

SPECTRUM

Virginia
Tech
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

<http://www.spectrum.vt.edu>

VOLUME 25 NUMBER 31 FRIDAY, MAY 2, 2003

CESA set for greater role in university's educational strategies

By Susan B. Felker

Due to the importance of improved global understanding, university administrators are restructuring Virginia Tech's Center for European Studies and Architecture (CESA) in Riva San Vitale, Switzerland, with the goal of making the center part of the educational experience for more undergraduate and graduate students.

"CESA can be invaluable to the university community, so I have taken steps to consolidate its financial footing; to focus administration of its programs, to ensure better communications between the center and the Blacksburg campus, and to undertake a significant program of maintenance and improvement," said C. Clark Jones, vice provost for Outreach and International Affairs. The restructuring was prompted by the resignation late last year of former Director Thanasi Moulakis.

According to Jones, a three-pronged approach will be used to integrate CESA more effectively within the university. Ron Daniel, associate provost for undergraduate education, will assume additional duties as academic director of CESA; and Paul Knox, dean of the College of Architecture and Urban Studies, will serve as "lead dean." Daniela Doninelli will be on-site managing director, responsible for day-to-day operations in Switzerland. An operations liaison will work in the Office of International Research, Education, and Development under S. K. DeDatta, OIRED director. There is a resident advisor on site. The entire operation reports to John Dooley, the vice provost for Outreach and International Affairs.

As academic director of CESA, Daniel will devote 50 percent of his time to the center in Switzerland and will spend about half of that time on site in Riva San Vitale, including time at the beginning of each semester. He will be the

academic liaison, both between the center and the Blacksburg campus and between the center and other institutions in Europe. Daniel has been a supporter of study abroad since his years as an undergraduate architecture student at Virginia Tech when he traveled on a study-abroad program developed by Lucy and Olivio Ferrari, who were the first two directors of the center. "If a student can experience a semester abroad, it has the potential to be life-changing," he said. "CESA is truly a learning experience that embodies the university ideal of educating the whole person."

In reference to the opportunities ahead, Daniel said, "What excites me about this is that Paul Knox and I can work closely together with the faculty members and colleges to support existing programs as well as develop new ones. My frequent presence in Blacksburg will greatly enhance the opportunity to engage in needed preparation and follow-up on programs. A fun-

damental objective of the university will continue to be the development of CESA as a learning community." Daniel will also collaborate with staff members at Swiss universities in the region to enrich CESA's program offerings. He will devote the remaining 50 percent of his time at Virginia Tech to his position as associate provost for undergraduate education, a post he has held since 1997.

Virginia Tech's approach to CESA has primarily been to encourage faculty members to develop programs here in Blacksburg and then accompany students to Switzerland. On-site adjunct faculty members and guest speakers provide language instruction and some special programs. This process makes it easier to plan a semester, or partial semester at CESA as part of an on-going Virginia Tech program or course.

Knox will advocate within the deans' (See CESA on 3)

Info-technology innovator to leave university

By Clara B. Cox

Leonard A. Ferrari, vice provost for special initiatives, American Electric Power professor of electrical and computer engineering, and one of Virginia Tech's leaders in information technology, will leave the university at the end of May to become associate provost and dean of research at the Naval Postgraduate School in Monterey, California.

