

SPECTRUM

Virginia
Tech

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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TODAY'S EDITION
See page 2 for
information on
campus activities.

Bioinformatics researchers win \$600,000 NSF award

By Sally Harris

A multidisciplinary team of bioinformatics researchers from Virginia Tech has won a \$600,000 award from the National Science Foundation (NSF) Next Generation Software (NGS) Program.

The award supports the further design and implementation of Espresso—a sophisticated computational system for micro-array bioinformatics. Micro-arrays (sometimes called DNA chips) are an approach to studying simultaneously the expression of hundreds or thousands of genes in a given organism.

The grant project is a multidisciplinary collaboration between computer scientists, who will perform the computer-science research part of the project and will develop the computer-systems software, and biologists, who will use the developed management infrastructure of the Espresso software

to conduct their investigations.

The funded project will address all stages involved in micro-array experiments—design, processing, analysis, and interpretation of the biological results. Espresso's design automates many of the tedious methodological aspects of conducting micro-array experiments and analyzing subsequent data. It will serve as a tool of powerful synergy between traditional laboratory work and the high-level goals of experimental biologists.

According to two of the investigators for the grant, Naren Ramakrishnan and Lenwood S. Heath of the Department of Computer Science in the College of Arts and Sciences, Espresso is a software system that can be used to conduct a variety of experimental-biology research projects. For example, with colleagues at North Carolina State University, the group is using micro-arrays and Espresso to identify genes that allow loblolly pine trees to resist

periods of drought. The result will be hardier pine trees that will be economically valuable for the forest industry, the researchers said.

Also, with Malcolm Potts of biochemistry and Rich Helm of Wood Science and Forest Products, the researchers are analyzing micro-array data from both bacteria and human tissue to identify genes whose expression changes in the face of drying out. "The result will be human tissue that can be dried out and later reconstituted with water. This can help make the military less dependent on supply lines," Ramakrishnan said. There are also other medical applications.

In collaboration with the International Potato Institute in Lima, Peru, the group is developing micro-arrays for the study of environmental stress and enhanced production of antioxidants in Andean potato varieties. "The result will be more economically productive" (See *BIOINFORMATICS* on 3)



BATES

Bates named provost at WSU

By Sally Harris

Robert C. Bates, dean of the College of Arts and Sciences and microbiology professor at Virginia Tech, has accepted the position of provost and academic vice president at Washington State University (WSU) in Pullman, Wash.

As WSU's chief academic leader beginning in January 2002, Bates will be responsible for all academic issues, ensuring the excellence of the WSU programs.

Bates, who has been at Virginia Tech since 1972, is very familiar with academic issues and the land-grant mission. As dean, he leads the largest college at Virginia Tech, which has six divisions encompassing the areas of the humanities, social sciences, physical sciences, mathematical sciences,

(See *BATES* on 3)

University developing transportation, parking master plan

By Sherri Box

The university is in the process of developing a transportation-and-parking master plan that will address the lack of available parking spaces on campus.

The Virginia Tech Office of Transportation manages over 13,000 parking spaces in 71 surface parking lots and is responsible for permit sales, parking enforcement/appeals, lot maintenance, pedestrian and bicyclist issues and coordination of transit issues with surrounding communities. With a total campus population of over 30,000, the administration realizes that efficient parking, effective traffic management and mass-transit services are critical to the continued

growth and success of the university.

Under the guidance of a steering committee (Steve Mouras, director of transportation; Scott Hurst, university architect; and J.B. Sutphin, division head, site and infrastructure development), the university has contracted the services of Hayes, Seay, Mattern & Mattern (HSMM). HSMM is conducting a detailed analysis and develop a master plan (www.ot.vt.edu/masterplan) to identify transportation and parking needs for the next 10 years. The study area involves the main campus only. In addition, the plan will propose actions (i.e. new construction and/or procedural changes) to meet these needs.

Options under consideration are expanding surface lots, pro's and cons of building parking

structures (garages), identifying intersections that require increased management (traffic signals), discouraging single-occupancy vehicles (SOV's) on campus, assessing the viability and benefits of a pedestrian-friendly zone in the core campus areas (Drillfield), expanding the use of alternative transportation options (i.e. bike/walk trails, bus transit, carpool/ridesharing, park and ride), reducing the volume of drive-through traffic on campus (traffic without a campus destination), estimating the cost of new construction and maintenance, and recommending methods of self-funding (e.g. increases in permit cost).

