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Monitor Newsletter September 15, 2008

Bowling Green State University

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State grant boosts next-generation energy research

A new grant from the Ohio Research Scholars Program (ORSP) will support progress toward creating the next generation of photovoltaics—the direct conversion of sunlight to electricity—as well as the next generation of fuels and energy-efficient lighting, now being developed by BGSU and the University of Toledo.

Both universities have been deeply involved in the alternative energy arena for many years; the grant strengthens the “photovoltaics cluster in the region by leveraging existing research activities at the universities,” according to the Ohio Third Frontier Commission.

BGSU researchers Drs. Felix Castellano and Pavel Anzenbacher, chemistry and photochemical sciences, will use the \$1.7 million they will receive of the overall \$8.9 million ORSP grant to bring two research professors to their labs for the five-year duration of the program, and to assist with other associated operating expenses.

An important goal of the program is attracting talented scientists to campuses and reversing the exodus of talent from the state. “That’s how you grow,” Anzenbacher said.

“The program is directed at energy-relevant projects: producing and utilizing energy more efficiently,” Castellano said. “The grant builds on existing strengths and infrastructure.”

BGSU, UT and Ohio State University are all sites of the Center for Photovoltaics Innovation and Commercialization (PVIC). The center is “very infrastructure-heavy,” providing the state-of-the-art hardware and facilities, according to Castellano and Anzenbacher. The Northwest Ohio Innovators in Thin Film Photovoltaics grant gives support for personnel and operating costs.

Castellano’s research centers on energy-relevant technologies including photovoltaics, and methods of utilizing solar energy to produce chemical fuels such as hydrogen from renewable sources.

Anzenbacher’s research group focuses on developing organic, light-emitting materials, which use energy much more efficiently than traditional incandescent and phosphorescent tubes. “We’re working on solid-state technology to produce less expensive general lighting,” Anzenbacher explained of the more environmentally conscious technology. “Because a substantial portion of U.S. energy consumption is used for lighting, more efficient light sources lead to a lower demand for energy,” he said.

The lead faculty member on the grant is UT’s Dr. Robert Collins, the Nippon Electric Glass Endowed Chair in Silicate and Materials Science in the physics and astronomy department. Dr. Sylvain Marsillac, also a physics faculty member, is the co-lead at UT and assisted with critical aspects of the proposal, identifying the mechanisms through which new personnel can link to and collaborate with the Ohio photovoltaics industry.

With the new funding, UT will be adding three new faculty members to PVIC for fall 2009. “The Ohio Department of Development is putting its confidence in us that we help to support and expand the solar industry in Ohio,” Collins said, pointing out that overall funding for the photovoltaics center is \$18.6 million, with nearly \$30 million in cost-share commitments.

The BGSU and UT teams have partnered many times before. “There’s a long history of working together and individual expertise we can take advantage of,” Castellano said.

Because of complementary work on different aspects of photonics, or how light interacts with molecular and solid-state systems, Collins said, “there’s a nice overlap and opportunity to collaborate.” The BGSU-UT collaboration was one of only two proposals from Ohio to

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“get the green light from both the National Academy of Science and the Ohio Department of Development,” he noted.

“BGSU is doing world-leading scientific research but it also links well into the regional strengths in glass and polymers and promotes regional economic development,” Collins said.

As part of the Third Frontier project, the ORSP provides grants to strengthen and increase the number of clusters of research excellence, led by Ohio’s academic institutions that support regional economic priorities. Jointly funded and administered by the department of development and the chancellor of the board of regents, the program will achieve this through “aggressive investment in the attraction of senior research talent and related facilities and equipment, and promotion of unique collaborations needed to build and sustain scientifically and commercially promising lines of research.” The ORSP is placing high priority on building a critical mass of research scientists and engineers in five targeted technology/research focus areas.

“It’s great to be working in a state that is actually investing in these technologies,” Castellano said, noting that Ohio is somewhat unusual in that regard.

The BGSU-UT collaboration grant is one of 10 funded by the program for more than \$143 million.

