

SPECTRUM

Virginia Tech
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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

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TODAY'S EDITION
See page 3 for
Charter University
forum information.

Agreement with community colleges guarantees admission

By Lori Greiner

Governor Mark R. Warner has presided over the signing of an articulation agreement between the College of Agriculture and Life Sciences and the Virginia Community College System (VCCS). Under this comprehensive, state-wide agreement community-college graduates are guaranteed admission into the College of Agriculture and Life Sciences.

The agreement, called "Pathway to Excellence—Guaranteed Admission Initiative," provides students with a seamless curriculum, instruction, and advising program that maximizes efficiency for degree completion and high-quality instruction.

"The agreement underscores the critical role that our community-college system will play as an entry point for the thousands of new students entering higher education throughout this decade," Warner said. "At the beginning of my term, it was estimated that Virginia would have to accommodate

an additional 60,000 students before the decade was out. The community colleges can and must be a part of the solution."

"Students will have greater access to and choice of agriculture-and-life-sciences educational opportunities, advancing one of the most important economic sectors in the commonwealth of Virginia," President Charles Steger said. "Students will receive the education and training to prepare them for entry into a vast array of career options including biotechnology, nutrition, animal and human health, biosecurity, engineering, food production, environmental science, business, and the list goes on."

Steger also pointed out that the initiative will help Virginia Tech meet the needs of the agriculture-and-life-science industries by providing them with potential employees who have the interest, the experience, and the preparation for careers in these industries.

"We are delighted to offer students an on-ramp to a bachelor's degree in the fields of agricultural and the life sciences—by beginning

their education at community colleges," said Glenn DuBois, chancellor of the Virginia Community College System. "During the two years at a community college, families can enjoy the financial advantage of lower tuition while also having the assurance that community-college courses and the community-college associate's degree will transfer and satisfy Virginia Tech's requirements for the bachelor's degree. More families can afford a good education—and we've opened up many new career fields to community college graduates. We hope that this program will serve as a model that could be expanded to other areas of higher education and serve as a showcase nationally."

Students who choose to pursue admission into the College of Agriculture and Life Sciences through this agreement must sign a letter of agreement and meet with an advisor to develop a plan of study that will best satisfy the requirements for a specific major in the college. The student will be required to meet regularly

(See AGRICULTURE on 4)

Women, Minority Artists and Scholars grants announced

By Clara B. Cox

Recipients of the 2004-05 Women and Minority Artists and Scholars Lecture Series Grants, which provide funding of up to \$500 to supplement departmental or college funds in support of selected events and visits, have been announced by the Office of the Provost at Virginia Tech.

"The grant program was established to increase the diversity of perspectives and creative expression available on campus and to increase the number of women and minority role models for our students," said Patricia B. Hyer, associate provost for academic affairs.

Recipients of the grants, speakers, topics, and scheduled presentations include the following:

Susan Daniels, member of Amnesty International, Argentina Autonomista Fall Tour: *Movements for Social Change in Argentina Today: The Central Role of Women*, Nov. 17, 2004.

Zulia Mena, community organizer and first Afro-Colombian congresswoman in Colombia, *Impacts of Globalization on Communities of Color in Colombia (Latin America) and the New River Valley (Virginia)*, Oct. 4, 2004.

Linsey Marr, assistant professor of civil and environmental engineering in the College of Engineering, for Debbie Niemeier, professor, University of California, Davis: *Identifying Vehicles with High Tailpipe Emissions: Trying to Set Policy with Conflicting Science*, Oct. 15, 2004.

Jesus M. de la Garza, professor of civil

(See WOMEN on 4)

Local representatives support national lab in Giles County

By Susan Truelove

Plans for a Deep Underground Science and Engineering Laboratory in Giles County, presented at a public meeting at Mountain Lake Hotel recently, were greeted with enthusiastic support by representatives from Giles, Craig, and Montgomery Counties in Virginia and Mercer County, W.Va.

Also present were Virginia State Senator John Edwards, Virginia Delegate Benny Keister, and representatives of the Virginia Economic Development Partnership, and Giles County Industrial Development Authority (IDA).