The scope of the HSMM project is assessment of current operations, parking supply (See *UNIVERSITY* on 4)

Engineering students win national aircraft-design competition

By Liz Crumbley

For the seventh time since 1990, Virginia Tech engineering students have placed first in the nation in the Undergraduate Team Student Design Competitions sponsored by the American Institute of Aeronautics and Astronautics (AIAA).

The 2001 competition was won by a 10-student Virginia Tech team that designed "Chimera," a Naval common-support aircraft. Chimera is designed to combine the capabilities of four Navy carrier aircraft, said William Mason, professor of aerospace and ocean engineering (AOE). Mason and Nathan Kirschbaum of AOE are faculty advisers for the team.

Chimera is a high-wing, twin-engine plane that can perform airborne early warning, electronic surveillance, anti-submarine/anti-surface warfare, and carrier on-board delivery—feats performed by four separate Navy aircraft.



CHIMERA

Competition entries were judged by members of AIAA technical committees. AIAA established the competitions to increase the practical skills of students and to recognize excellence in aerospace engineering studies at the undergraduate and graduate levels. To successfully compete, teams must adhere to a

rigorous series of requirements and design objectives.

Team members David Brown, Kevin Cogley, Timothy Collins, Erin Crede, Brett Dickerson, Chuck Faulkenbury, Stephen Gabris, Jeremiah Hansen, Eric Kern and Mark Wilkening received a \$2,500 cash award from AIAA. Hansen presented the award-winning design to the AIAA Aircraft Technology Integration and Operations Forum in Los Angeles on October 18.

Two members of the team were freshmen and the rest were seniors in AOE while they worked together to design their winning entry during the 2000-2001 academic year. All were members of the Virginia Tech student chapter of AIAA.

Virginia Tech teams have placed first, second or third or received honorable mention in each AIAA undergraduate design competition for the past 12 years, Mason said.

Virginia Tech Police Offer Reward

By Sherri Box

In conjunction with other state agencies, the Virginia Tech Police Department is offering a reward of up to \$5,000 for information leading to the arrest of the person or persons responsible for placing the suspicious device in Newman Library on Thursday, Oct. 11.

Anyone having information should contact Sergeant Larry Snidow at 1-8121 as soon as possible.

According to the department, on October 11 a person or persons placed a suspicious device in the fifth-floor men's restroom in Newman Library. Discovery of the device caused the evacuation of the library in addition to four other campus buildings. The Virginia State Police and FBI bomb squads determined, after several hours, that the device was a hoax.

ACTIVITIES

EVENTS

Friday, 2

Organization of Women Faculty Coffee Hour, 8 to 9 a.m., Easy Chair.

Excellence in Education Conference.

Water Center Summit, DBHCC room A: Details TBA.

International Club, details TBA.

Saturday, 3

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

YMCA Hike, 10 a.m., YMCA Parking Lot.

Football, noon: At Pittsburgh.

Sunday, 4

Book Signing, 1 p.m., Volume Two: Homer Hickam.

FLAP!, Squires: 1-5200 for information.

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

Ensemble Concert, 8 p.m., Squires Recital Salon.

Monday, 5

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

Family, Work/Life Resources Program, noon to 1 p.m., DBHCC room A.

Wednesday, 7

"With Good Reason," 7 p.m., WVTF.

Thursday, 8

Family, Work/Life Resources Program, noon to 1 p.m., DBHCC room D.

YMCA Slide Show, noon, Cranwell Center.

CommonHealth Program, 12:10 to 12:55 p.m., Southgate Personnel classroom.

Cutchins Lecture, 7:30 p.m., Burruss auditorium: George Will.

Friday, 9

Geological Museum Mineral Sale, 9 a.m. to 4 p.m., 2062 Derring.

SEMINARS

Friday, 2

Highlands in Chemistry, 11:15 a.m., 3 Davidson: Fred Menger, Emory.

MCBB, 12:30 p.m., 102 Fralin: David Dyer, Colorado.

Philosophy, 3 p.m., 225 Major Williams: James Mahon, Washington and Lee.

Geological Sciences, 3 p.m., 4069 Derring: Peter Treloar, Kingston U.

