

# SPECTRUM



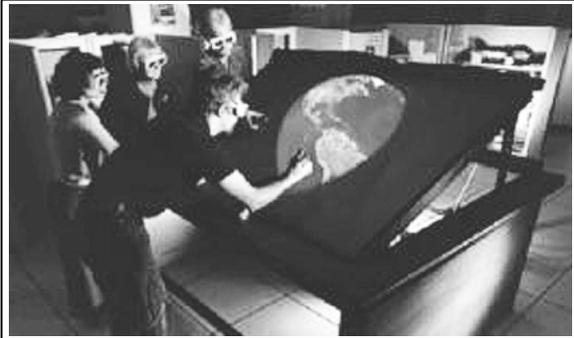
VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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

VOLUME 22 NUMBER 22 FRIDAY, FEBRUARY 25, 2000

TODAY'S EDITION  
See page 3 for  
News Commentary.

## NASA's Digital Earth Project focus of Virginia Tech program



The Digital Earth Workbench provides views of Earth-related information. (NASA)

By David Nutter

NASA's digital mapping of the Earth's surface and its willingness to share that information with the faculty and students at Virginia Tech and other universities will be the focus of a half-day program on Tuesday, Feb. 29.

The program begins at 9:30 a.m. at the Donaldson Brown Hotel and Conference Center and will end at 12:30 p.m. The program is free and open to all interested persons.

"DEVELOP, the Digital Earth Virtual Environment and Learning Outreach Project, is designed to take the data NASA has generated from its global-survey initiative and put that out to people and develop new ways to use it," said John Galbraith, an assistant professor in crop and soil environmental sciences and project leader.

"This project is like the Internet. We don't

yet know today how this information will be used tomorrow," Galbraith said. "We want to tap into the creativity, talent, and innovation of the faculty members, students and staff members at Virginia Tech to explore how this data can be used to benefit society."

The symposium is sponsored by the Department of Crops and Soil Environmental Sciences (<http://clie.cses.vt.edu/>) and the Virginia Tech Office of Geographic Information Systems and Remote Sensing program (OGIS) (<http://www.fw.vt.edu/ogis/>). Information about the DEVELOP program can be reached at DEVELOP (<http://develop.larc.nasa.gov>).

Students from Virginia Tech CAVE student user group will participate in the program to talk about ways to utilize the NASA data in a virtual environment. The

(See DIGITAL EARTH on 4)

## General Assembly money committees meet to discuss budget

By Ralph Byers,  
director of government relations

As the 2000 General Assembly passed its halfway mark, the so-called money committees met on February 20 to unveil their recommendations for changes and additions to the Governor James Gilmore's introduced budget. Transportation, mental health, and teacher's salaries were considered the priority issues for additional funding.

For higher education, this meant modest increases over Gilmore's recommendations. For example, the Senate Finance Committee recommended \$47 million in increased operating support for all of higher education for the two year period; \$10.8 million of this was directed to community-college workforce training, leaving about \$18 million per year to be divided among the 16 other institutions.

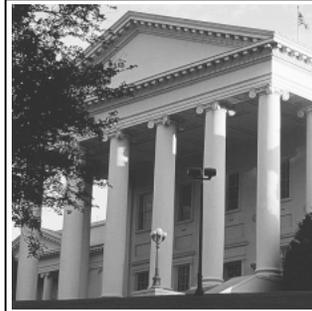
Both the House and Senate chose to increase faculty salaries above the 2.4 percent recommended by Gilmore, to an aver-

age of 3.5 percent across the system. This is expected to keep institutions at the 60th percent-

ile of their peer groups. The Senate also recommended an increase in classified employees' salaries to reach the 3.5-percent level. The House did not address this issue but recommended certain benefit increases for state workers.

A major difference between the House and the Senate for higher education is the treatment of capital outlay. The Senate recommended about \$103 million in General Fund support

for capital outlay, including \$10 million to continue the Upper Quad project at Virginia



GENERAL ASSEMBLY  
UPDATE

Tech. The House, on the other hand, has adopted a bill calling for a General Obligation Bond of about \$300 million for higher education that would be approved by the voters in the fall. This bill includes \$15 million for the Upper Quad and \$1.5 million for the Livestock Teaching Arena. For the past several years the Senate has declined to approve similar bond proposals.