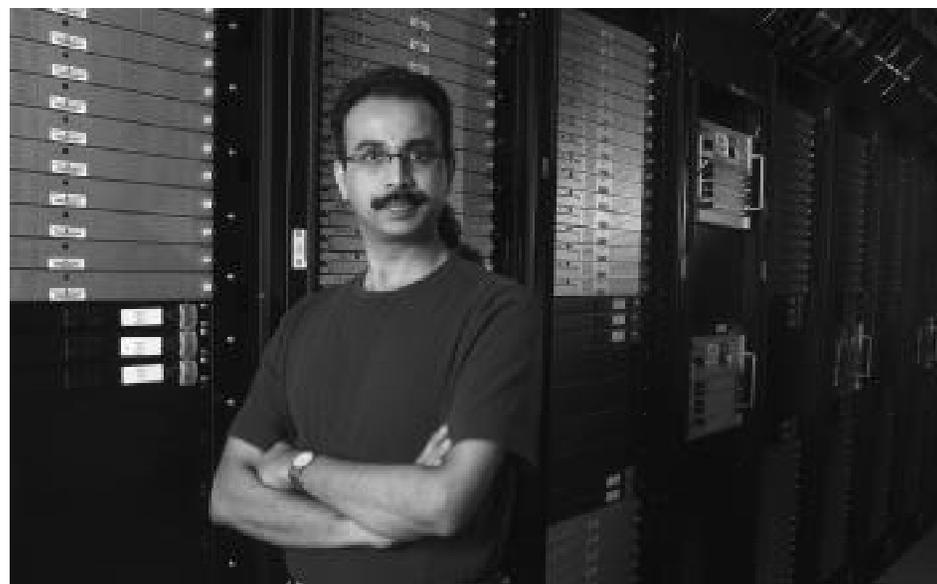
Project spokesman Robert Bodnar called it a "unique opportunity for collaboration between Virginia Tech and the communities of Southwest Virginia and southeast West Virginia."

Virginia Tech researchers have been joined by representatives of 74 other institutions who believe that 7,000 feet under Butt Mountain in Giles County would be the ideal site for the national laboratory.

Project leader Bruce Vogelaar in physics, Bodnar in geosciences, Matthew Mauldon in civil and environmental engineering, and other team members, are responding to the National Science Foundation request for proposals for a Deep Underground Science and Engineering Laboratory (DUSEL), where experiments in physics, geosciences, mining, geoengineering, and other areas could be carried out.

Although the proposal is not due until Jan. 10, 2005, members of the research

(See LOCAL on 4)



Srinidhi Varadarajan, the lead designer of the rebuilt System X, which is now operating at 12.25 teraflops. (J. McCormick)

Rebuilt System X achieves 12.25 teraflops; new world ranking to be unveiled this month

By Lynn A. Nystrom

After achieving international honors and accolades for building System X, the fastest supercomputer at any academic institution in the world (November, 2003 TOP500 List), the university has announced that its rebuilt System X is now operating at 12.25 teraflops.

"Virginia Tech will learn of its new ranking when the list is unveiled in November of this year at SuperComputing 2004 in Pittsburgh," said Srinidhi Varadarajan, the lead designer of the system. "We expect to do well."

"This new number is an increase of almost two teraflops over the original System X," said Hassan Aref, dean of the College of

Engineering. "We are extremely pleased with the performance, using the new Apple machines."

Virginia Tech revealed plans to migrate its cluster of Power Mac G5 desktop computers to Apple's new Xserve G5 in January. The Xserve G5, the most powerful Xserve yet, delivers over 18 gigaflops of peak double-precision processing power per system and features the same revolutionary PowerPC G5, 64-bit processor used in the original cluster of 1,100 Power Mac G5s.

Using the G5s established that a radically different communications technology could be used to create a large-scale scientific

(See REBUILT on 4)

Board of Visitors to meet Nov. 7-8

The Virginia Tech Board of Visitors will hold its quarterly board meeting at 1 p.m. Monday, Nov. 8, in the Board Room of Torgersen Hall (Room 2100).

Board committees will meet that morning at the Donaldson Brown Hotel and Conference Center (unless otherwise noted):

The Academic Affairs Committee meets at 8:30 a.m., conference room F.

The Building and Grounds Committee meets in closed session at 8 a.m. in the Board Room and in open session at 8:45 a.m. in conference room A.

The Finance and Audit will meet in closed session at 7:30 a.m. in the Private Dining Room and at 8:30 a.m. in open session in the Executive Conference Room.

(See BOV on 4)

ACTIVITIES

(Editor's note: For timely and expanded events information, go to the Virginia Tech Events Calendar at <http://www.calendar.vt.edu/main.php>.)

EVENTS

Friday, 5

Women's Studies Research Seminar, noon, 132 Lane Hall: Tom Ewing.

Multicultural Affairs Colloquium, 3:30 p.m., 30 Pamplin Hall: Hart Blanton.

Dance of Nations, 6:30 p.m., Squires Commonwealth Ballroom.

New River Valley Symphony, 8 p.m., Burruss auditorium.