Barbara Moses named first Bailey endowed professor in mathematics

As a BGSU student in the 1960s, James Bailey was inspired by his mathematics professors. Years later, when he had achieved considerable success as a banking executive, Bailey was again inspired by a BGSU math professor—Dr. Barbara Moses.

A talk by Moses on the importance to society of math education and teacher preparation—and of countering the disturbing decline in interest in math and science—helped shape the direction of a \$1 million gift that Bailey, his wife, Judy, and their daughters made to BGSU in 2004. Of the \$500,000 cash portion of the donation, \$250,000 is designated for an endowed professorship in mathematics. (See www.bgsu.edu/offices/mc/monitor/pastissues/04-05-04/bailey.html)

When determining who should be the first recipient of the Bailey Family Endowed Professorship in Mathematics, Bailey said, “There was no one more deserving of the honor than Dr. Barbara Moses.” Bailey was on campus Sept. 4 at the naming ceremony.

A highly regarded teacher and specialist in math education and teacher preparation for middle and senior high school, Moses was the founding director, in 2002, of COSMOS (Center of Excellence in Science and Mathematics: Opportunities for Success) at BGSU. The collaborative center is designed to help produce more and better-prepared math and science teachers. Bailey noted that “northwest Ohio now boasts one of the strongest math-science centers in the state of Ohio.”

An appreciative Moses responded, “Not only are you rewarding me, but you are rewarding BGSU. This serves as a catalyst to make more of this happen. BGSU is becoming known for its math and science education. With BGSU having this position dedicated to math education, our program has become that much more respectable.”

Moses received a bachelor’s degree in mathematics education from Carnegie-Mellon University and master’s and Ph.D. degrees from Indiana University. After two years on the faculty at Indiana State University at Evansville, she came to BGSU in 1978 and was promoted to full professor in 2003.



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During many years of working with colleagues in K-12 math and science education, Moses and her teams have received more than \$1.7 million in external funding. Moses' research focuses on visualization in algebraic thinking, and she is co-author, with retired faculty member Dr. Alice Calderonello, of the soon-to-be-published book *Algebra for Teachers*.

Sparking achievement

"Because of our family's good fortune, we have been able to support causes in which we believe," Bailey said. "When we were deciding what to support, one of my daughters said, 'Don't just start a scholarship, because it affects just one person.'

"The result was that the family established the endowed professorship in mathematics education (at BGSU) and an elementary program in Bridgeport, Conn., inner-city schools that teaches teachers. We think we can have a wider spread of influence across the country by impacting the teachers of math. We wanted to raise the level of math education, not just at BG but to reach out to the rest of the world by teaching the teachers."

At their 2004 gift announcement, Bailey explained that he and his family targeted math education specifically because "teachers have an underappreciated skill. Teachers have the opportunity to turn people off or turn people on." He recalled that he had gotten a C in his first math class at BGSU but then had a great professor "who made all the difference in the world."

At the Sept. 4 event, he said his BGSU experiences were "the foundation of whatever successes I have had."

Those successes have been many. The former executive vice president of Citibank's North American consumer bank responsible for the branches, mortgage and credit card businesses, he retired as executive vice president in 2000. Until 2003, he was a consultant in such areas as consumer marketing and financial modeling, and led a team that recommended a restructuring of the Bank of China as China prepared to enter the World Trade Organization.

From 2003-07, Bailey was chief operating officer of U.S. Trust and a member of the executive committee at Schwab.

He has maintained a strong relationship with BGSU, returning in 2007 to co-teach a history class with Dr. Donald Nieman, former dean of the College of Arts and Sciences. A member of the BGSU Foundation Board, he is also on the search committee for the University's next president.

Move-in weekend a boon for BGSU recycling

Move-in weekend was sunny and hot but, from at least one perspective, it was also "a perfect storm."

That's Duane Hamilton's assessment of the conditions for collecting recyclable cardboard when BGSU students are moving into campus residence halls for fall semester. The amount of the haul from this move-in weekend, Aug. 23-24, isn't known yet, said Hamilton, director of campus services for facilities services. But if history is any indication, it's going to be big.