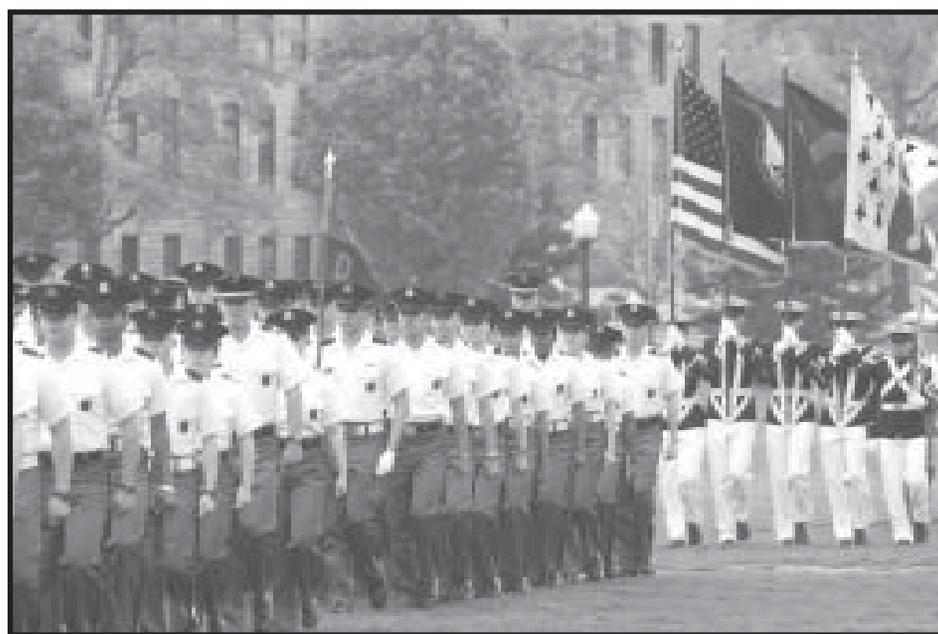
"Leonard's contributions to Virginia Tech are inestimable since we will continue to reap the benefits of his tenure here long after he is gone. We will miss his creative mind but wish him well as he embarks on this new endeavor. We look forward to future collaborations with him," said Mark McNamee, provost and vice president for academic affairs.

Ferrari, who has been recognized for his creativity, drive, and leadership, is noted for developing ideas for new projects and then building and working with teams to make them happen.

"I've had a great time here because the Virginia Tech administration has allowed me to propose and develop many new research and education programs. I prefer working at the beginning of a project, when there isn't a clear picture and we have to sort through it," said Ferrari, who is also acting director of the International Institute for Information Technology (IIIT).

Ferrari joined the Virginia Tech faculty in 1995 as head of the Department of Electrical and Computer Engineering (ECE). During his five years in that position, the department increased enrollments by nearly 50 percent, added master's and doctorate degrees in computer engineering, tripled its

(See INFO-TECHNOLOGY on 3)



ON REVIEW Members of the Corps of Cadets participate in the traditional Review Ceremony following last Friday's Founders Day program. (J. McCormick)

Spring football donations increase DuBose Fund amount

By Torye Hurst

The Virginia Tech Monogram Club has announced that donations to the Rayna DuBose Fund have topped the \$200,000 mark. The fund is used to assist with medical expenses which are expected to exceed more than \$1 million.

Two major fundraisers have been held by the athletics department since DuBose was stricken just over a year ago. The first fundraiser was conducted at Tech's October 19 homecoming football game against Rutgers where \$35,735 was collected during the game. The recently held spring football contest raised \$62,535 for the fund. Individual donations thus far have totalled \$109,520 to increase overall collections to \$207,790.

DuBose, a freshman center on the women's basketball team, was hospitalized at Montgomery Regional Hospital with meningococcal meningitis in April, 2002 just over a week after the Hokies had completed the season. The disease, though rare, is a bacterial infection that leads to inflammation of fluids surrounding the brain and spinal cord. The next day she was airlifted in critical condition to the University of Virginia Medical Center where she would remain for the next 97 days, including three weeks in intensive care, before being upgraded to fair condition.

In early May, she underwent a series of surgeries in which doctors amputated parts of

(See DUBOSE on 4)

Watford wins national engineering award

By Liz Crumbley

Bevlee Watford, associate dean for academic affairs and director of the Center for the Enhancement of Engineering Diversity in the College of Engineering, has been chosen by the American Society for Engineering Education (ASEE) to receive the 2003 Minorities in Engineering Award.

The award, which is sponsored by DuPont and includes a \$1,500 honorarium, recognizes outstanding achievements in increasing diversity in engineering programs. The award will be presented to Watford during ASEE's Annual Conference and Exposition to be held in June in Nashville, Tennessee.

Appointed director of diversity programs for the College of Engineering in 1992, Watford has developed numerous mentoring and training programs for students from the middle-school years through graduate studies. Her work has led to significant improvements in the engineering college's recruitment and retention rates for under-represented students.

In 1997 she accepted the position of associate dean—on condition that she could continue her work with diversity programs. Since that time, the Virginia Tech Student Engineers' Council, with Watford's assistance, has extended the mentoring programs that proved successful for under-represented students to include all engineering undergraduates.

Watford also has secured well over \$1.5 million in funding and support for undergraduate programs from a variety of sources including the General Electric Foundation, Intel, the Sloan Foundation, Corning Foundation, Honeywell International, Ingersoll Rand, and Microsoft.