Saturday, 6

Football, noon: at North Carolina.

Sunday, 7

BOV Meets.

Monday, 8

BOV Meets.

Student Affairs/Academic Affairs Task Force Forum, noon to 1 p.m., Squires Brush Mountain Room A.

Tuesday, 9

Faculty Senate, 7 p.m., 129 McBryde.

Wednesday, 10

Women Faculty Research Series, 4 to 5:30 p.m., DBHCC Executive Conference Room: Kee Jeong Kim.

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

Thursday, 11

Veteran's Day Holiday for Staff Members. Student Affairs/Academic Affairs Task Force Forum, 4 to 5 p.m., Squires Brush Mountain Room A.

Faculty/Guest Artist Recital, 8 pm, Squires Recital Salon: Nick Ross, piano.

Friday, 12

Diwali.

YMCA Crafts Fair, noon until 8 p.m., Squires Student Center.

Saturday, 13

VT Open House.

YMCA Crafts Fair, 10 a.m. until 7 p.m., Squires Student Center.

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

Sunday, 14

Eid al Fitr (Ramadan Ends).

VT Open House.

YMCA Crafts Fair, noon until 5 p.m., Squires Student Center.

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

Monday, 15

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

Tuesday, 16

Pay Date for Faculty and Staff Members.

Wednesday, 17

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

Thursday, 18

Women in Mathematics: Career Day at Virginia Tech, 9:30 a.m. to 12:30 p.m., Math Emporium.

Staff Senate, noon, 1810 Litton Reaves.

Football, 7:30 p.m., Lane Stadium: Maryland.

SEMINARS

Friday, 5

MCBB, 12:20 to 1:10 p.m., 102 Fralin: Allen Jones.

Wednesday, 10

ESM, 4 to 5 p.m., 110 Randolph: D.B. Murray, NASA Langley.

Friday, 12

MCBB, 12:20 to 1:10 p.m., 102 Fralin: Mirit Aladjem, NIH.

Wednesday, 17

ESM, 4 to 5 p.m., 110 Randolph: R.W. Ogden, University of Glasgow.

Thursday, 18

Statistics, 3:45 p.m., 409 Hutcheson: Brian Marx.

Friday, 19

MCBB, 12:20 to 1:10 p.m., 102 Fralin: William Cheadle, University of Louisville.

Geosciences, 3:30 p.m., 4069 Derring: Johnnie Moore, University of Montana

BULLETINS

Assessing racial prejudice talk topic

The departments of psychology, marketing, and sociology and the Office of Multicultural Affairs will sponsor a colloquium, "You May Not Be Racist After All: A Psychometric Reanalysis of the Implicit Association Test of Racial Preferences," by Hart Blanton at 3:30 p.m. Friday, Nov. 5, in 30 Pamplin Hall.

Blanton's colloquium will take a critical look at one of the most popular modern techniques for assessing racial prejudice, the Implicit Associations Test.

Blanton is associate professor of psychology at UNC-Chapel Hill, where he also serves as director of the Graduate Program in Social Psychology. Blanton received his bachelor's in psychology at Virginia Tech and his Ph.D. in social psychology from Princeton University.

Blanton's talk is free and open to the public. For more information, contact Susan Anderson at 1-9627.

Dance of Nations scheduled

The Dance of Nations, an evening full of dances and music from around the world, will be held Friday, Nov. 5 from 6:30 until 11:30 p.m. in Squires Commonwealth Ballroom.

This year will feature performances and lessons from E-Touch; Latin Dance Team; Indian Student Association; Iranian Society; Hellenic Student Association; Turkish and Brazilian Dance by Iara Kendrick; Hungarian Student Association; Solely Swing; Hill and Veil; Latin Link; Hoorah Cloggers; 460 West; Society of Indian Americans (SIA); and Latin American and Iberic Graduate Students (LAIGSA).

For more information contact the Cranwell International Center at 1-6527 or CISO at ciso@vt.edu.

ONLINE collaboration showcase set

Network Infrastructure and Services, a unit of Information Technology announces that the "SC Global 2004" high-performance computing showcase will be available via the university's Access Grid (AG) node. A component of the "SC2004 High Performance Computing, Networking and Storage Conference" being held in Pittsburgh, "SC Global 2004" will demonstrate collaborative applications and tools that have been developed over recent years. Virginia Tech's AG node enables individuals in attendance at the local node to ask questions through audio

and video channels during panel discussions, and to participate in "birds-of-a-feather" sessions with other SC Global 2004 attendees around the world.