There were a number of differ-

ences between the House and Senate operating proposals for Virginia Tech. The major amendment on both sides is for critical operating support; the Senate includes \$1.5 million per year; the corresponding figure in the House is \$1.1 million. Amendments funded on both sides include the Alexandria Research Institute (\$500,000 per year) and the Unique Military Allowance (\$200,000 per year, Senate; \$90,000 per year, House). Amendments found only in the Senate include the Minority Academic Opportunities Program ((\$100,000 per year), the Center for Coal and Energy Research (\$75,000 per year), and Agriculture Specialists (\$50,000 per year).

Amendments funded only by the House include student financial aid (\$1.8 million for the biennium), the Equine Medical Center (\$200,000 for the biennium), and a study commission on rural prosperity (\$150,000 for the biennium). The House also included

(See MONEY on 4)

## National Reading Day activities scheduled

By Catherine Doss

More than 400 students from six regional elementary schools will be visiting campus Thursday, March 2 to participate in Virginia Tech's first National Reading Day program. Coordinated through the Office of Scholarships and Financial Aid (OSFA), the event is designed to bring together elementary-school students and university faculty and staff members and students for a day of reading and other activities.

"We want to promote the fact that reading is fun and impress upon them the practical applications of reading," said Holly Schoenhoff, OSFA federal work-study coordinator.

Dozens of volunteers from the campus

community will be participating in the event, which will be held from 9:30 a.m. to 2 p.m. in Owens Banquet Hall. These include members of the Corps of Cadets, student athletes, Alpha Phi sorority, the Key Club, Circle K, the Alumni Association, and many faculty and staff members.

"We are so pleased with the depth and breadth of activities that will be taking place," Schoenhoff said. "Interest within the campus community has been overwhelming."

Volunteers, including a number of student athletes, will read and interact with the students. Other activities will include making bookmarks, sock puppets, and a storybook quilt.

The event is being organized and conducted by members of the Virginia Tech America Reads/

America Counts tutoring program, a federal work-study initiative that pays undergraduates to providing one-on-one reading tutoring to youngsters in local schools. Virginia Tech's Service Learning Center helps OSFA administer the program, which currently has more than 50 students enrolled.

"We get a lot of positive feedback from elementary-school teachers who tell us how much the work-study students have helped in their classrooms," Schoenhoff said. "It's mutually beneficial because the students who participate gain experience and a deep satisfaction that they have made a difference in some youngsters' lives."

For more information, contact Keith Hevey at 552-8314 or Jennifer Erling at 553-3079.

## MIT joins ETD project

By Susan Trulove

Ann J. Wolpert, director of libraries at the Massachusetts Institute of Technology (MIT), announced in January that MIT is joining the Networked Digital Library of Theses and Dissertations (NDLTD). Based at Virginia Tech, the NDLTD is an initiative to increase the availability of student research for scholars and to preserve it electronically; the organization has an international membership of 78 universities/libraries.

Virginia Tech led the nation in 1996 when it required graduate students to post theses and dissertations on the Internet. Since then there has been a growing movement in

(See MIT on 4)

# ACTIVITIES

## EVENTS

### Friday, 25

**Women's Month Program**, noon-1:30 p.m., Hillcrest dining room: Muriel Lederman, Bernice Hausman, Rebecca Scheckler, Leslie Graham.

