Loren Badrikkat, National Congress of American Indians-Native Vote
  - Chris Clark Descheenie, Native American Bar Association-Arizona
  - Luzan Demonstrin, Navajo Nation
  - Judy Dovorkin, Native American Bar Association-Arizona
  - Rechon Elias, Gila River Indian Community
  - Jennifer Farley, Native American Bar Association-Arizona
  - Joseph Flea, Hualapai Tribe
  - Rosann Gallagher, Native American Bar Association-Arizona
  - Karatsataew Gilbert, Native American Bar Association-Arizona
  - Kam Harritun-Tilek, Election Protection Coalition
  - Joann Hareen, Navajo Nation
  - Jonathan Howard, Arizona State Bar
  - Jonathan Jutziem, Tohono O’odham Nation
  - Jackie Johnson, Native American Bar Association-Arizona
  - Musarina Kahn, Navajo Nation
  - Ruth Khalus, Native American Bar Association-Arizona
  - Sarah Kendal, Native American Bar Association-Arizona
  - Travis Lane, Inter-Tribal Council of Arizona
  - Peter Larson, Native American Bar Association-Arizona
  - Anthony Lee, White Mountain Apache Tribe
  - Jim LeValley, Inter-Tribal Council of Arizona
  - Jennifer Williams, Sandra Day O’Connor College of Law
  - Perry Riggs, Native American Bar Association-Arizona

- Kristen Robinson, Native American Bar Association-Arizona
- Ed Rubacha, Arizona State Bar
- James Searcy, Native American Bar Association National Congress of American Indians-Native Vote
- Albert Tippeconnick, Interm-Tribal Council of Arizona
- Steve Tila, Native American Bar Association-Arizona/San Carlos Apache Tribe
- Nadine Willhaimen, Native American Bar Association-Arizona
- Nolan Wilson, National Congress of American Indians-Native Vote

The Graffiti Alley Community Engagement Project

The Graffiti Alley Community Engagement Project, also known as “City Disobedience,” is a collaborative effort between the Herberger College of the Arts, the School of Music, local graffiti and hip-hop artists, future researchers, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, businesses, business...