The date are Tuesday, Nov. 9 through Thursday, Nov. 11. The location is Virginia Tech's Access Grid Node, Research Building XIV Virginia Tech Corporate Research Center.

There is no fee to attend, however attendees are requested to register in advance at the following link: <https://survey.vt.edu/survey/entry.jsp?id=1099328514274>.

Parent Education program offered

Local families are invited to participate in a series of programs aimed at promoting positive relationships between parents and children from 4:30 to 6:30 p.m. Thursday, Nov. 11, in the Wallace Hall atrium. Registration for the classes will begin at 4 p.m.

The program, which is free and open to the public, will include supervised activities for children and light refreshments.

For more information, call 1-2701 or 1-3213; e-mail cajacobs@vt.edu.

Stop Hate conference set

The Face-to-Face: Stop the Hate conference on Saturday, Nov. 13 will be an opportunity for students, faculty and staff members and administrators to learn, listen, and share views and ideas on how to help tolerance, respect, and appreciation of our cultural and personal differences prevail over hate, bias, and narrow-mindedness.

The Face-to-Face Conference will be from 9:45 a.m. until 2 p.m. The conference is free, with a continental breakfast and lunch provided. Registration is required. To register, go to <https://survey.vt.edu/survey/entry.jsp?id=1098459477184>.

The results of the ideas, actions and recommendations will be forwarded to President Charles Steger, the Commission on Equal Opportunity and Diversity, and other key departments, commissions, and university leaders. Face-to-Face is sponsored by the Department of Student Activities, and the Office of Multicultural Affairs.

For more information contact Tim Filbert (tfilbert@vt.edu) in the Office of Leadership Development, Department of Student Activities at 1-3673.

Women in Mathematics scheduled

Virginia Tech faculty members, students, and alumnae

will join approximately 250 young women Thursday, Nov. 18, for Women in Mathematics: Career Day at Virginia Tech, an intergenerational, multimedia, mathematical celebration.

Sixth graders will attend from 17 regional schools. Activities begin at 9:30 a.m. with a welcome session at the Math Emporium on University City Boulevard in Blacksburg. From 9:50 to 11:05 a.m., students will participate in two 35-minute sessions. From 11:40 to 12:15 p.m., students will participate in the final session.

Career Day activities are sponsored by the Department of Mathematics and the National Security Agency.

For more information, contact Susan Anderson at 1-8041 or anderson@math.vt.edu.

Flu vaccine for high-risk students

The Schiffert Health Center has received a very limited supply of flu vaccine for high-risk students. Flu vaccine can be administered only to high-risk students who meet the program and vaccine-eligibility criteria. Students must have a chronic medical disorder such as a pulmonary, cardiovascular, or kidney condition; moderate/severe asthma (requiring daily medication, history of hospitalization, multiple ER visits); have required regular medical follow-up or hospitalization during the preceding year because of chronic metabolic diseases (including diabetes mellitus), kidney disease, blood disorders, or immunosuppression (including immunosuppression caused by medications, cancer treatment, or HIV/AIDS), or be currently pregnant.

This limited supply of vaccine will be offered by appointment only at a specific time within Schiffert Health Center only during the week of November 8. Only students who meet Centers for Disease Control (CDC) guidelines will be offered appointments. Written documentation of risk category from the health-care provider must be presented at the time of appointment.

There will be a charge of \$17. Students should call 1-7621 between 8:30 and 11:30 a.m. and 1:30 and 4:30 p.m. Monday through Friday. For more information, e-mail healthcenter@vt.edu.

Rec Sports sets bench-press competition

The Recreational Sports Fitness Department is hosting its Fourth Annual Bench Press Competition on Saturday,

(See BULLETINS on 3)

BULLETINS

BULLETINS

Continued from 2

Nov. 6 in 125 War Memorial Hall.

Registration fees are \$20 for Virginia Tech students, \$25 for Virginia Tech faculty and staff members, and \$30 for all other participants. To compete in a second division, add \$10 to the registration fee.

Early weigh-in will be held from 4 to 7 p.m. Friday, Nov. 5 in 135A War Memorial Hall. On Saturday, Nov. 6, weigh-in begins at 7 and ends at 9:30 a.m. Rule briefing starts at 9 a.m. with warm-up following, and the Bench Press Competition begins at 9:30 a.m.

For more information, call 1-2543 or go to <http://www.recsports.vt.edu/>.

Holiday schedule announced

The state schedule for the Thanksgiving, Christmas, and New Year's holidays will be as follows: Thanksgiving: Wednesday, Nov. 24—half day; Thursday, Nov. 25—state offices closed; Friday, Nov. 26—state offices closed; Christmas: Thursday, Dec. 23—half day; Friday, Dec. 24—state offices closed; New Year: Friday, Dec. 31—state offices closed.