**Black History Month Program**, 7-9:30 p.m., Squires Colonial Hall: Angela Davis.

**Student Recital**, 8 p.m., Squires Recital Salon: Jackie Wells.

**Theatre Event**, 8 p.m., Squires Studio Theatre. *Rhinoceros*.

### Saturday, 26

**Student Recital**, 3 p.m., Squires Recital Salon: Tim Galyen.

**Black History Month Banquet**, 6:30 p.m., Owens Banquet Hall.

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

**Theatre Event**, 8 p.m., Squires Studio Theatre. *Rhinoceros*.

### Sunday, 27

**YMCA Hike**, 1:30 p.m., 403 Washington St.: Laurel Creek.

**Men's Basketball**, 2 p.m.: At Duquesne.

**Theatre Event**, 2 p.m., Squires Studio Theatre. *Rhinoceros*.

**Women's Basketball**, 2 p.m.: At Dayton.

**Student Recital**, 3 p.m., Squires Recital Salon: Johnathan Shachter, Kelly Corbett.

**Student Recital**, 8 p.m., Squires Recital Salon: Jaime Williams.

### Tuesday, 29

**CEUT Workshop**, 2-4:30 p.m. Hillcrest: "Speaking Across the Curriculum."

**Theatre Event**, 8 p.m., Squires Studio Theatre. *Rhinoceros*.

## MARCH

### Wednesday, 1

**Salary and Wage Paydate.**

**Men's Basketball**, 7 p.m., Cassell Coliseum: LaSalle.

**"With Good Reason,"** 7 p.m., WVTF: Topic TBA.

### Thursday, 2

**YMCA Slide Show**, noon, Cranwell Center: Jenny Golding.

**CEUT workshop**, 3-5:30 p.m., Hillcrest: Peter Doolittle

**CEUT program**, 3-5:30 p.m. Library Classroom B: Fun With GenBank.

**Women's Month Program**, 7:30 p.m., Lyric Theatre: Ubaka Hill.

### Friday, 3

**Women's Basketball**, Time TBA: At Philadelphia, A-10 Tournament.

## SEMINARS

### Friday, 25

**Highlands in Chemistry**, 11 a.m., 3 Davidson: George Stanley, LSU.

**MCBB**, noon, 102 Fralin: Ross Whetten, N.C. State.

**Communication Studies**, 3:30-4:30 p.m., Hillcrest conference room: Matt McAllister.

**Botany**, 4 p.m., 1076 Derring: Leonard Pysh, Roanoke. **STS**, 4 p.m., 132 Lane: Rose-Mary Sargent, Merrimack.

### Monday, 28

**Horticulture**, 4 p.m., 101 Saunders: Tom Saunders, Saunders Bros. Nursery.

### Tuesday, 29

**Electrical/Computer Engineering**, 3:30-4:30 p.m., 300 Whittemore: Ira Jacobs.

## MARCH

### Wednesday, 1

**ESM**, 4 p.m., 110 Randolph: John Duke Jr.

**STS**, 4 p.m., 132 Lane: Sue Hagedorn.

**Horticulture Gardens**, 7 p.m., Greenhouse classroom:

### Thursday, 2

**Statistics**, 3:45 p.m., 409 Hutcheson, Raj Singh and Howard Hogan.

**Geological Sciences**, 4 p.m., 4069 Derring: Christian Teyssier, Minnesota.

**Plant Physiology**, 4 p.m., 102 Saunders: David Drahos, Sybron Chemical.

### Friday, 3

**Highlands in Chemistry**, 11 a.m., 3 Davidson: Bruce Moyer, Oak Ridge.

**MCBB**, noon, 102 Fralin: Christopher Hogue, SLARI.

**Statistics**, 3:45 p.m., 409 Hutcheson: Raj Singh and Howard Hogan.

### Leave donations requested

An employee in recreational sports has requested a leave donation. There is also a Physical Plant employee who has requested leave donations.

Leave donations received after the employee's eligibility status changes (such as, return to work, disability retirement, retirement, etc.) will be returned to the donor in accordance with established Personnel procedures. However, leave donations must be offered to either a specific individual or area.

### Ubaka Hill to perform

The Women's Center, in association with Women's Month 2000 will present a performance by Ubaka Hill at the Lyric Theatre on Thursday, March 2 at 7:30 p.m. Admission is free. Hill has been a nationally known performer for over 20 years, a teacher of drumming, and recording artist.

She is the founder of the Drumsong Institute Museum and Archive of Women's Drumming Traditions based in Catskill, N.Y. Hill performs solo concerts as well with her ensemble Shape Shifters and is the musical director of the Drumsong Orchestra, a national women's drumming orchestra.

## BULLETINS

For more information, please call the Women's Center at 1-7806.

### CEUT plans workshops

The Center for Excellence in Undergraduate Teaching will present two workshops next week. "Student Presentations: Speaking Across the Curriculum" will be Tuesday, Feb. 29, 2-4:30 or Tuesday, March 28, 2:30-4 p.m., in Hillcrest. Presenters will be Rachel Holloway and Marlene Preston

The workshop Tuesday, Feb. 29, from 2-4:40 p.m. in Hillcrest will assist teachers who want to create opportunities for students to explain what they know, and will address many aspects of formal and informal presentations: building the assignment, clarifying expectations, assisting students with planning and delivery, and evaluating. It will be presented by Rachel Holloway and Marlene Preston.

"Evaluating Multiple-Choice Questions: A Working Session" will be presented by Peter Doolittle Thursday, March 2, from 3 to 5:30 p.m. The workshop is designed to be a working session where participants discuss and evaluate their own and others' multiple-choice questions. A brief introduction to multiple-

choice questions will be provided; however the majority of time will be spent discussing practical questions of participants. This workshop is designed as a follow-up to the "Writing Better Multiple-choice Questions"; however attendance at this preceding workshop is not required.