Monday, 5

Biochemistry, 4 p.m., 223 Engel.

Wednesday, 7

History Teaching, 12:15 to 1:15 p.m., 427 Major Williams: Crandall Shifflett.

Friday, 9

Highlands in Chemistry, 11:15 a.m., 3 Davidson: J.D. White, Oregon State.

MCBB, 12:30 p.m., 102 Fralin: Steven Melville.

Philosophy, 3 p.m., 225 Major Williams: Anita Silvers, SFSU.

BULLETINS

Global Diversity symposium scheduled

There will be a one-day symposium titled "Teaching and Learning about Global Diversity" on November 6 in the Donaldson Brown conference center. The symposium will connect high-school teachers from Montgomery County and other nearby school districts who teach about global issues in social-studies classes with university faculty members who have expertise in these areas.

There will be a series of presentations and workshops that address a broad range of themes and different approaches to teaching and learning. Topics of presentations include Islam in World History, Geographic Literacy, Multicultural Communities, Digital History, Europe after Communism, America and the Third World, Cultural Contacts, and Standards of Learning in World History. The program is supported by the colleges of Human Resources and Education, Arts and Sciences, offices of the Provost, Multicultural Affairs, Continuing Education, History, Teaching and Learning, the Center for Teacher Education.

For more information call 1-8366.

CFPO president to lecture

David A. Ford, president and CEO of the Certified Forest Products Council, will lecture on Thursday, Nov. 8, at Fralin Biotechnology Center on "The Roles of the Certified Forest Products Council in Forest Products Certification."

This is the fifth lecture of the Fall 2001 Public Seminar Series sponsored by Virginia Tech's College of Natural Resources on certification issues in sustainable natural-resource management.

All lectures, except for November 29, are scheduled from 3-4 p.m. on Thursdays in the Fralin auditorium. Information about lectures on November 15, and 29 is available at <http://calendar.vt.edu/week.phtml>. The November 29 lecture will be held in 315 Cheatham from 3-4 p.m.

Will to present Cutchins Lecture

Nationally syndicated *Washington Post* columnist and TV news analyst George F. Will will present "Public Affairs, Public Policy, and American Society," Thursday, Nov. 8, at 7:30 p.m.,

in Burruss auditorium. The presentation is the Cutchins Distinguished Lecture, sponsored by the Corps of Cadets Center for Leader Development and the Pamplin College of Business. The lecture is free and open to the public. For more information, call 1-7136.

Annual mineral, gift sale set

The Geological Science's Museum Mineral and Fossil Sale is Saturday, Nov. 3, from 9 a.m. to 4 p.m. in 2062 Derring. Gems, minerals, fossils, jewelry and gifts pertaining to the geological sciences will be available to view and purchase. All proceeds support the educational programs of the Museum of Geological Sciences.

The American Association of University Women Educational Foundation will also sell pecans, maple syrup, and 2002 calendars from 9 a.m. to noon. Proceeds go for AAUW fellowships and grants to advance educational and career opportunities for women. For more information, call Jennifer Stempfen at 1-1840.

CALS forms new department

By Stewart MacInnis

Agricultural and Extension Education is a new department in the College of Agriculture and Life Sciences as a result of combining two administrative units.

The new department incorporates the Agricultural Education Program, which is concerned with developing agricultural-education teachers for secondary and middle schools, and Extension Educational Programming, which provides education and support for current Extension professionals.

"This makes sense in a lot of ways," said John Hillison, the head of the new department. "The two former units have very compatible clientele—agents teach people and agricultural-education teachers teach people. The principles of how they do it are the same. The faculty members from the two groups can help each other better serve both clientele groups. In fact, we've been working closely together for some time."

A proposed master's program that will be available by distance delivery is being developed for Extension agents and agricultural

(See CALS on 4)

Landscape architecture names new advisory board

By Sarah Newbill

The Department of Landscape Architecture in the College of Architecture and Urban has appointed eight members to the newly formed Landscape Architecture Alumni Advisory Board.

The board will work with department faculty members and students to develop and outline immediate and long-term goals and initiatives for the master's- and bachelor's-degree programs. They will also assist in developing such alumni services as a job link, alumni database, featured project profiles for publication on the department's web site.