For more information about the holiday schedule, contact Lou Ann Phipps 231-7784, or e-mail laphipps@vt.edu.

PeopleAdmin training sessions set

Beginning in early November, all faculty searches will be handled through the online application process, PeopleAdmin. All jobs are currently posted at <http://www.jobs.vt.edu> and applicants will now be required to apply for any faculty opening by submitting their application and attaching required documents, such a resume and cover letter.

The training session will show how to manage searches using PeopleAdmin and to become more familiar with features that are available for posting position and handling

applications. Remaining training dates are Monday, Nov. 8 from 8:30 until 10:30 a.m.; Friday, Nov. 12 from 1:30 until 3:30 p.m.; Monday, Nov. 15 from 8:30 until 10:30 a.m.; Friday, Nov. 19 from 8:30 until 10:30 a.m.; Tuesday, Nov. 30 from 1:30 until 3:30 p.m., and Friday, Dec. 3 until 8:30 until 10:30 a.m. The location for all classes is room 153 Southgate Center.

It is important to sign up in advance by sending a note to hriuser@vt.edu so that appropriate authorization can be established before the training session.

ASPIRES workshop offered

ASPIRES is Virginia Tech's internal grant program, and this year's awards will be in two categories: 1) Capital Renovations; and 2) Unrestricted Research Grants. For both renovation and research grants, particular emphasis will be on helping new (untenured) faculty members who have not yet been successful attracting extramural funding. Proposals are invited from all disciplines.

A special workshop will be held on Friday, Nov. 12 from 3 to 4:30 p.m. in Fralin auditorium to acquaint potential applicants with ASPIRES goals and objectives, eligibility requirements, review criteria and application procedures. Due to the requirement for significant cost sharing and letters of support, it may be advisable for department heads and deans to attend as well.

The proposal deadline is Jan. 31, 2005, but a letter of intent is due Dec. 23, 2004. The ASPIRES program announcement and application forms can be downloaded from www.research.vt.edu/aspires/.

To register for the workshop, contact Debbie Nester at debbiell@vt.edu or phone 1-5410. For more information, contact Bob Porter at reporter@vt.edu or phone 1-6747.

Strengthen grant proposals

The Office of the Vice President for Research is offering a workshop on "Strengthening Your Grant Proposal: Building in quality outreach and diversity components." The program will be Monday, Nov. 15, from 3 to 4:30 p.m. in Fralin auditorium.

Presentations will feature an overview of Virginia Tech's Outreach Resources, discussion of NSF's "Broader Impacts" policy, descriptions of sample outreach programs, and perspectives from faculty members who have written outstanding outreach and diversity components into their award-winning proposals.

Seating is limited, so participants should register beforehand. Contact Debbie Nester, debbiell@vt.edu or call 1-5410.

New small-grants program announced

Outreach and International Affairs (OIA) and the Office of International Research, Education, and Development (OIRE) have announced a new competitive small-grants program to support international program development at Virginia Tech. Applicants may apply for a limited number of grants for up to \$1,000 to support curricular projects for development of academic programs dealing with global issues; academic or research development projects to position grantees for larger external funding; and the cost of planning and administering education abroad or student-exchange programs.

The due dates for two cycles of awards are Nov. 15 and March 15. For more information, go to http://www.oired.vt.edu/Education/faculty/faculty_grants.htm.

Recycling Phonebooks, Directories

Phonebooks and campus directories can again be recycled this fall at the VTR Recycling Station located in the Overflow Parking Lot, immediately west of the Duck Pond. The collection bin for these books and directories has been clearly labelled; do not use the bin for other books or papers. The bin will remain in place through the end of February, 2005.

For more information, contact the VTR office at 1-9915 or e-mail recycle@vt.edu.

Charter University Open Forum scheduled

The Staff Senate will join with the Commission on Classified Staff Affairs for its Nov. 18 meeting from 11:30 a.m. until 1:30 p.m. to hold an open forum regarding the Charter University. The meeting will be held in the Donaldson Brown auditorium.

All classified staff members are invited to attend. Contact Sue Ellen Crocker at 1-6493 or e-mail www.career.vt.edu.

Cross to present alumni-leadership lecture

By Lynn Davis

The College of Natural Resources will present the first Gerald Cross Outstanding Alumni Leadership Award to David Patton, dean of the Professional Schools and School of Forestry at Northern Arizona University, on Thursday, November 18, when Patton gives a special lecture at 1 p.m. in Fralin auditorium. A reception will follow in the Fralin atrium.