To register for either workshop, go to <http://www.ceut.vt.edu>.

### Program discusses feminist pedagogy

Four faculty members will present a Women's Month program Monday, February 28, from noon to 1:30 p.m. in the Hillcrest dining room. Program is titled "Feminist Pedagogy Across the Disciplines." Panelists will be Muriel Lederman, biology; Bernice Hausman, English; Rebecca Scheckler, instructional technology; and Leslie Graham, electrical and computer engineering.

There will be ample time for questions and discussion. Participants are encouraged to bring a lunch; beverages and cookies provided.

For more information, call Muriel Lederman at 1.5702 or e-mail [lederman@vt.edu](mailto:lederman@vt.edu).

## Nationally known advising consultant to speak here

By Catherine Doss

Virginia Gordon, nationally known expert on developmental advising in higher education, will speak at Tuesday, Feb. 29, at 1:30 p.m. in 150 Squires. The presentation is free and open to all faculty members and advisors.

Gordon is a former president of the National Academic Advising Association and writes extensively on developmental and career advising. She is an adjunct associate professor in the College of Education at Ohio State University, where she teaches undergraduate- and graduate-level courses in vocational theory and practice, academic advising, and adult education. She supervises instructors of academic and career-planning courses for undergraduate students. Among her many

publications, she co-authored the textbook used for the course.

The concept of developmental advising focuses on facilitating students to become more independent by advising them on a variety of issues in addition to helping them plan their academic course schedules.

Gordon's visit is part of the university's on-going focus on enhancing undergraduate student advising. Her visit is sponsored by the Office of the Provost, University Studies, and the Center for Excellence in Undergraduate Teaching.

For more information, contact Cheryl Adkins at 1-6122 or by e-mail at [cladkins@vt.edu](mailto:cladkins@vt.edu).

## Gallaudet dancers to perform

By Catherine Doss

The Gallaudet Dance Company (GDC) will perform "Forty-five Years of Deaf Dance," Sunday, March 5 at 2 p.m. in Squires Haymarket Theatre. The performance is free and open to the public on a first-come, first-served seating basis.

The GDC is a performing group of 15 dancers who are all students at Gallaudet University, the world's only accredited liberal arts university for deaf and hard of hearing students. Some of the dancers had dance experience before attending Gallaudet, while others started dancing after they entered the university. Every dancer in the company has a hearing loss of some degree. Regardless, they are all excellent communicators and rely on vision as their primary mode of communication.

Begun in 1955 as a recreational dance club, the GDC has earned critical acclaim over the years and now performs a variety of dance forms, including modern dance, tap, ballet,

jazz, and sign-language dance. The company has performed throughout the United States as well as France, Israel, Canada, Denmark, Peru, Costa Rica, Barbados, Guatemala, and the Bahamas.

The performance is sponsored by Interpreting and Sensory Loss Services, a unit of Virginia Tech's Dean of Students Office and is made possible through affirmative-action-incentive and student-affairs programming grants. Interpreting and Sensory Loss Services provides educational access to students who are deaf or hard of hearing. These services include interpreting, note taking, telecommunications devices for the deaf (TDD's), and assistive listening devices (ALD's).

Anyone requiring special accommodations to attend the dance performance should contact Connie Wilkinson at 1-4499 or 1-1740 (TTY), or e-mail her at [cwilkin@vt.edu](mailto:cwilkin@vt.edu). For more information about interpreting and sensory-loss services at Virginia Tech, visit <http://www.dos.vt.edu/SSD/default.html>.

# EMPLOYMENT

## CLASSIFIED POSITIONS

The following classified positions are currently available. More details of these positions, specific application procedures and position-closing dates may be found on the Personnel Services web site at <http://www.ps.vt.edu>. Available positions are also listed on the Job Line, a 24-hour recorded message service. For information on all job listings, call 1-5300. Some of the following positions include state benefits. Positions with numbers beginning with a "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

**Animal Care Technician C**, 2639M, Grade 7, Veterinary Teaching Hospital.  
**Applications Analyst**, 7354D, Grade 0, Computing Center.