Watford's leadership in improving educational opportunities for engineering students

(See WATFORD on 4)

ACTIVITIES

EVENTS

Friday, 2

Exams Begin.

Saturday, 3

Chamber Music, 8 p.m., Squires Recital Salon.

Sunday, 4

Chamber Music, 3 p.m., Squires Recital Salon.

Monday, 5

University Council, 3 to 5 p.m., 1045 Pamplin.

Wednesday, 7

Exams End.

YMCA Mornings, 9:30 to 11:30 a.m., Luther Memorial

Church.

Irish/Scotch-Irish heritage seminar, 9 a.m. to 4 p.m.,

Blacksburg Public Library community room.

Horticulture Plant Sale, 8 a.m. to 7 p.m., Horticulture

Garden.

With Good Reason, 7:30 p.m., WVTF.

Thursday, 8

Horticulture Plant Sale, 8 a.m. to 7 p.m., Horticulture

Garden.

Senior Day.

Friday, 9

Spring 2003 Grade Sheets Due.

International Graduation Reception.

VMRCVM Graduation.

VTCC Commissioning.

Senior Day.

Horticulture Plant Sale, 8 a.m. to 3 p.m., Horticulture Garden.

Graduate Commencement, 3 p.m., Cassell Coliseum.

University Commencement, 7:30 p.m., Lane Stadium.

SEMINARS

Friday, 2

MCBB, 12:20 to 1:10 p.m., Fralin auditorium: Robert Tabita, Ohio State.

MSE, 3:30 p.m., 100 Hancock: Benjamin Ruetter, Fred Ellis.

College of Natural Resources presents first wood-industry-management workshop

By Tara Laffey, University Relations intern

Lean manufacturing is simply a method of doing more for less. This is also the topic of the First Wood Industry Management Series Workshop that will be held May 5-6 at the Donaldson Brown Hotel and Conference Center.

Lean manufacturing systems are the most comprehensive of the popular production-management concepts because it addresses product,

process, and human-related issues in the production system.

The Center for Forest Products Marketing and Management is offering this workshop to help managers in wood-products businesses identify target-opportunity areas in their company for lean manufacturing, give a step-by-step guide for the implementation of "lean sys-

tems," and show how these steps will lead to significantly reduced manufacturing costs and increased competitiveness. This course is designed for upper- and mid-level production managers.

Earl Kline, a professor in forest-product manufacturing and a member of the Center for Forest Products Marketing and Management at

Virginia Tech, and Dan Cumbo, a research associate with the center, will be the course instructors. Kline has over 14 years of experience in industrial-systems engineering for wood-products manufacturing.

There is a registration fee for this workshop. For more information contact Bob Smith at 1-9750 or rsmith4@vt.edu.

We are the Foundation

Staff and Faculty Annual Fund raises over \$40,000

During the past year, the Virginia Tech Staff and Faculty Annual Fund has raised over \$40,000 toward various areas within the university, including its highlighted project, the Employees' Spouse and Dependent Scholarship Fund.

Support from Virginia Tech community has doubled the number of scholarships from last year, and between 13 and 16 scholarships valued at \$500 each will be awarded. Options for contribution include on-line giving available at www.givingto.vt.edu/facultystaff/, the option to give collectively now available for employee groups, and payroll deduction.

Computer-programming team places third in national contest

By Sally L. Harris

A team of students from Virginia Tech placed third in the country and 21st out of 70 teams from around the world in the ACM International Collegiate Programming Contest and also took first in the Java Challenge.

Those 70 teams competed in regional contests in 68 countries on six continents. Around the world, 3,850 teams competed in regional contests.

The Tech team trailed only Cal Tech and the University of California at Berkeley in teams from the United States. The competition challenged students to tackle a semester's worth of computer programming in one afternoon in a battle of logic, strategy, and mental endurance. The students on the winning Virginia Tech team were Adrian Porter, Alex Kalita, James Eckman, and reserve Joseph Gleason.

Virginia Tech had entered five teams in the Mid-Atlantic Regional contest this year and earned first, second, and third places out of 150 teams from New Jersey, North Carolina, Maryland, Pennsylvania, West Virginia, Delaware, and Washington, D.C. Those performances qualified them for the international

contest, sponsored by IBM and held this year in Beverly Hills, Cal., at the same time as the Oscars. For information about the types of problems the students had to solve in the competition, see <http://icpc.baylor.edu/icpc/Finals/IBMPressRelease2003.pdf>.