Patton, an internationally known wildlife expert, will speak on "The Management Philosophy of Looking Good: A Work and Life Formula For Success." He has worked as

a wildlife professional for the U.S. Forest Service; director of the Center of Wildlife Management in Kenya, Africa; director of the Center of Indigenous Studies in Southwestern U.S.; and as director of tropical-rainforest studies in Australia.

The fisheries and wildlife science department established the Gerald Cross Outstanding Alumni Leadership Award in honor of Cross upon his retirement as associate professor and a former department head. Cross designated the award to honor alumni who are

(See CROSS on 4)

Marion duPont Scott Equine Medical Center to host lectures

By Jeffrey S. Douglas

The Marion duPont Scott Equine Medical Center in Leesburg, one of three campuses operated by the Virginia-Maryland Regional College of Veterinary Medicine, has announced the 2004-05 schedule for its "Tuesday Talks" equine lecture series.

The informal lectures feature equine medical center faculty members and guest speakers discussing topics of interest in equine veterinary medicine. This winter, four lectures will be offered.

(See MEDICAL CENTER on 4)



VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

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EMPLOYMENT

For more information on all faculty and classified-staff positions, see www.jobs.vt.edu.

INSTRUCTIONAL

Philosophy Department. Assistant Professor (Ethics).

Philosophy Department. Assistant Professor (Political Philosophy).

Management. Instructor (one full-time or two half-time positions).

School of Architecture + Design. Assistant Professor. Environmental Technology and Building Sciences.

Aerospace and Ocean Engineering. Assistant/Associate/Full Professor. Aerospace Engineering.

History Department. Assistant Professor of Medieval/Renaissance European History.

History Department. Assistant Professor of African History.

Horticulture Department. Rhizosphere Molecular Biologist. Assistant Professor.

Interdisciplinary Studies. Assistant Professor in Islamic Studies.

Foreign Languages/Literatures. Assistant Professor/Associate Professor. German (2 positions).

Computer Science. Open Rank Tenure Track Position. Computer Science. Bioinformatics.

Communication Studies. Assistant Professor. Communication.

Communication Studies. Assistant Professor. Communication.

Political Science. Assistant Professor of Political Theory.

Political Science. Full/Associate/Assistant Professor of Political Theory.

NON-INSTRUCTIONAL

Institute for Critical Technologies/ Applied Sciences. Research Assistant Professor.

Virginia Bioinformatics Institute. Bioinformatics Research Center (BRC) Database Analyst.

Engineering Education. Post-doctoral Associate.

Forest Nutrition Cooperative. Research Associate.

Virginia Bioinformatics Institute. Immune System Simulator Scientific Project Manager.

Virginia Bioinformatics Institute. Scientific Web Developer/Data Curator.

Central District Cooperative Extension. Extension Agent. 4-H Youth Development. Campbell County.

Central District Cooperative Extension. Extension Agent. 4-H Youth Development. Appomattox County.

Southeast District Cooperative Extension. Extension Agent. 4-H Youth Development. City of Petersburg.

Northern District Cooperative Extension. Extension Agent. 4-H Youth Development. Caroline County.

Virginia Cooperative Extension. 4-H Project Associate. Rockingham County.

WOMEN

Continued from 1

and environmental engineering in the College of Engineering, for Patricia D. Galloway, ASCE national president and CEO of the Nielsen-Wurster Group: *The Mission of the Civil Engineer in the Movement of Globalization*, Oct. 15, 2004.

Michael Saffle, professor of interdisciplinary studies, for Inna Golovakha-Hicks, professor, Ukrainian Academy of Sciences, Kyiv, Ukraine: *Death and the Life of Fairy Tales in Contemporary Ukrainian Mountain and Plains Villages*, Oct. 29, 2004.

Bruce Goldstein, assistant professor of urban affairs and planning in the College of Architecture and Urban Studies, for Judy Layzer, assistant professor, MIT: *Measuring the Effectiveness of Collaborative Ecosystem Management*, Nov. 2004.

Bevlee Watford, associate dean for

academic affairs, College of Engineering, for Kristina Johnson, dean of engineering, Duke University: 1) *Center for Interdisciplinary Engineering*, 2) *Starting Your Own Company*, 3) *The Path to Becoming a Dean*, Nov. 11-12, 2004.