**Boiler Operator Assistant**, 338C, Grade 4, Power Plant.

**Budget Analyst**, 6935T, Grade 10, Budget/Financial Planning.

**Budget Manager**, 7567T, Grade 14, Budget/Financial Planning.

**Business Development Liason (Public Relations Specialist)**, 7568J, Grade 10, MPRRG.

**Carpenter**, 7563G, Grade 7, Physical Plant.

**Development Program Researcher**, 7565D, Grade 9, University Development.

**Electrical Supervisor (B&G Supervisor A)**, 340G, Grade 9, Physical Plant.

**Electrician**, 7565G, Grade 7, Physical Plant.

**Executive Secretary**, 7576J, Grade 6, MPRRG.

**Executive Secretary Senior**, 2407M, Grade 7, Biological Systems Engineering.

**Fiscal Technician**, 7193J, Grade 6, MSE

**Fiscal Technician Senior**, 4190J, Grade 8, Sponsored Programs.

**Five full-time food-operations positions available**; two part-time positions.

**Food Operations Manager A (Sous Chef)**, 6508G, Grade 8, DBHCC.

**Food Operations Manager B/Executive Chef**, 0837H, Grade 10, Residential/Programs/West End Market.

**Food Operations Manager B/Execu-**

**tive Chef**, 1781H, Grade 10, Residential/Dining Programs/Dietrick Dining Hall.

**Housekeeping Supervisor**, 7571G, Grade 4, Physical Plant.

**Housekeeping Worker**, 0171H, Grade 1, Residential/Dining Programs.

**Housekeeping Worker**, 7261G, Grade 1, Recreational Sports.

**Housekeeping Worker**, 7572C, Grade 1, Physical Plant.

**Installation and Repair Technician**, LC073G, Grade 8, Hokie Passport.

**Mechanical Engineer**, 1198G, Grade 12, Physical Plant.

**Office Services Specialist**, 1945J, Grade 5, Near Environments.

**Office Services Specialist**, 0242H, Grade 5, Residential/Dining Programs/Culinary Services Administration.

**Office Services Specialist (Motor Pool Dispatcher)**, 7560T, Grade 5, Motor Pool.

**Office Services Specialist/Unit Secretary**, 0148, Grade 5, Residential/Dining Programs/Dietrick Dining Center.

**Operating Systems Analyst**, 1244D, Grade 0, AIS.

**Plumber/Steamfitter**, 7278H, Grade 7, Residential/Dining Programs/Facilities.

**Program Support Technician**, 1421D, Grade 6, University Development.

**Program Support Technician**, 7566J, Grade 6, Mechanical Engineering.

**Program Support Technician**, 6137T, Grade 6, CAS.

**Public Relations Assistant Specialist**, 4492J, Grade 8, Center for Transportation Research.

**Public Relations Specialist**, 7549J, Grade 10, Center for Transportation Research.

**Recruiter**, 7570D, Grade 10, Personnel Services.

**Sheet Metal Worker**, 7562C, Grade 7, Physical Plant.

**Student Programs Coordinator**, LC063D, Grade 12, Alumni Relations.

### Part Time

**Banquet/Setup (Foa-b)**, W022143G, Grade 2, DBHCC.

**Executive Secretary**, W022984T, Grade 6, University Leadership Development.

**Food Operations Manager A (Assistant Manager, operations)**, W022990H, Grade 8, Residential/Dining Programs/Personal Touch Catering.

**Housekeeping Worker**, W020574G, Grade 1, DBHCC.

**Housekeeping Worker**, W022490H, Grade 1, Residential and Dining Programs.

**Office Services Assistant**, 1075T, Grade 4, Center for Interdisciplinary Studies.

**Office Services Specialist**, W022980, Grade 5, University Registrar.

**Office Services Specialist**, W022275G, Grade 5, Health Center.

**Program Support Technician**, W022188T, Grade 6, AIS/HRIS Team.

**Public Relations Assistant Specialist/Web Designer**, W022976H, Grade 8, Residential and Dining Programs/Marketing/Conference Services.

**Radiologic Technologist**, W022238G, Grade 7, Health Center.

**Starter/Marsall/Shop Attendant (Office Services Aide)**, W022113G, Grade 2, Golf Course.

**Trades/Utilities Worker (Trades Helper)**, W022966H, Grade 3, Residential/Dining Programs/Facilities.

### University Only

**Command Pilot**, U2129T, Grade 14,

Air Transportation Services.