At the international competition, the Tech students named above placed first in the Java Challenge, a direct, real-time competition in which students wrote software to compete against each other in a rally-car race. Second and third places went to Louisiana State University and the University of Waterloo.

The teams were coached by Sallie Henry, a retired Virginia Tech computer-science professor, who received an award for her service to ACM-ICPC sponsored by IBM. Henry has coached the teams for 21 years and has been the director of the Mid-Atlantic Regional contest for 15 years.

The winners of the international competition were teams from Warsaw University in Poland, Moscow State University, St. Petersburg Institute of Fine Mechanics and Optics, and Comenius University in Slovakia.

Researchers investigating use of cultural ergonomics to prevent pesticide exposure

By Karen Gilbert

Pesticides are one of the most significant sources of poison to the human nervous system when misused. New research indicates that various cultures may misinterpret the directions provided by the manufacturers, thereby increasing the chances for mishandling.

The pesticide industry considers culture to be an increasing concern due to changing demographic trends—specifically, increases in migrant laborers and overall language diversity. As these trends continue, the opportunities for communication errors with pesticide use increase.

Previous studies indicate that the main reason pesticides are misused is because customers are unable to follow the instructions. If cultural differences in how one interprets language, color, and symbols are added to the scenario, then the problem may be exacerbated.

To reduce the possibility of pesticide exposure, two researchers are investigating the use of cultural ergonomics to prevent pesticide exposure. Tonya Smith-Jackson, assistant professor of human factors engineering and ergonomics at Virginia Tech, and Michael Wogalter, professor of ergonomics, from North Carolina State University, are working together under the auspices of a research contract from the National Institute for Occupational Safety and Health.

Using a pesticide takes more than just knowing what pest it will kill. It requires an understanding of how much to mix, how to apply it, what and protective gear to wear. "In an increasingly diverse and global society, communication ergonomics (the study of human-centered design of communications) is desperately needed to reduce the hazards associated with products and systems and the additional problems introduced by poor information design," Smith-Jackson said.

Examples of pesticide misuse include: using too much pesticide (either too strong of a concentration or applying it too often), using an

outdoor pesticide indoors, failing to follow the restricted time for re-entering an area after a pesticide has been applied, or failing to wear the required safety gear, such as rubber gloves and eye goggles.

Farmers and pest managers need to be able to read and understand pesticide labels before even opening the container.

The outcomes of this research will improve the design of risk communications aimed at reducing or eliminating hazards related to pesticide exposures among ethnic minority farm workers, which in turn, is likely to apply to all farm workers regardless of ethnicity. Smith-Jackson and Wogalter are interviewing Latino and European-American farm workers on the use of pesticides and precautionary behavior when working on farms.

The research project combines the disciplines of engineering, psychology, and cultural anthropology. The risk perception of migrant and seasonal farm workers who are language- and ethnic-minorities will be compared to non-minority farm workers.

User-centered design guidelines for pesticide warning labels will be developed and an evaluation of usability and effectiveness will be conducted. User requirements and design specifications will be developed and disseminated to risk-communication manufacturers, employers, health educators, safety and training groups, minority-serving agencies, and community-based advocacy and education groups.

Smith-Jackson's research is in collaboration with the Southeastern Regional Agromedicine Center in Greenville, N.C. Graduate students assisting with this research include Yvette Quintela, an M.S. student in psychology at Virginia Tech. Smith-Jackson is the director of the Assessment and Cognitive Ergonomics (ACE) Lab at Virginia Tech. For more information, contact Smith-Jackson at smithjack@vt.edu.

CAMPUS UPDATE

Research Division elects Community of Science over IRIS

By Susan Trulove

Effective July 1, the Office of the Vice Provost for Research will discontinue the university's subscription to the IRIS (Illinois Researcher Information Service) database. "We found that use of the Community of Science (COS) database and alert service to locate funding opportunities has increased dramatically whereas use of IRIS has remained relatively low," Jim Blair, interim vice provost for research said.

Also, COS has information on funding opportunities in all disciplines—the arts and humanities as well as the sciences, he said. "Creative scholarship is an important component of a comprehensive university."