Chishamiso T. Rowley, assistant professor of sociology at in the College of Liberal Arts and Human Sciences, for M. Scott Johnson, artist, Schomberg Center for Research in Black Culture: *From the Pyramids to Mozambique: The Role of the Atavistic Imagination in an African Artistic Production*, spring 2005

Marie C. Paretto, assistant professor of engineering education at in the College of Engineering, for Dorothy Winsor, professor, of English, Iowa State University: *How Engineers Use Writing to Create Knowledge in the Work Place*, spring 2005.

Tremayne O. Waller, Center for Enhancement of Engineering Diversity, for Jabbar R. Bennett, research specialist, Harvard

Medial School's Office for Diversity and Community Partnership:

Who Counts? Diversity in STEM (Science, Technology, Engineering, and Mathematics), Feb. 20, 2005.

Fred D'Aguiar, professor of English and co-director of Creative Writing, for Diana Abu-Jaber, professor at Portland State University, author, and NPR commentator: *Women and Islam*, Feb. 24, 2005.

Mary Grace Campos, program coordinator for the Women's Center; Mary Taylor, president, RYKA: *--Leading a Niche Business in the Corporate Sector*, March 2005.

Bernice Hausman, associate professor of English in the College of Liberal Arts and Human Sciences, for Farzaneh Milani, professor of Persian and women's studies, University of Virginia: *Women and Modernity in Iran*, March 2005.

Anne Margaret Baxley, assistant professor of philosophy in the College of

Liberal Arts and Human Sciences, for Karen Stohr, assistant professor of philosophy, Georgetown University: *The Importance of Being Proper: Manners as a Manifestation of Practical Wisdom*, April 8, 2005.

Terry W. Burcin, president of the History Graduate Student Association, for Madeline Zilfi, associate professor, University of Maryland: *Women in the Middle East*, April 8, 2004.

BOV

Continued from 1

The Student Affairs Committee meets at 9 a.m. in the Dietrick Hall (D2) Private Dining Room to tour the recently renovated facility, and the open meeting will begin at 9:30 a.m.

Topics under consideration are a collaboration agreement between Virginia Tech and the University of Maryland, Baltimore; financial performance reports, and approvals to execute banking and security agreements.

The Special Committee on Research will meet from 1:30 to 2:30 p.m. in the Donaldson Brown Hotel and Conference Center Executive Conference Room on Sunday, Nov. 7. The full board will hold an information session Sunday, Nov. 7 at 3 p.m. in the Torgersen Board Room.

REBUILT

Continued from 1

computing platform. After proving the technology worked, the university moved to the Xserve G5 cluster due to its server-optimized architecture, computing power per unit density, and ground-breaking performance and innovative management tools.

The original System X operated at 10.28 teraflops for the official records, but its peak theoretical performance was rated at 17.7 teraflops.

When Virginia Tech renegotiated with Apple to upgrade System X, the computer company arranged for 1,100 special Xserve G5 servers to power their System X Supercluster. These systems were custom built by Apple for Virginia Tech utilizing dual 2.3GHz G5 processors. This configuration was developed specifically for Virginia Tech, and Apple currently has no plans to offer 2.3GHz processors in the Xserve G5 product line.

Varadarajan and Cal Ribbens, both of the Computer Science Department in the College of Engineering, confirmed the new benchmark numbers after numerous operations since August. Kevin Shinpaugh and Jason Lockhart, associate directors of the Terascale Computing Facility, assisted on the project, as well as other members of the College of Engineering and the information-technology office.

The supercomputer is part of the university's Institute for Critical Technology and Applied Science (ICTAS). ICTAS fosters multi-disciplinary, large research projects. The grand challenge problems in science and engineering that can only be solved by a powerful supercomputer meet these criteria.

"We believed that we could build a very high-performance machine for a fifth to a tenth of the cost of what supercomputers now cost, and we did," Aref, a former chief scientist at the San Diego Supercomputer Center, said. "And we wanted to have our own supercomputer to use for ICTAS where we will be conducting multidisciplinary work on such topics as

nanoelectronics, aerodynamics, and the molecular modeling of proteins. With this machine, our researchers will be able to build computer modeling in days, not years."

The additional cost to rebuild System X was about \$600,000, and it included 50 additional nodes. The original cost of System X was \$5.2 million.

LOCAL

Continued from 1

team have been eager to explain the project, since community support is part of the proposal.

"Research at the site would include study of deep outer space, the particles the sun and other stars send shooting through the earth, a protected environment and new technologies for creating pure supersensitive radiation sensors and pure fluids for semiconductors, the science for locating and wresting petroleum and minerals from the earth, how

rocks clean up water and what we could learn from that process, how far under the earth life exists, and mining technologies that will extend our access to the earth's resources," Bodnar said.