**Laboratory Specialist**, U7577M, Grade 8, Biochemistry.

**Program Support Technician Senior**, 7544G, Grade 7, Physical Plant/Utilities.

### Off Campus

**Evening Announcer**, 1962D, Grade 8, WVTF.

**Program Support Technician**, 7543J, Grade 6, NVC—Computer Science.

**Program Support Technician**, 5435M, Grade 6, Virginia Cooperative Extension—Nelson County.

**Secretary Senior**, 5783M, Grade 5, Virginia Cooperative Extension—Mecklenburg County.

## FACULTY POSITIONS

### INSTRUCTIONAL

**Department of Aerospace and Ocean Engineering, Assistant/Associate Professor**. Contact: Bernard Grossman, 215 Randolph (0203). Review begins May 1.

### NON-INSTRUCTIONAL

**University Unions and Student Activities, Student Activities Program Coordinator**. Contact: Alan Glick, 325 Squires (0138). Review begins March 27.

**Mobile and Portable Radio Research Group, Research Associate Professor/Research Assistant Professor/Research Associate**. Contact: Jeffrey Reed, 432 NEB (0350). Review begins immediately.

**Residential and Dining Programs, Residence Director**. Contact: Gail Kirby, 109 E. Eggleston (0428). Review begins March 13.

**Virginia Cooperative Extension, Agriculture and Natural Resources Extension Agent**. #FA676, Commercial Horticulture, Southampton. Contact: Steve Umberger, 122 Hutcheson (0437). Review begins March 13.

## NEWS COMMENTARY

### An Inclusive Graduate Community

*(Editor's note: In last week's issue, Spectrum reported that Virginia Tech has been recognized for the number of doctoral degrees it has conferred on African Americans, Alaska natives, American Indians, and Hispanics. The following commentary discusses the on-going implications of diversity in the graduate community.)*

*By Benjamin Dixon, vice president for multicultural affairs; and Leonard K. Peters, vice provost for research and dean of the Graduate School*

Discussions of diversity in higher education have taken several paths over the last couple of decades. Description designations, which have been neither precise nor precisely analogous, have included diversity, multiculturalism, affirmative action, inclusiveness, etc. We think the phrase "an inclusive academic community" captures the essence of a vision and a goal, one that is based on equity, fairness, and integrity.

The Council of Graduate Schools, of which Virginia Tech is a member, noted in a policy statement on inclusiveness nearly three years ago that:

"[a]ffirmative action has become a major topic of discussion for higher education. In California, the regents of the University of California have excluded race and gender as factors in admission. In Maryland, the Fourth Circuit Court of Appeals eliminated race-based scholarships. In Texas, the Hopwood decision in the Fifth Circuit Court of Appeals barred the use of race as a factor in admission decisions. These and re-

lated decisions have serious implications for universities in other states. Polls conducted in several large cities have shown widespread support for some kind of approach to equity that does not involve preferences or quotas. Affirmative action, previously an issue that received broad and bi-partisan political support nationally, has become a factor that can affect local and national elections."

A fundamental question is: Why should a graduate student body be inclusive, or be diverse? The reasons are several. Most basic is that it is morally and ethically the right thing to do. As a practical matter, increasingly more employers expect workers entering from graduate school to be able to function effectively in multi-cultural and multi-national environments. Essentially, it is a matter of providing all graduate students access to a quality educational experience that opens vistas and opportunities that go much beyond the experiences and benefits of undergraduate programs. A diverse graduate education can prepare and unleash talent, which is not necessarily measured just by GRE scores, and can develop role models for the next generation of students.

Market demands tell us that it makes little sense economically to maintain graduate education programs that ignore a large fraction of our population, particularly as we run headlong into the labor force needs of the Information Age. Looking at an older and on-going example, the paucity of minority faculty members

in higher education is alarming. The Southern Regional Education Board reports that "[o]ne-fourth of college students are people of color, but only one out of every 30 faculty members at predominantly white institutions is a person of color." For the sake of our future generations, we must take advantage of the entire talent pool, not just those from majority groups.

But the most obvious reasons for diversity, as far as we as researchers and scholars are concerned are the contributions that individuals with different experiences and perceptions bring to the breadth and quality of our scholarship. There are significant examples of this. The physics community in the United States benefited enormously from the influx of Eastern Europeans in the early part of the 20th Century. It is not an exaggeration to state that our understanding and supremacy in nuclear physics was built on the minds of an immigrant community. Certainly, they were predominantly white and male; but, they were part of minority communities and were relegated to the most menial tasks in our mills and factories, as Upton Sinclair chronicled in his novel, *The Jungle*.