COS, a consortium of research institu-

tions, provides one of the largest repositories of searchable scientific and scholarly information available on the Internet. It contains information about expertise, funded research, and funding opportunities for research. For example, COS enables researchers to track information on funding and award histories at leading research facilities around the world by keyword, geography, institutional recipient, award amount, date, agency, investigator, departments, and more.

Virginia Tech faculty members receive the following free services: access to all profiles in COS expertise; access to more than 23,000 research grants representing over 400,000 funding opportunities worth more than \$33 billion, and customized funding information delivered to weekly to faculty members who have filled out

the expertise record.

The personalized electronic notification service of funding information, COS Funding Alert, provides a customized list of funding opportunities based on the criteria provided by the faculty member. The funding alert also offers a number of advanced search options, such as the ability to specify certain demographic information as a filter for all results and the option of receiving an e-mail.

"We urge faculty members to enter their information into the COS, and those who are already included to make sure their information is up to date," Blair said.

"Also, since the database is used by industry representatives, funding-agency staff mem-

bers, and other people looking for expertise, it is important to have keywords that are up to date and include the current buzz words (biometrics, nanotechnology, hydrogen economy), and to include non-technical words as well as scientific terms."

Sign up for COS, edit records, or learn more about COS at www.research.vt.edu/vted/services.html.

Anyone needing assistance should contact Bob Porter, program development manager, at reporter@vt.edu or 1-6747. Workshops on COS are given periodically during the academic year and are announced on the research web site, www.research.vt.edu.

INFO-TECHNOLOGY

Continued from 1

research expenditures to more than \$21 million a year, established an NSF Engineering Research Center in Power Electronics, and added 15 new faculty members. He also initiated the Women's Opportunity Program in Computing at Virginia Tech, convincing IBM to donate computers for an annual summer program in computer usage for female high school juniors. Under his leadership, the department moved into the ranks of the top 20 such departments in the country.

In 2001, Ferrari was named to the newly created position of vice provost for special initiatives, and the following year, he led the formation of the IIIT, which is responsible for coordinating and facilitating the growth of Virginia Tech's IT research and education programs, principally in Northern Virginia.

In addition to the IIIT, his initiatives have included VTKnowledgeworks, an incubator/accelerator program at the Virginia Tech Corporate Research Center; the Virginia Microelectronics Consortium, a partnership among universities, industry, and the state aimed at making Virginia a national leader in microelectronics education and research; the Alexandria Research Institute, a multidisciplinary research and education

organization; the School of Biomedical Engineering; and the Master of Information Technology (MIT) program.

As director of IIIT, Ferrari helped establish the University Center for Geospatial Information Technology and the Institute for Social Analysis of Technology, added six new faculty positions to IT departments, and facilitated and encouraged the submission of more than \$10 million in grant applications by IIIT affiliates. Internationally, he leveraged the MIT degree to expand the university's international programs into France, India, and the Middle East through active collaborations with the university's Office of International Research, Education, and Development and the Pamplin College of Business.

CESA

Continued from 1

group for the center and will convene a committee of senior leaders to do strategic planning for CESA. Knox said, "The center provides an important margin of excellence in the learning environment that we are able to offer our students. It is a wonderful facility and I am very pleased to play a role in support of our activities there. I know that Professor Daniel and Ms. Doninelli are dedicated to the success of CESA, and I look forward to working with them."

Doninelli is a Swiss national who has held an administrative position at the center since 1994, and was formerly operations manager and financial officer at CESA.

University Architect Scott Hurst will supervise maintenance repairs to the centuries-old villa that houses CESA. The villa lies within the

historic district of Riva San Vitale, and repairs must preserve the historic character of the structure.

The facility itself provides a learning experience for students. The villa, which has three stories devoted to classroom and living space, was built just before 1800 and is known as *Casa Maderni*. The main building, an adjoining library, and former stables enclose three sides of a fenced and gated courtyard. Frescoes decorate many of the villa's walls and ceilings. The university rents another house a short distance away to provide additional lodging facilities. Located along the route of an ancient Roman road, Riva San Vitale is in the canton of Ticino, the Italian-speaking region of Switzerland at the southwestern end of Lake Lugano.

"More than 1,000 students have experienced CESA so far," Jones said. "We hope to see those numbers increase rapidly."