Based on an economic study done for a proposed DUSEL in Cashmere, Wash., Bodnar told the gathering that construction would take three to five years, cost between \$200 and \$400 million and that two-thirds of the workforce would be from the local area, that there would be a permanent staff of about 75, that the operating budget would be \$15 to \$25 million a year, the science budget would be \$25 million a year—much of it spent locally, that some 700 researchers would visit annually, and that the visitor and education center would host 250,000 visitors a year, most of them K-12 education groups.

Edwards asked how soon work would start. Bodnar said NSF is expected to select three to five sites for further study in spring 2005 based on proposals submitted Jan. 10. Funding for the lab would be a line item in the 2008 budget, with funding in 2009. Later, Bodnar said that there was no guarantee that the project would be funded. Vogelaar added that NSF has planned and managed such major research, equipment, and facilities projects in the past.

Bodnar said the exact site and access point under Butt Mountain have yet to be identified. He told a questioner that the laboratory would be under national forest land but that the access would be dictated by the geology.

MEDICAL CENTER

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"Colic: What Every Horse Owner Should Know About Critical Care Treatment," will be presented on Tuesday, Nov. 30, by Jennifer Brown, instructor in emergency care and equine surgery at the Marion duPont Scott Equine Medical Center.

"Laminitis: Treat It and Beat It," will be presented on Tuesday, Jan. 11, by Nathaniel A. White II, director of the Marion duPont Scott Equine Medical Center; and David S. Kronfeld, the Paul Mellon chair in agriculture at Virginia Tech, and head of the Middleburg Agricultural Research and Extension Center.

"Treating Hoof Problems" will be presented on Tuesday, Feb. 8, by R. Scott Pleasant, equine Extension specialist, Virginia-Maryland Regional College of Veterinary Medicine, Blacksburg campus.

"Diagnosis and Management of the Septic Foal" will be presented on Tuesday, March 8, by Harold C. McKenzie III, assistant professor of equine medicine at the Marion duPont Scott Equine Medical Center.

All lectures begin at 7 p.m. in the equine medical center's library. No fee is charged for the lectures, but seating is limited and reservations are required.

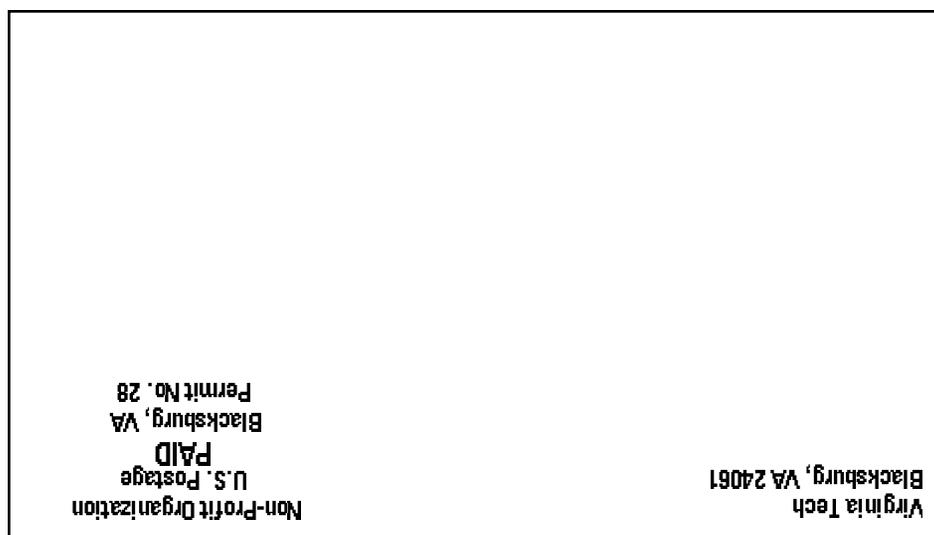
More information is available at the "educational opportunities" link at <http://www.equinemedicalcenter.net>.

AGRICULTURE

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with an advisor to monitor progress to ensure compliance with his/her letter of agreement. To meet requirements for guaranteed transfer status, the student must complete an associate's degree with a minimum cumulative grade point average of 3.0 (on a 4.0 scale), including a minimum core of specified courses.

The terms of this agreement go into effect immediately and the first students are expected to matriculate into the College of Agriculture and Life Sciences beginning in fall 2005.



CROSS

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widely recognized for outstanding leadership in their profession. The award is solely funded by the Gerald Cross Endowment.

Believing that good leadership is more crucial than ever for the times which we now live, Cross said, "A leader develops a vision of the future, produces strategies needed to achieve that vision, aligns people to support the vision, and inspires people to overcome barriers to change."