Last year, about 43,000 pounds of cardboard were collected for recycling on the same weekend. Since 1994, BGSU's average annual cardboard collection has been roughly 432,000 pounds, meaning that, in 2007, one weekend's worth of cardboard accounted for 10 percent of the total for the year.

And that 43,000-pound figure was even down from 2006, when 56,000 pounds were picked up as students moved in. "We're starting to see less," Hamilton said, "as people have moved to more sustainable, reusable storage containers." He pointed in particular to plastic contain-



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ers that offer uniform size, sturdiness and the ability to be stacked.

But plenty of volume is still provided by the cardboard packaging of new items that students bring to college, he added, citing futons, refrigerators, microwave ovens and computers as examples.

Nearly 20 stations for cardboard recycling were posted around campus for move-in weekend. The collection was taken to Facilities Services space across from the Wood County Airport, where some has been loaded into roll-off containers and a portion has been hauled away. The material has multiple buyers, but the University deals mainly with a couple recyclers in Toledo. From there, Hamilton said, the cardboard "goes all over the world."

Scott Euler manages the recycling program, and several students work on the crew year-round, he said, noting that Facilities Services staff members who collected cardboard were among more than 100 who helped with move-in weekend overall.

Over 6 million pounds (3,000 tons) of cardboard has now been recycled at BGSU since 1994; during that same period, total recycling has reached 25.3 million pounds, or about 12,671 tons, of material.

"Recycling represents about 30 percent of our total waste on campus," Hamilton said, pointing out the savings in tonnage going to the Wood County Landfill. "The extent is pretty significant."

'Our Inner Ape' lecture to explore biological basis of character

When people do evil things, such as when they commit genocide, we call them "animals." But when they act altruistically, we attribute it to their noble morality and call them "humane."

Both sides of human nature, however, are tied to our biology. This will be the topic of Dr. Frans de Waal in his Harold McMaster Visiting Scientist lecture "Our Inner Ape: Human Nature as Seen by a Primatologist." De Waal will explore the duality of human nature by looking at our two closest primate relatives, the chimpanzee and the bonobo. He will also share the latest findings of the Living Links Center on communication, cooperation, the sense of fairness and animal empathy and culture.

Hosted by the College of Arts and Sciences, his talk will be held from 4-5 p.m. on Sept. 23 in the Bowen-Thompson Student Union Theater and is free and open to the public. A reception will follow in the Ingram-White Castle Foundation Lounge outside the theater.

Known for his work on the social intelligence of primates, de Waal is the director of the Living Links Center at the Yerkes National Primate Center in Atlanta and the C.H. Candler Professor in the psychology department at Emory University. His first book, *Chimpanzee Politics* (1982), compared the schmoozing and scheming of chimpanzees involved in power struggles with that of human politicians. Ever since, de Waal has drawn parallels between primate and human behavior, from peacemaking and morality to culture. His scientific work has been published in hundreds of technical articles in journals such as *Science*, *Nature* and *Scientific American*. His popular books—translated into 15 languages—have made him one of the world's most visible primatologists. His latest books are *Our Inner Ape* (2005, Riverhead) and *Primates & Philosophers* (2006, Princeton).

He has been elected to the U.S. National Academy of Science and the Royal Dutch Academy of Sciences. Time magazine recently named him one of the world's 100 most influential people.

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Connected by construction

It was much more than a simple game of golf when more than 130 construction management students, alumni, faculty and professionals gathered for the second annual Student Construction Management Association Golf Outing Sept. 5 at the Forrest Creason Golf Course.

The day was also an opportunity for the construction technology program to build relationships with construction industry representatives and alumni, and for students to network with professionals, according to Travis Chapin, technology systems. In addition, upwards of \$9,000 was raised for the SCMA during one of the largest BSGU golf outings.