EMPLOYMENT

The following classified positions are currently available. Position details, specific application procedures/position-closing dates may be found on Personnel Services web site <http://www.ps.vt.edu>. Positions are also listed on the Job Line, a 24-hour recorded message service. For information on all job listings, call 1-5300. Some positions include state benefits. Positions with numbers beginning with "W" are hourly and do not include state benefits. Individuals with disabilities desiring assistance or accommodation in the application process should call by the application deadline. Closing date for advertised positions is 1 p.m. Monday. An EO/AA employer committed to diversity.

CLASSIFIED POSITIONS

FULL TIME

One food-service position available.
Accountant, 004522F, PB 4, Controller's Office.
Accountant Senior, 002068F, PB 4, Controller's Office.
Administrative/Financial Services Associate, 007981Y, PB 4, IRED.
Administrative Support Specialist, 007627B, PB 3, Engineering.
Assistant Manager Senior, 000514H, PB 3, RDP.
Associate Director Culinary Services, 002947H, PB 5, RDP.
Business Analyst, 002080Y, PB 4, IAMS.
Buyer Specialist, 001982F, PB 4, Purchasing.
Development Associate, 001441B, PB 3, Engineering Development.
Development Associate, 008086S, PB 3, University Development.

Director Construction Services, 008082F, PB 6, CDC.
Electrician, 001691F, PB 3, Physical Plant.
Field/Laboratory Research Technician, 008016B, PB 3, Biology.
Grants Specialist, 008076K, PB 4, VBI.
Grants Specialist, 004073M, PB 4, CVM.
Johnson Student Center Service Assistant, 006954J, PB 1, UUSA.
Lab Instrument Maker, 002483B, PB 4, AOE.
Plumber Steamfitter, 007339F, PB 3, Physical Plant.
Police Officer, 008027F, PB 3, Police.
Powerline Worker, 006524F, PB 3, Facilities.

Program Support Technician, 001615B, PB 3, Graduate School.
Programmer Analyst, 008087Y, PB 5, Educational Technologies.
Programming/Resource Staff Director, 008081F, PB 6, University Architect.
Sous Chef, 002946H, PB 3, RDP.
Staff Architect, 008079F, PB 5, University Architect.
Unit Manager, 007961H, PB 5, RDP.

PART TIME

Animal Care Technician, W022675M, PB 1, VTH.
Field Technician Assistant (Telecommunications), W023203A, PB 2, CNS.
Lab Assistant, W023536M, PB 3, HNFE.
Office Services Specialist, W022260C, PB 2, VTH.
Radiologic Technologist, W022238M, PB 3, Schiffert Center.
Small Animal Veterinary Technician, W020101M, PB 4, VTH.
Starter Marshall/Shop Attendant, W022113J, PB 1, Golf Clubhouse.
Switchboard Operator, W022101A, PB 2, CNS.

UNIVERSITY ONLY

Program Support Technician Sr., U001584J, PB 3, Business.
OFF CAMPUS
GIS Technician, CCCCC, PB 0, CMI.
Historic/Prehistoric Collections Curator, 008080J, PB 4, CMI.
Nursing Shift Supervisor, 002996M, PB 2, EMC.
Unit Administrative Assistant, 008077M, PB 3, VCE—Fauquier County.
Wildlife Worker, 006643B, PB 2, Biology.

FACULTY POSITIONS

INSTRUCTIONAL

Department of Statistics. Post-Doctoral Associate. Contact: Bill Woodall (0439).
Department of Small Animal Clinical Sciences, College of Veterinary Medicine. Department Head. Contact: Dean's Office, College of Veterinary Medicine.
Department of Mathematics. Post-Doctoral Associate. Contact: John Rossi, rossi@vt.edu.
Biological Systems Engineering Department. Instructor. Contact: Saied Mostaghimi, smostagh@vt.edu.

NON-INSTRUCTIONAL

Department of Psychology, Research Scientist in the Child Study Center. Contact: Thomas H. Ollendick, tho@vt.edu.
University Relations. Director of News/Information. Contact: Randall R. Stith (0133).
Virginia Bioinformatics Institute (VBI), Documents Specialist. Contact: Human Resources, Virginia Bioinformatics (0477).
Virginia Bioinformatics Institute (VBI), Post-Doctoral Associate. Contact: Human Resources, Virginia Bioinformatics (0477).



VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

Spectrum, a faculty-staff tabloid, is published each Friday during the academic year, with the exception of certain holidays, exam weeks, and the summer. Copy deadline is noon Friday. No advertising is accepted.

Spectrum is a non-profit publication of the Office of University Relations: Lawrence G. Hincker, associate vice president for University Relations; Jean Elliott, director of news and information.

Editor

John Ashby, 1-6961

News Bureau Manager
Sherri Box, 1-8508

Production Manager
Melinda Shaver, 1-8524

Business Manager
Paula Vaught, 1-6333

Web/Editorial Assistant
Sherri Songer, 1-2522

Letters to the editor and questions for "Ask *Spectrum*" should be addressed to the editor, 102 Media Building, Virginia Tech, Blacksburg, VA 24061.

Electronic Spectrum. <http://www.spectrum.vt.edu>
 Virginia Tech does not discriminate against employees, students, or applicants on the basis of race, color, gender, sexual orientation, disability, age, veteran status, national origin, religion, or political affiliation. Anyone having questions concerning discrimination or accessibility regarding the programs described in this newspaper should contact the Equal Opportunity Affirmative Action Office: 540-231-7500 (v), 540-231-9460 (TTY).

IN OTHER NEWS

MBA concentration in hospitality management offered

By Sookhan Ho

The Pamplin College of Business now offers an MBA concentration in hospitality and tourism management. The concentration comprises specialized course work for students interested in a career in the hospitality and tourism industry.

After completing the core curriculum, MBA students at Virginia Tech may focus their choice of electives by completing concentrations. Students completing the hospitality-and-tourism-management concentration will take the following four required courses: International Service Management, Current Issues in Travel and Tourism Management, Contemporary Problems in the Hospitality Industry, and Franchising in Hospitality Management. They may take optional support courses, including, Corporate Finance, International Management, and International Marketing Strategy.

Additional hospitality-and-tourism-management courses are being created in such areas as the economic, social, and environmental impacts of tourism and tourism planning and development.

For more information about the Pamplin MBA program and the hospitality and tourism management concentration, contact the Office of MBA and International Programs at 1-6152, e-mail mba_info@vt.edu, or visit web site www.mba.vt.edu.

Faculty Women's Club presents scholarships

Virginia Tech Faculty Women's Club Honorary President Janet Steger presented two \$1,200 scholarships to Kelli Parsons and Nicole Reynolds at the club's spring luncheon and annual general meeting.

Parsons and Reynolds are rising seniors at Virginia Tech and are biology majors planning to pursue a career in medicine.

This is the 30th year that the club has awarded scholarships to outstanding women in their junior year.

WATFORD

Continued from 1

at Virginia Tech has been recognized with numerous honors. In 1996, she received Virginia Tech's Affirmative Action Award for improving the campus environment for minority and women students and she was featured in an article in *Woman Engineer* about how universities and companies offer support to women in engineering.

Two national honors were accorded Watford in 1997. She received the Charles A. Tunstall Outstanding MEP Award from the National Society for Black Engineers for her significant contributions to the success of African-American students at Virginia Tech, and she was selected as one of the 50 Top Minority Women in Science and Engineering by the National Technical Association.

In 2002, she received both the Virginia Tech Women's Center Advancing Women Award and the national Black Engineer of the Year Award/College Level Educator, presented by the Council of Engineering Deans of Historically Black Colleges and Universities, Lockheed Martin Corp., and *USBE and Information Technology* magazine.

In March of this year, Watford was elected

Governor convenes Higher Education Research Summit

Governor Mark R. Warner convened a Higher Education Research Summit yesterday to explore opportunities to promote and encourage research excellence at Virginia's public and private colleges and universities. The summit was held at Newport News.

In his 2002 State of the Commonwealth address, Warner set a goal of having an additional 15 research programs ranked in the top five nationally, and to identify ways to help campuses operate in a more entrepreneurial manner. In his remarks yesterday, Warner challenged Virginia's public and private universities to set goals to increase the estimated \$607 million in current research and development expenditures to \$1 billion by the end of the decade.

"My interest in research is not so much for its own sake, or for the reputation of any one institution. My interest is in how research contributes to our quality of life and helps meet our collective needs," Warner said. "Not every institution of higher education can or should aspire to be a top-30 research university. But every institution can aspire to have outstanding research programs."