Members include William Almond, Lynn Crump, David P. Hill, Glenn Oder, Andrew Scherzer, Charles Ware, Gary Warner, and Melissa Board Wells.

As the U.S. Board of Labor projects more than a 21-percent job growth in the landscape-architecture field, the department is working to maintain and enhance curricula. In addition, it is supporting initiatives to meet the needs of the profession as well as promoting the role of landscape architects in meeting development and growth challenges.

More information is available at www.lar.arch.vt.edu or 1-5487.

Robertson consults on Civil War movie

By Sally Harris

When James I. Robertson answered the phone and heard someone say, "Hello, Dr. Robertson. This is Robert Duvall," Robertson's first thought was "Oh, right, and I'm the king of..." But as he listened to the familiar voice that started asking him about the character of Robert E. Lee in the film-in-progress *Gods and Generals*, Robertson realized he really was talking to one of the actors he admired most.

Robertson has been hired to be an historical consultant for the movie based loosely on the book *Gods and Generals* by Jeff M. Shaara, which has four main characters. However, Robertson said, Ron Maxwell, the director and screenwriter for the movie (best known for the landmark film *Gettysburg*), decided it would be hard to do justice to four main characters. He had read Robertson's book *Stonewall Jackson: The Man, The Soldier, The Legend* and decided to focus the movie on Jackson, using Robertson's depiction of the soldier. So he hired Robertson as a consultant to review the movie script for accuracy of fact. Also, if the filmmakers are adjusting the scenes and have questions about whether the events happened a certain way, they call Robertson. For example, he got a call to spend one recent weekend on the movie set watching scenes being shot and offering suggestions. But Robertson's most important task

is to counsel various actors, including Duvall, on how they should play their roles.

Filming on the movie started the last week in August, with one crew filming Jackson in Lexington and another filming Lee crossing the Potomac in Leesburg. A crew filmed battle scenes just outside Staunton and then moved to a farm south of Hagerstown, Md., for filming. Robertson accompanied the crew and Steven Lang, a well-known Broadway actor who is portraying Jackson in the movie, to Hagerstown, at Lang's invitation, to watch filming and help keep the movie accurate.

"I've been working with Mr. Maxwell and others since late spring," Robertson said, "and hardly a week goes by that I don't get one or two phone calls with a list of questions about the accuracy of this or the reality of that."

"The biggest dividend so far has been not only to meet, but to become close friends with Robert Duvall," Robertson said. "He's the consummate actor. He's played everything from the lawyer in *The Godfather* to Gus in *Lonesome Dove*. The thing about him is that, when he asks a question, he listens to the answer. I find him very warm and engaging." Duvall asks a lot of questions about the character of Lee and how he should be portrayed, Robertson said.

Although Robertson has met and talked

(See ROBERTSON on 4)

EMPLOYMENT

CLASSIFIED POSITIONS

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.

FULL TIME

Six full-time food-service position available.
Administrative Staff Assistant, 007867R, PB 3, VBI.
Agricultural Technician, 007874M, PB 2, CSES.
Alternative Transportation Manager, 007223F, PB 4, OT.
Assistant Director for Capital/Reserve Projects,

007870H, PB 5, RDP.
Database Administrator, 007777R, PB 5, VBI.
Development Associate, 007871S, PB 3, Development.
Enrollment Services Specialist, 007868R, PB 3, IDDL.
Faculty Data/Procedure Technician, 006286G, PB 3, Personnel.
Fastcat Cataloger, 001227G, PB 3, Library Acquisitions.
Federal Reimbursement Unit Analyst, 007847B, PB 5, IPO.
Federal Reimbursement Unit Lead Analyst, 007848B, PB 5, IPO.
Financial Planning Manager, 007567F, PB 5, BFP.
Food Production Supervisor, 000405H, PB 1, RDP.
Food Production Supervisor, 000549H, PB 1, RDP.
Food Stamp Ebt Payment Accuracy Analyst, 007850B, PB 5, IPO.
Grounds Worker, 000842F, PB 1, PP/G.
Housekeeping - Night Crew, 007814H, PB 1, RDP.
Housekeeping Manager, 006926H, PB 3, RDP.
Housekeeping Supervisor, 000269H, PB 2, RDP.
Housekeeping Worker, W023295H, PB 1, RDP.
Housekeeping Worker, P002005C, PB 1, Physical Plant.
Housekeeping Worker, 000096H, PB 1, RDP.

