IET Offers Two New Degree Programs: Commercial Photography and Cybersecurity

The Wonderful World of Photography

The commercial photography program at Southeast Missouri State University prepares students for the real world of developing and maintaining a career in photography and imaging technology, be it for advertising, editorial, stock, publication, or for owning, operating or working for a photography or imaging business.

The curriculum is multi-disciplinary with courses in art, business, lighting and software technology, entrepreneurship, design, printing, multimedia, copyright law for photographers, marketing, advertising, as well as intensive labs for developing a personal portfolio. A strong effort is made to focus on the student’s individual interests and talents during the program, which will result in the student’s developing a digital and a printed portfolio of images that reveals his or her strengths and interests.

Students are prepared for careers as photographers in diverse specialties from advertising to editorial to wedding photographers. Other interests include fine art and commercial printing technology; digital imaging software technology, including Adobe Lightroom; editorial photography; portraiture; and fields related to visual technology, one of the fastest growing technological fields. Beyond the beauty of the still photograph, students may also take courses in video technology, multimedia, and web design, which allow the student to be more marketable and prepared since the fields overlap and merge. Graduate courses should be offered by the year 2012.

Photography is a craft, and the standard of craft is high at Southeast. Students spend time in a state-of-the-art photography lab honing their skills and learning the mechanics of cameras, lighting equipment, and accessories, while learning the value, meaning and application of aesthetics and
visual communication, applied to their field of interest. Students have the opportunity to take a one-week intensive course at various locations of natural and historic beauty in the United States. Students’ recent visit to Yellowstone resulted in a book of their work. Plans are underway for the next challenging and exciting workshop to be held on the Maine coast next June.

Students may spend additional time in the darkroom by joining the Student Photography Association, a student-operated club that focuses on the craft of film photography and printing techniques.

The curriculum was developed to focus on the future of the field of photography and digital technology and how photographers and visual property managers must strive to maintain the standards of the craft of photography and the professional and ethical consideration of visual property when used for commercial use (even at a local level). While looking to the future, the long history of photography and its value to visual communicators and to fields in the sciences and technology are explored. If you enjoy expression via the still image, come see us at Southeast. For more information, contact professor Wendy Cooper at wcooper@semo.edu.

What is Cybersecurity?

According to the United States Computer Emergency Readiness Team, cybersecurity involves protecting information by preventing, detecting and responding to attacks. Society relies on the Internet for communication and to store personal, financial, health and government records. Securing these systems is critical to our privacy, economy and national security. As technology becomes more sophisticated, so do the means by which you can be attacked. This is where cybersecurity begins.

Why is cybersecurity important?

The growing number of attacks on our cyber networks has become, in President Obama’s words, “one of the most serious economic and national security threats our nation faces.” Cyber threats cost the economy approximately $8 billion per year and account for 1.8 billion attacks on the federal systems alone.

Southeast’s B.S. in Cybersecurity: Updates

In its first semester, the number of majors is quickly growing and cybersecurity is expected to be an outstanding addition to our leading programs in the Department of Industrial and Engineering Technology. In addition to valuable hands-on lab experience, the cybersecurity degree also incorporates several telecommunications and computer networking courses.

The leader of the cybersecurity program is Dr. Vijay Anand, and his qualifications include a Ph.D. in computer engineering with an emphasis in embedded security as well as extensive industrial and education experience with companies/universities including Motorola, Palm, Illinois Institute of Technology, and the University of Chicago. For more information, visit http://www.semo.edu/iet/academics/cybersecurity.htm.

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Racing Star Carlos Saldana Studies Engineering Technology

After three years of racing karts as a hobby, in 2005, Carlos Saldana began racing on the professional kart circuits of Panama. During this trajectory, Saldana experienced several victories. In 2008, “Carlitos” won his first national championship in the Tag Junior category, getting first place in six out of eight races. Carlos won the summer master championship also in 2008, which takes place in Chiriquí, a province by the border of Panama and Costa Rica, so racers from all Central America can assist. In 2009, Carlos could not race the Karting National Championship because he decided to take on a different challenge, The National Oratory Contest. This contest, organized and sponsored by Cable and Wireless and The National Government of Panama, gives more than $250,000 in prizes. Every year, more than 10,000 students try to win this competition in Panama. Carlos had never been part of any type of speech competition, but this did not prevent him from reaching his goal. After months of preparation, Carlos gave his speech, “Democracy, The Teenager Challenge”, in the provincial competition, winning first place and the honor to represent his province in the national competition. Professionals in different fields of speech skills trained the 10 representatives who went to the final. On October 25, 2009, Carlos impressed viewers and the 2,000 people in the audience.