IN BRIEF

'Nixon Tapes' author Stanley Kutler speaks on the Constitution

In honor of Constitution Day this Wednesday (Sept. 17), Dr. Stanley Kutler, author of *Abuse of Power: The New Nixon Tapes* (Free Press, 1997), will be on campus to speak about "The Living Constitution."

Kutler, a 1956 graduate of BGSU, will give his free talk at 6:30 p.m. in 207 Bowen-Thompson Student Union. His talk is sponsored by the College of Arts & Sciences and the political science department.

Abuse of Power resulted from his successful lawsuit against the National Archives and Nixon to force the release of the long-suppressed tapes. He has written widely in a number of fields of American history, particularly concentrating on American constitutional history and the 20th century and is the author of a number of major books.

Kutler has been a Guggenheim Fellow and invited scholar and Fulbright Fellow in several international universities. He has appeared as a commentator on National Public Radio, as well as on NBC's "Today," "Nightline" and other television programs. He also has worked as a consultant on a number of film projects, most recently as the historical advisor for the Emmy-winning BBC documentary "Watergate." He was advisor for the Showtime film "The Day Ronald Reagan Was Shot." His play, "I, Nixon," now is under consideration for production in 2009.

In addition to Kutler's talk, to commemorate the historic day in 1787 when 39 delegates to the Constitutional Convention signed the U.S. Constitution, BGSU's Office of Governmental Affairs will sponsor the distribution Wednesday of free pocket Constitutions to faculty, staff and students in the lobby of the Bowen-Thompson Student Union from 10 a.m. to 2 p.m., or while supplies last.

Learn about CSS Campus Community and Admissions 'go-live' at town hall

In preparation for the BG@100 Campus Solutions (CSS) Campus Community and Undergraduate Admissions "go-live" scheduled for Sept. 22, everyone is invited to attend a town hall meeting Thursday (Sept. 18).

The session will focus on features and impact of the upcoming move of biographical and demographical data to CSS Campus Community as well as the move to processing undergraduate applications using CSS. BG@100 project team members will be available to share information and answer questions about the "go-live."

The meeting will be held from 1:30-2:30 p.m. in 107 Olscamp Hall. The BGSU Firelands community can participate by teleconference, in 1004 Cedar Point Center.



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Information on the BG@100 project is available at the project Web site at www.bgsu.edu/bgat100. Future town hall events are detailed at www.bgsu.edu/offices/cio/page52255.html. Questions may be directed to BGat100@bgsu.edu.

Festival Series opens with jazz violinist Regina Carter

The College of Musical Arts will open the 2008-09 Festival Series with the return of jazz violinist Regina Carter in the Kobacker Concert at 8 p.m. Friday (Sept. 19) in Kobacker Hall of the Moore Musical Arts Center. Carter performed to rave reviews on the 2002 Festival Series.

Carter and her group have brought audiences to their feet with exhilarating performances worldwide. Challenging preconceptions about the instrument, she combines dazzling technical proficiency and profound compositional and improvisational gifts with a fresh, aggressive approach and a multicultural perspective. In Carter's hands, the violin reveals both its melodic side and its potential for percussive expression.

Time magazine said, "Regina Carter creates music that is wonderfully listenable, probingly intelligent and, at times, breathtakingly daring ... taking the listener into the future of jazz." The Detroit native's influences range from R&B to East Indian as well as classical.

In December 2001, she became the first jazz musician and African-American to play the legendary Guarneri del Gesu violin formerly owned by composer Nicolo Paganini. In 2006, Carter was awarded the prestigious MacArthur Fellowship, nicknamed the "genius grant," in recognition of her exceptional creativity and the future she represents to the creative arts. She has performed with the Atlanta, Minnesota and Milwaukee symphonies and with multiple jazz and pop artists.

Just as prolific as her accomplishments on stage are Carter's performances on record. She has released five solo albums and has recorded with artists such as Patti LaBelle, Aretha Franklin, Mary J. Blige and Lauryn Hill.

Tickets are \$30, \$25 and \$18 in advance and \$33, \$28 and \$21 the day of the performance. For more information, call the box office at 2-8171 weekdays from noon-6 p.m.