Housekeeping Worker, 000902J, PB 1, UUSA.
Laboratory Specialist, 007866R, PB 3, VBI.
Laboratory Specialist, 007707B, PB 3, CE.
Laboratory Technician, 007873M, PB 3, PPWS.
Marketing/Conferences Specialist, 007875H, PB 3, RDP.
Medical Technologist, 002596M, PB 4, VTH.
Multimedia Systems/Applications Specialist, 002054A, PB 4, VBS.
Office Services Specialist, 0LC068F, PB 2, Hokie Passport.
Sous Chef, 000940H, PB 3, RDP.
Transportation Planner, 007498F, PB 4, OT.

PART TIME

Animal Care Technician, W020066M, PB 2, VTH
Animal Care Technician/Small Animal, W022675M, PB 1, VTH.
Audio Support Specialist, W023130J, PB 3, UUSA.
Departmental Receptionist, 023331J, PB 2, Athletics.
Fiscal Assistant, W020810M, PB 2, VTH.
ICU Veterinary Technologist, W022218M, PB 2, VTH.
Laboratory Specialist, W023305M, PB 3, APS.
Radiologic Technologist, W022238J, PB 3, Health Center.
Registered Nurse, W020479J, PB 4, Health Center.

OFF CAMPUS

Facilities Coordinator, 006849R, PB 3, NVC.
Program Support Technician, 005114M, PB 3, VCE—Bath County.
Radio Announcer, W020800S, PB 3, UR/WVTF Radio.
Television Systems Engineer, 007106R, PB 4, VTRC.
Underwriting Account Executive, 001963S, PB 4, UR/WVTF.

FACULTY POSITIONS

NON-INSTRUCTIONAL

VCE. Extension Agent, Agriculture/Natural Resources (re-advertised). #111463, Southampton Co. Contact: Steve Umberger, 121 Hutcheson (0437). Review begins Nov. 28.
VCE. Extension Agent, Agriculture/Natural Resources (re-advertised). #FA796, Augusta County. Contact: Steve Umberger, 121 Hutcheson (0437). Review begins Nov. 28.
Office of Provost. Master in Information Technology (MIT) Program Advisor. Contact: Leonard Ferrari, 2000 Torgersen (0285). Review begins Nov. 16.

VIRGINIA TECH RECYCLING UPDATE

Phonebook and Campus Directory recycling: VTR is collecting phonebooks and campus directories for recycling again this fall. Place old directories next to the stackable paper bins and a VTR collection crew will pick them up along with the regularly scheduled pick up of paper. Those in offices without sets of these bins should collect all the directories in one spot and contact the VTR office for pickup (1-9915 or lbechtel@vt.edu). Old directories and phonebooks can also be taken

to the labeled dropbox located at the west end of Derring Hall (facing Duckpond Drive).

Colored paper: Some weeks ago, the "Current" section of the Roanoke Times ran an article about the curbside paper-collection program for the Town of Blacksburg, indicating that colored papers were no longer acceptable. Unfortunately, the article gave the mistaken impression that this was also true for paper recycling on the Virginia Tech campus. In fact, the guidelines for collection of Sorted Office Paper for recycling have not

changed. This category still accepts computer printout and copier/typing paper, pastel-colored sheets, manila folders, envelopes (with or without windows), carbonless paper, pamphlets, brochures, fax paper, and Spectrum.

Sorted office paper does not take neon-bright sheets, ream wrappers, carbon paper, or cereal-type boxes

For more information, contact Virginia Tech Recycling

Steger opens Vecellio Distinguished Lecture Series

By Chema de la Garza

President Charles Steger opened the Vecellio Distinguished Lecture Series recently, introducing Wayne Clough, the former dean of the College of Engineering, as the first Vecellio lecturer.

Steger said in his opening remarks that "...this special Vecellio family has long embodied the spirit 'Ut Prosim,' serving the university through both their generosity and leadership. Throughout the years, they have consistently shown their love and loyalty for Virginia Tech. We are truly fortunate to have them as friends of the university."