There are more current examples of the contributions that diversity in a scholarly community bring to the quality and breadth of our scholarship. We are enriched when history is interpreted from diverse views. Eastern civilization and African American studies comple-

(See *INCLUSIVE* on 4)

Virginia  
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VIRGINIA POLYTECHNIC INSTITUTE  
AND STATE UNIVERSITY

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IN OTHER NEWS

**English colloquy series scheduled**

*By Sally Harris*  
The Virginia Tech English Department Colloquy Series has been scheduled for Thursdays at 3:30 p.m. in 120 Williams (unless otherwise noted), with speakers as follows: April 6: Bruce Watson, instructor in the Department of English, will discuss "Blade, Race Relations, and the Ever-Changing Vampire Myth."

April 10: Bradley Lewis, English and Science and Technology Studies, will discuss "Should Ivanov Listen to Prozac? Or The Cultural Politics of Biopsychiatry?" Monday, April 10, at 4 p.m. in DBCHCC room C.

April 13: Mihaela Constantinescu, visiting professor of English from the University of Bucharest. Topic to be announced.

April 20: Len Scigaj, professor of English, will discuss "The Deterministic Ghost in the Machine of Ted Hughes's Birthday Letters."

For more information, visit the web site <http://www.english.vt.edu/~toomey/coll.htm> or call David Toomey of the English department at 1-8506.

**High-school students sponsored**

*By Sally Harris*  
The Virginia Tech Educational Talent Search Program sponsored 13 high-school students to the National Black Student Leadership Development Conference in Richmond in January.

The Stuart Educational Leadership Group Inc. sponsored the conference. Students attended workshops on Afrocentric Leadership, Combating Teen Violence, and Achieving Your Dream, as well as workshops on SAT preparation and scholarship searches. The students also participated in discussion groups, one on Brother to Brother and one on Girl to Woman: Who is She?

For more information, contact Thomas G. Wilson, director of Talent Search/Upward Bound at Virginia Tech, at 1-6911 or e-mail [tgwilson@vt.edu](mailto:tgwilson@vt.edu).

**MONEY**

*Continued from 1*

language to facilitate the development of distance-learning programs.

For the 229 Division, the Plan to Serve Virginia's Agriculture, Human, and Natural Resources received \$500,000 per year in the House and \$300,000 per year from the Senate. The Senate added \$55,000 per year for the CFAST (seafood) program; the House included \$25,000 for the Amelia County Extension office.

Both House and Senate included language modifying the governor's mandate for institutions to develop institutional-performance agreements. Instead, each institution will develop a strategic plan setting out its goals and the resources required to reach them.

On Thursday, Feb. 24, the House and Senate were to act on these proposals. A conference committee will be appointed to iron out the differences before the end of the session on March 10.

Details of budget amendment recommendations for higher education can be found on the Legislative Information System web site (<http://leg1.state.va.us/>).

**Department of Marketing ranked twentieth in articles**

*By Sookhan Ho*  
The Department of Marketing was ranked 20th in a quantitative survey of articles authored by faculty members in five major marketing journals during the 1984-99 period. The list comprised 175 schools, primarily universities in the United States, but it included institutions in Canada, Europe, Asia, Australia, and the Middle East.

Department Head Kent Nakamoto said the survey, conducted by Joe Cote, a Washington State University professor, "is a simple tally of articles, with no adjustment made for the size of the faculty." Still, he added, "I was pleased to

see our strong placement, particularly in view of the quality of the schools ranked 'near' us."

The department had 53 published articles; the University of Pennsylvania led with 150. Nakamoto said each author received credit for an article unless more than one author was at the same school, in which case the school was counted only once. Also, the school affiliation listed in the article for each author was used, regardless of where the author now teaches.

The five journals are *Journal of Marketing*, *Journal of Marketing Research*, *Journal of Consumer Research*, *Journal of the Academy of Marketing Sciences*, and *Marketing Science*.

**Two Vet Med professors honored**

*By Jeffrey Douglas*  
Two former classmates who ended up working side-by-side as veterinary surgeons in the Department of Large Animal Clinical Sciences recently received Young Achievers awards from by Auburn University's College of Veterinary Medicine.

Rick Howard, assistant professor, and David Moll, associate professor, received two of the three awards that were presented to selected members of the graduating class of 1989. The award recognizes both professional achievement and contributions to the society.

Howard received his bachelor's degree from the University of Kentucky and his DVM from Auburn University. He received his master's degree and Ph.D. from Colorado State University and had an internship with the University of Missouri-Columbia.