CALENDAR

Monday, Sept. 15

Community Partnership Forum, focusing on Behavioral Connections' Victim Services, with Julie Broadwell, program manager, 10-11 a.m., Center for Teaching and Learning, 201 University Hall. To register, call 2-6898 or email ctl@bgsu.edu.

ICS Lecture, "Petty Despots: Rethinking Human Rights Discourse After the Cold War," with Neil Englehart, political science, 12:30 p.m., 201A Bowen-Thompson Student Union. Presented by the Institute for the Study of Culture and Society. For more information, call 2-0585.

Tuesday, Sept. 16

Tuesday Night Film Series, "Broken Blossoms, or The Yellow Man and the Girl," (U.S., 1919), starring Lillian Gish, 7:30 p.m., Gish Film Theater, Hanna Hall.

Wednesday, Sept. 17

Pre-Conference Workshop, in conjunction with the Conference on Media, War and Conflict Resolution, "Media and Educators' Roles in Peace and Justice Communication," 9:30 a.m.-3:30 p.m. A luncheon will be held from 12:40-1:45 p.m. For more information, visit www.bgsu.edu/offices/mc/page52480.html.

Constitution Day, copies of the U.S. Constitution will be distributed by the Office of Governmental Affairs from 10 a.m.-2 p.m., Union lobby.

Classified Staff Council, 10:30 a.m., 316 Union. A presentation on Flexible Spending Accounts and health-care plan changes with Donna Wittwer, human resources, will precede the meeting at 10 a.m.

Brown Bag Luncheon, "Cyber Sex Ed: Social Networking Sites and Sex Education for Young Women," with Erin Dietel-

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McLaughlin, rhetoric and writing, noon-1 p.m., Women's Center, 107 Hanna Hall.
Faculty Artist Series, Nathaniel Zeisler, bassoon, and Robert Satterlee, piano, assisted by Vasile Beluska, violin; Megan Ferguson, viola; Alan Smith, cello, and Kevin Schempf, clarinet, 8 p.m., Bryan Recital Hall, Moore Musical Arts Center.

Thursday, Sept. 18

Affirmative Directions Forum, "Exercising Your Rights: How to File Harassment or Discrimination Complaints," featuring an expert panel representing the offices at BGSU that provide complaint processing services to University students, faculty and staff, 1:30-3 p.m., 201 Union. Hosted by the Office of Equity and Diversity.

BG@100 Town Hall Meeting, learn about the Sept. 22 move to CSS Campus Community and Undergraduate Admissions, 1:30 p.m., 107 Olscamp Hall and 1007 Cedar Point Center, BGSU Firelands.

Office Ergonomics Training Session, with Bess Weaver, Environmental Health and Safety, 2-3 p.m., 2 College Park Building. Learn how to reduce the risk of repetitive motion (ergonomic) injuries on the job. Register at 2-2171 or <http://www.bgsu.edu/offices/envhs/page22440.html>.

Dissertation Defense, "Smart Polymer Materials," by Thilini Kuruwita-Mudiyanselage, photochemical sciences, 2 p.m., 154 Overman Hall.

International Film Series, "Vukovar—Final Cut" (Serbia, 2006), winner of the 2006 Sarajevo Film Festival's Human Rights Award, 7:30 p.m., Gish Film Theater.

Reading Series, with Margot Singer, award-winning author and assistant professor of English, Denison University, 7:30 p.m., Prout Chapel.

Student Composers' Forum, featuring works by students in the College of Musical Arts, 8 p.m., Bryan Recital Hall, Moore Musical Arts Center.

Friday, Sept. 19

Festival Series, The Kobacker Concert, with Regina Carter, jazz violin, 8 p.m., Kobacker Hall, Moore Musical Arts Center. Tickets are \$30, \$25 and \$18 in advance, and \$33, \$28 and \$21 on the day of the performance. To order, call the Moore Center box office at 2-8171.

Men's Soccer vs. IPFW, 2 p.m., Cochrane Field.