Summit participants also discussed a report issued by the Steering Committee on Research Capabilities and Centers of Excellence, led by Virginia Tech President Charles Steger. The committee worked with the State Council of Higher Education for Virginia (SCHEV) to review re-

search activity and support. The group then looked at the value of research to both education and economic development, the research landscape in industry world-wide and U.S. government agencies, and the competitive positions of programs at Virginia's colleges and universities compared to institutions and systems nation-wide.

"Sorting out and prioritizing the excellent academic programs across the commonwealth's colleges and universities is going to be a critical step in meeting the governor's challenge goal," committee members decided.

The committee has engaged the National Academy of Sciences to identify a team to assess programs at the state's research universities. The assessment is to be completed by Sept. 1, 2003. Other committee recommendations include investment strategies, collaborations to enhance research sponsorship, and programs to attract the best faculty and staff members and students.

"The questions that arise are 'who should be ranking university research programs' and 'according to what criteria?'" Steger said. "University research is not a deliverable per se, but an inextricable part of scholarship and education in all the disciplines—history and music as well as chemistry and engineering, for instance. Different programs require different

kinds of resources, including intellectual elbow room, if there is to be a foundation for discovery—where questions can create more questions as well as answers—as part of a vibrant higher-education system that serves students and all of society."

The committee contacted the National Academy of Sciences (NAS) to identify experts to assess university research programs in the sciences, engineering, and medicine. The Virginia Research and Technology Advisory Commission (VRTAC) Committee on Research will identify top programs from the four-year Ph.D.-granting universities to be examined by the independent study panel assembled with the assistance of NAS. The VRTAC committee is made up of the chief research officers of the universities.

The study panel has been asked to evaluate the programs as current top-10 programs, programs with potential for top-10 status and the investments that could make it so, and programs that do not have that potential for top-10 status at any reasonable level of investment.

The panel has also been asked to note potential synergies among programs across institutions that could enhance success in attracting research funding and to identify specific research programs and research leaders that are truly excellent and well-positioned to align with multiple federal research strategies.

Budget cuts will not cancel Fall Commencement

By Larry Hincker

The university will not cancel Commencement ceremonies for fall 2003. "The ceremonies are too important to our students and their families. These events have become part of the university culture and tradition in just a short time," said Ed Henneke, associate dean in the college of engineering and chair of the Commencement Committee.

The Graduate School ceremony currently is scheduled for Friday, Dec. 19, and the undergraduate university ceremony is scheduled for Saturday, Dec. 20, but the university administration is considering a recommendation

by the faculty to hold both ceremonies on Friday, Dec. 19. No decision has been made.

Because of major losses in state funding, the university administration had considered eliminating the Commencement ceremonies for fall 2002. Private funding including support from the local hotel community offset losses in state funding and enabled the ceremonies to be held as planned.

Henneke is not certain where the university will find funds to hold the ceremony, but said that the university will not ask the local hoteliers. "We'll find a way to make it happen," he said.

The university began holding a Fall Commencement ceremony in 1990 to complement spring Commencement. About 1,200 graduate and undergraduate students received their diplomas at the December event.

DUBOSE

Continued from 1

all four limbs due to tissue damage caused by the infection. On July 8, DuBose was transferred to Good Samaritan Hospital, a Baltimore, Md. rehabilitation facility near her home in Columbia, Md. Soon after, she returned to her home and began regular visits to the rehab facility where she later was fitted with prosthesis for her arms and legs. She has since made several visits back to the Virginia Tech campus and joined her teammates at the Big East Women's Basketball Championship tournament. She plans to work several basketball camps this summer at Tech as well as enrolling in school.

DuBose, along with her parents, travelled to New Orleans, La. for the NCAA Men's Final Four where she received the U.S. Basketball Writers Association's Most Courageous Award. The award is given annually by the USBWA to a player, coach, official or administrator in college basketball who wage courageous battles in life in the face of adversity or hardship.

The Virginia Tech Monogram Club, Tech's organization for former student-athletes, and the Virginia Tech women's basketball team established the fund to assist the DuBose family with medical and rehabilitation expenses.

The athletics department acts in accor-

dance with NCAA regulations as a custodian and assists with the collection of contributions. The Monogram Club was selected as the most acceptable avenue for the fund under state guidelines.

For more information about the fund and how to make a contribution, visit the Monogram Club web site at <http://www.hokiesports.com/monogram/>.