Clough, president of Georgia Tech and the former department head of civil and environmental engineering at Virginia Tech, spoke on "Society and the Built Environment: What Lies Ahead." In his lecture, Clough spoke of the multiple challenges the construction industry will face in the near future as a result of the backlog in civil infrastructure in the US. He emphasized that emerging information technology and advances in smart materials are important developments to be able to meet the infrastructure challenges.

"This lecture series will provide an opportunity for members of the campus community to interact with industry leaders of international prominence. Faculty members and students alike will benefit from the knowledge and experience of the industry's top experts. This lecture series will enhance our already superb program in Construction Engineering and Management and will add visibility and prestige to Virginia Tech's engineering programs," Steger said.

In addition to the lecture series, the Vecellio endowment will fund a named professorship, undergraduate scholarships, and graduate fellowships. Hannah L. Boyd, a senior in civil engineering, is the recipient of the first Vecellio undergraduate scholarship.

BATES

Continued from 1

and performing and fine arts, as well as the university's three ROTC units. The college has 625 faculty members, 170 support-staff members, 1,000 graduate students, and more than 7,000 undergraduate students.

"In his nearly three decades here, Dean Bates has been a great asset to the university as well as to the College of Arts and Sci-

ences," President Charles Steger said. "Many of the college initiatives developed during his tenure as dean have been models for university actions. We are sorry to lose such an innovative leader, but we wish him the best in his new position."

"When I came here as a young assistant professor, I had no idea I would eventually have the opportunity to interact with such a variety of outstanding people in so many disciplines and administrative offices, both here in Blacksburg and also in other parts of the world," Bates said. "While I have worked hard to make a difference, I could not help but be pleasantly surprised by the overwhelming amount of positive feedback that I have had from people here as I struggled to make the decision about the new position. I assure all of you that my life has been enriched immensely by having served alongside so many of you all these years."

During his tenure as dean, Bates has led the college in the development of a tradition of strong collaboration that facilitates the creation of cross-disciplinary instructional and research teams. A part of that collaborative support came in the re-organization in 1995 of several programs and small departments to form the Center for Interdisciplinary Studies to promote interdisciplinary approaches in teaching and research in the humanities. The college's cross-disciplinary approach includes not only teaching and research, but outreach and international-program development.

Since becoming dean, Bates has led the college in reallocation of resources by conducting an extensive program review and developing a restructuring and selective differential budget-reduction plan. The university adopted much of this approach for its resource-review process in 1995.

Bates has strongly supported diversity issues and served as chair of the search committee

for the position of vice president of multicultural affairs in 1998. He was instrumental in developing a revised faculty-hiring plan that more successfully addresses his college's diversity needs. The full university is now adopting that plan.

Bates established the Humanities Centers, the Center for Digital Discourse and Culture, and the Center for Applications of Technology in the Humanities. During his term as dean, the college developed several instructional-technology initiatives, including the Cyberschool Project, (the first web-based on-line course), the Math Emporium Learning Center, the Chemistry Learning Center, and on-line master's-degree programs.

Bates came to Virginia Tech as assistant professor of biology. He was promoted to associate professor in 1978 and to professor in 1985. He served as associate dean for research and graduate studies in the College of Arts and Sciences from 1987 until 1994, when he was named dean.

BIOINFORMATICS

Continued from 1

and nutritious potato crops, which will benefit the farmer and consumer as well," Heath said.

The team includes Ramakrishnan, Heath, and Layne T. Watson of the Department of Computer Science in the College of Arts and Sciences, Ruth Grene Alscher of plant pathology, physiology, and weed science in the College of Agriculture, and Jennifer Weller of the Virginia Bioinformatics Institute. Ramakrishnan, Heath, and Watson are members of the problem-solving environment (PSE) group at Virginia Tech; this award is the third Next Generation Software award to the PSE group. The Espresso award is among the largest made in this year's competition.