In 2010, Carlos went a step further in his racing career by being part of the Formula 2000 Championship, which had nine races—all of them in different countries of Central and South America. Carlos received fourth place in a championship disputed by 20 racers. He also won the National Karting Championship, but this time in the fastest category of Tag Junior. Around 25 racers, some of them from Costa Rica and El Salvador, were part of the championship.

Carlos is 18 years old and an engineering technology major. Carlos says that all these accomplishments are just because he wanted them to happen. But he also argues that if you believe in yourself, everything is possible. Carlos now sees his life in this way and encourages others to believe in themselves.

Other Student Notables

Dale Farrow, a junior at Southeast Missouri State University studying construction management and facilities management, was featured in the August 7-13, 2011, issue of American Profile magazine, in an article about older students returning to and pursuing higher education.

Nicole Wetherholt, Andrew Schmidt and Clayton Legrand received the top prize for the Student Interactive competition at the Annual National ADDY awards. The competition includes universities in Kentucky and Illinois.

If you have Student News, please email to iet@semo.edu.
Au Revoir by Wendy Cooper

All of Noranda’s primary aluminum production occurs at the New Madrid smelter, which produces approximately 263,000 metric tons of primary aluminum annually, at full capacity, accounting for approximately 15% of total 2010 United States primary aluminum production. The smelter, which is located near the midpoint of the Mississippi River, also includes a fabrication facility that converts molten aluminum into value added products such as rod, extrusion billet and foundry ingot.

History
Formed in 1968, our smelter is located at a strategic mid-U.S. distribution point on the west bank of the Mississippi River, five miles south of the City of New Madrid in Southeast Missouri. The New Madrid complex came into production in four stages: The Rod Mill, supplied with purchased aluminum metal, started initial production in the fall of 1969. First aluminum metal was produced by the Reduction Plant on February 25, 1971. Phase II of the Reduction Plant was completed and metal production started in 1976. Phase III was completed and first metal tapped on July 29, 1983. Further improvements were added in 1999, including the single piece anode project and a second rod mill.

Part of the plant’s metal production is produced for the Rod Mill for conversion into aluminum rod used in the manufacture of electrical conductor products. The balance of metal output is sold to our customers in the form of extrusion billet, foundry ingot, and primary sow. During the third quarter of 2010, we announced that we had initiated steps to complete a $38 million capital project at New Madrid, which we expect to increase annual metal production by approximately 35 million pounds by 2013.

Noranda and IET
Noranda currently employs several IET graduates and has worked closely with the IET department. Noranda provides an appealing scholarship program to students in their maintenance areas including Mechanical and Electrical. They provide the successful applicant with his or her costs of tuition, books, and fees for attendance at Southeast or Three Rivers to pursue a degree in the fields of maintenance related to electrical and mechanical programs. Upon completion of their degree, Noranda offers the student a minimum four years of employment. Find out more about Noranda at www.norandaaluminum.com/index.php.

Special Guest | Noranda

“Death to the Different,” directed by Professor Peter Chanthanakone, assistant professor of industrial and engineering technology, was presented at the New York City International Film Festival on Aug. 22 and was accepted into the 2011 Kansas International Film Festival. More information can be found: www.kansasfilm.com. This marks the seventh acceptance at an International Film Festival for this film. It was assisted by five Southeast Graphics and Multimedia students, Michael Freezeland, Kirk Lohmann, Chris Northcutt, Tyler Paneitz and Osby Tomlin, who plays the voice of the dragon. For more information, visit: www.pixade.com.

Associate Professor David Baird took a group of students to Yellowstone as part of a week-long intensive study course. The photographs from the trip resulted a beautiful four-color, hardcover book designed and published by the class. The link to the book, which can be ordered from the site is www.blurb.com/search/site_search/checkout=Yellowstone+Through+Students+Eyes.

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Associate Professor Wendy Cooper’s photographs from her ongoing series In Between will be featured in an exhibition at the Rosemary Berkel and Harry L. Crisp II Museum at River Campus from October 21 through December 11. The Artist Talk and reception is Friday, November 4 and is free and open to the public. Visit www.semo.edu/news/index_37439.htm. Wendy’s website is www.wendycooperphoto.com.

Professor Vijay Anand’s presentation, “Trusted Computing Architectures for Mobile IT Infrastructure” was accepted for the Special Interest Group on University and College Computing Services (SIGUCCS) conference on November 12.