Women's Soccer vs. Detroit, 5 p.m., Cochrane Field.

Volleyball vs. Binghamton, 7 p.m., Anderson Arena.

Saturday, Sept. 20

Volleyball vs. Rice, 12:30 p.m.; vs. Hofstra, 7 p.m., Anderson Arena.

Sunday, Sept. 21

Men's Soccer vs. Saint Francis, Pa., 1 p.m., Cochrane Field.

Sunday Matinee, "Mon Oncle (My Uncle)" (France, 1958), with commentary by Dr. Jan Wahl, film historian, 3 p.m., Gish Film Theater.

Bowling Green Philharmonia, 3 p.m., Kobacker Hall, Moore Musical Arts Center. Tickets are \$7 for students and senior citizens and \$10 for other adults in advance, and \$10 and \$13, respectively, on the day of the performance. To order, call the Moore Center box office at 2-8171.

Continuing Events**Sept. 17-19**

Conference on Media, War and Conflict Resolution, featuring award-winning authors and academics, Union. (Pre-conference workshop will be held on Wednesday, Sept. 17). For more information or to register, contact Dr. Ellen Gorsevski at elleng@bgsu.edu or 2-1997, or visit <http://scs.bgsu.edu/mwcrConf/index.php>.

Sept. 18-20

Conference, "Ownership and Justice," 207 Union. Hosted by the Social Philosophy and Policy Center. For more information, call 2-2536.

Sept. 20-21

Women's Tennis, BGSU Invitational, 9 a.m., Keefe Courts.

Through Sept. 24

Art Exhibit, "Pure Intentions: Works on Faith and Childhood Dreams," by alumna Rachel Ackerman, Union Art Gallery. Gallery hours are 8 a.m.-9 p.m. Monday-Saturday and 10 a.m.-9 p.m. Sundays.

Through Sept. 26

Art Exhibit, "Images from *Sedna, Goddess of the Sea*," by Dr. Joel Rudinger, Little Gallery, BGSU Firelands, Gallery hours are 9 a.m.-5 p.m. Monday-Friday.

Through Oct. 5

Digital Printmaking Exhibition, "Perfect with Pixel," curated by Shaurya Kumar, art, Dorothy Uber Bryan Gallery, Fine Arts

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Center. Hours are 11 a.m. to 4 p.m. Tuesday-Saturday, 6-9 p.m. Thursdays and 1-4 p.m. Sundays.

Through Oct. 25

Art Exhibit, "V³: Variations in Vision & Video, Recent Works by Jud Yalkut," Willard Wankelman Gallery, Fine Arts Center. Gallery hours are 11 a.m.-4 p.m. Tuesday-Saturday, 6-9 p.m. Thursdays, and 1-4 p.m. Sundays.

JOB POSTINGS

FACULTY

Communication disorders. Chair. Call Roger Colcord, 2-7184. Deadline: Nov. 1.

English. Distinguished Visiting Writer. Call Kristine Blair, 2-7543. Deadline: March 16.

Labor Postings

<http://international.bgsu.edu/index.php?x=facinfohires>

Contact the Office of Human Resources at 419-372-8421 for information regarding classified and administrative positions. Position vacancy announcements may be viewed by visiting the HR Web site at www.bgsu.edu/offices/ohr/.

Employees wishing to apply for these positions must sign a "Request for Transfer" form and attach an updated resume or data sheet. This information must be turned in to Human Resources by the job deadline.

CLASSIFIED

On-campus classified:

www.bgsu.edu/offices/ohr/employment/BGSU_only/page11151.html

Off-campus classified:

[/www.bgsu.edu/offices/ohr/employment/cl_staff/page11145.html](http://www.bgsu.edu/offices/ohr/employment/cl_staff/page11145.html)

ADMINISTRATIVE

www.bgsu.edu/offices/ohr/employment/adm_staff/page11137.html

OBITUARY

Luida Alssen, 86, a professor emeritus of German and Russian, died July 23 in Germany. She taught at BGSU from 1962-85.