VIRGINIA POLYTECHNIC INSTITUTE
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John Ashby, 1-6961

Assistant Editor

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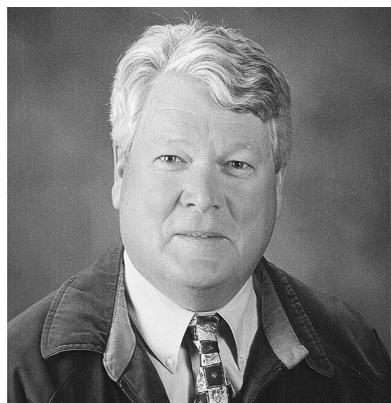
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CVC WINNER



KALOUPEK

Tom Kaloupek from Purchasing is the winner of two tickets to a Stephen Covey leadership seminar, donated by the Pamplin College of Business. His name was drawn from all those sending their Commonwealth of Virginia Campaign pledge cards to Gloria Smith by October 22. At that time, the total amount received for the CVC was \$63,960.40, which is 30 percent of Virginia Tech's goal. Many more prizes are available.

OBITUARY

Tom Marlow, 84

Thomas Marlow, professor emeritus in the Department of Animal and Poultry Sciences, died October 2 at the age of 84.

An expert in cattle breeding, genetics and performance-testing standards, Marlow touched the lives of many students and contributed to the cattle industry during his 30-year career with Virginia Tech.

Marlow joined the Virginia Tech faculty in 1954, and taught courses in livestock judging, endocrinology, animal breeding, and beef production.

He was instrumental in the establishment of the Virginia Beef Cattle Improvement Association, and assisted in the creation of similar programs in 20 other states. He served as a technical adviser to the Virginia association and its directors for nearly 30 years.

He conducted a study-abroad program to the Pacific and to Mexico for Virginia Tech students. He served as an animal geneticist for a consortium of U.S. universities working on agricultural-education development in Sri Lanka.

STUDENT DEATH NOTICE

Dillard Campbell III, College of Engineering.

CALC

Continued from 2

education teachers, as well as agricultural industry personnel.

The original Department of Agricultural Education was a part of the agriculture college until 1971; when it helped form the basis for the College of Education. It returned to the College of Agriculture and Life Sciences in 1991, though it remained affiliated with the College of Education, and later the College of Human Resources and Education.

The new department allows faculty members from the two former administrative units to have joint teaching and Extension appointments. That translates into additional opportunities for those faculty members and additional benefits to their clientele.

"To start there will be minimal changes," Hillison said. "As we continue to work together we will find more opportunities to innovate."

Mike Lambur, who headed the old Extension Education Programming unit is serving as the Extension project leader for the department. There are 14 faculty members and four staff members in the department.

IN OTHER NEWS

Gates grant helps Tech institute expand K-12 technology

By Beth Bottom

The Institute for Connecting Science Research to the Classroom (ICSRC) is among a group of educational institutions in Virginia that will share a \$3.5-million grant from the Bill and Melinda Gates Foundation. The three-year grant will support a collaborative effort towards improving technology leadership in the Virginia public-school system through a program called the Virginia Initiative for Technology and Administrative Leadership (VITAL).

VITAL is comprised of representatives from Virginia Tech, the University of Virginia, the College of William and Mary, the Virginia Department of Education, the Office of the Secretary of Education, the Virginia Educational Technology Alliance, the Virginia Association of School Superintendents, the Virginia Association of Elementary School Principals and the Metiri Group.

The goal of this partnership is to provide training to K-12 school administrators so they can model the effective use of technology in their schools and lead a systemic change for integrating technology into instruction. As school leaders, administrators must acquire technology skills themselves to model effective, sustained use of technology in their school systems. The VITAL training program, which is built on principles of adult learning and systems thinking, will prepare principals and superintendents to use technology to help students meet the Virginia Standards of Learning

(SOL).

"We have been working on this program for the past three years and have had great success in school divisions where we have run pilot training sessions," said John R. Wenrich, associate director of the Institute for Connecting Science Research to the Classroom.

VITAL training will be carried out by the Governor's Best Practice Centers. The centers were developed by the Virginia Department of Education in collaboration with all state universities to help enhance professional development among teachers.

The knowledge base acquired through the VITAL training program will assist school leaders to make more effective management decisions concerning technology. Administrators will learn to develop high-calibre local training programs for teachers that will lead to better integration of technology in the classroom. Teachers will use the Virginia Technology Standards for Instructional Personnel to help students meet their goals. Students will then learn to select and use appropriate technologies to gather, process, analyze data, and report information related to an investigation.

The ICSRC has continually fostered corporate and public-school partnerships to bring university research into K-12 classrooms. Led by founding Director Joy E. Colbert, and coordinated by the Virginia Tech College of Human Resources and Education, the ICSRC

brings together faculty members from the colleges of Agriculture and Life Sciences, Architecture and Urban Studies, Arts and Sciences, Engineering, Natural Resources, and Veterinary Medicine. The faculty members connect with K-12 teachers who share common interests in enriching science and math education.

"Our goal is to assist teachers in leading students to connect with practicing scientists and engineers, to act as field scientists themselves, and to engage in the research process," said Colbert.

The ICSRC's Technology Management for School Leaders (TMSL) is a program that was developed four years ago to help state schools improve students' SOL scores by educating teachers and administrators in instructional technologies. The premise of TMSL lends itself to the philosophy behind VITAL. In the TMSL program, information fundamental to making cost-effective, instructionally sound decisions regarding instructional technologies is made available to school administrators through a continuously updated web site, www.tmsl.org.

TMSL, a major component of the VITAL program, has been introduced in each of the state's eight regions through the Governor's Best Practice Centers. Within each region of the state, there are 12-17 school divisions that utilize these centers.

Students building solar house for decathlon

By Sarah Newbill

Students from Virginia Tech's departments of architecture, industrial design, building construction, and mechanical and electrical engineering will participate in the national Solar Decathlon, a new intercollegiate competition that challenges students to design and construct a fully self-sufficient, solar-powered house.

The U.S. Department of Energy, National Renewable Energy Laboratory, BP Solar and the American Institute of Architects are sponsoring the competition.

During the next year, the student team will design a solar-powered house that meets criteria in 10 competition areas. The houses will be judged on aesthetics and livability and the ability to maintain comfortable interior temperatures. Houses must be designed to ensure normal operation of refrigerators and freezers, provide efficient lighting, and provide all of the energy necessary to heat water for common uses such as bathing, laundry, and dishwashing. Students will develop a computer simulation of the annual energy use by the house.

Each successful house also will provide enough power to operate a small home-based business and to charge an electric vehicle—all

while relying on the sun's energy as the primary power source.

Communications will be a key component of the project, as students will be charged with developing a communications plan and a web site (<http://www.caus.vt.edu/vtsolar/index.htm>) and other outreach materials to effectively explain the solar energy and energy efficiency technologies used in the house.

The goals of the program are four-fold—to illustrate how solar energy can improve quality of life; to teach the solar decathletes and the general public how energy is used in their daily lives and to illustrate the energy intensity of daily activities; to demonstrate that existing market-ready technologies can meet energy requirements of daily activities by tapping into the sun's power; and to meet these needs while providing an attractive structure in which to live, work, and play.

In fall 2002, student teams will transport their houses to Washington, D.C., and assemble them on the National Mall, where they will be judged in the 10 separate contests. During the week-long decathlon, the public can watch the students work and tour the solar-powered houses.

Competing with Virginia Tech will be Auburn University, Carnegie Mellon University,

Crowder College, Texas A&M University, Tuskegee University, University of Virginia, University of Delaware, University of North Carolina at Charlotte, University of Maryland, University of Colorado at Boulder, University of Missouri—Rolla, University of Puerto Rico—Mayagüez, and the University of Texas at Austin.

ROBERTSON

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with Duvall, he has not yet seen him dressed as Lee. "I'm anxious to see how much he looks like Lee," Robertson said. "The agent said the first time they put him in uniform was the first time he believed in reincarnation."

Robertson will be involved through the end of the movie, which is tentatively scheduled for release to theaters at Christmas of 2002.

UNIVERSITY

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and demand, future parking alternatives, transportation alternatives analysis, parking and operations management, management and finances, and short-term and long-term recommendations.

The University and Parking Committee is representing stakeholders for this project. The committee which consists of faculty and staff members, graduate and undergraduate students, also added representatives from the Town of Blacksburg, Blacksburg Transit, Residence Hall Federation and vendors group for this effort.

Customer input and participation is a critical component in assessing the university's current and future transportation needs. An on-line survey was administered to the general public from September 1 through October 15. A Transportation and Parking Fair was held at DBHCC, Alumni Hall on October 24 hosted by the HSMM planning team to solicit input and reaction to preliminary thoughts on the master plan. The final plan is expected to be completed by early December, with information and updates as well as the results of the survey to be made available at www.ot.vt.edu/masterplan.

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