Howard has written 60 publications and has attracted more than \$250,000 in sponsored-research funding. He is currently on the editorial

review boards for *Veterinary Surgery* and for the *American Journal of Veterinary Research*. He also served as an ad hoc reviewer for *Equine Veterinary Science*.

Moll received his bachelor's degree from the University of Arkansas and his DVM from Kansas State University. He earned his master's degree from Auburn University, where he also worked as a clinical instructor and research associate in large animal clinical surgery and medicine.

Moll is the co-author of 50 refereed journal articles, author or co-author of seven book chapters, and is the co-editor of a textbook. Moll is on a member of the Faculty Senate at Virginia Tech and participates in the faculty mentoring program. He is also the faculty advisor to the student chapter of the American Association of Equine Practitioners. His research interests include uro-genital surgery, gastro-intestinal surgery, lameness, and telemetry implants in black bears.

**VMRCVM builds academic exchange relationships**

*By Jeffrey Douglas*  
The Virginia-Maryland Regional College of Veterinary Medicine (VMRCVM) continues to build relationships with veterinary colleges throughout the Americas through several academic agreements and its World Health Organization Collaborating Center for Veterinary Education in Management and Public Health.

Academic exchange agreements with the University of Austral in Valdivia are also gaining momentum, according to Gerhardt Schurig, a professor in the Department of Biomedical Sciences and Pathobiology.

Five South American veterinary students have studied in Blacksburg as part of the program, Schurig said, and recently, the first VMRCVM fourth-year student spent six weeks studying at the University of Austral.

"Our goal is to exchange six students each year," Schurig said, adding that financial aid is available to assist students who wish to participate.

A South American veterinarian is now conducting a residency program in equine medicine on the Blacksburg campus, he said, and several faculty members have been involved in academic exchange programs.

Blacksburg- and Leesburg-based faculty and staff members who have collaborated with the University of Austral College of Veterinary Medicine include Larry Freeman, Marty Moon, Nat White, Scott Pleasant, and Chris Wakely.

The college's World Health Organization Collaborating Center for Veterinary Management and Public Health seeks to improve animal and human health throughout the Americas by promoting public health and veterinary education throughout the Americas and Caribbean Basin, according to Schurig.

**INCLUSIVE**

*Continued from 3*

ment the long-held emphasis on Western civilization in Europe and the United States; clearly our own history is not that of just the majority group in our society. One research area where the importance of diversity is immediately evident to all of us is medical research. Our knowledge of disease, disease treatment, and health promotion profits from women and minority groups in the research force. These groups bring an interest in and enhanced understanding of health problems unique to women and more prevalent among a minority group.

Individuals who happen to be members of under-represented groups also make contributions unrelated to their culture or race. While the richness of Nikki Giovanni's work has her experiences as a black woman at its heart, it's Jimmy Martin's excellence in geotechnical engineering that can help people in earthquake-prone regions, such as Turkey, have a more secure future. And Russell Jones helps children recover from disaster because he's an excellent psychologist and caring human being.

Thus, diversity in graduate education has manifold benefits, and we must continue to pursue not only what is morally right, but also that which enhances our understanding. We must increase enrollments of minority students and other under-represented groups. In the case of minority students, we should strive at a minimum to reflect the population at large. All students and citizens will benefit from an inclusive teaching and learning environment where individuals from under-represented groups have opportunities to enrich the experiences and lives of all.

**MIT**

*Continued from 1*

academia to follow Virginia Tech's lead.

In addition to universities, the United Nations Educational, Scientific and Cultural Organization (UNESCO) has endorsed electronic theses and dissertations as an important resource for technology transfer that will spur economic and social growth in developing countries. Ibero-American Science and Technology Education Consortium (ISTEC) and the Organization of American States have also joined the ND LTD.

Ed Fox, Virginia Tech computer-science professor, is director of the Networked Digital Library of Theses and Dissertations (ND LTD) and the Networked University Digital Libraries (NU DL) (see [www.ndltd.org](http://www.ndltd.org) and [www.theses.org](http://theses.org) and <http://etd.vt.edu>).

**DIGITAL EARTH**

*Continued from 1*

students will have the mobile I-Desk for a real-time demonstration of an application of the data.

Galbraith also emphasized the importance of student involvement in the project. "The symposium is also a unique opportunity for Virginia Tech students to use NASA data and new technology tools to increase our understanding of the world we live in and make education about the world a visual learning experience."

In addition to officials from NASA and the U.S. Geological Survey, representatives Autometric, a leading 3-D software-development company will be on hand with representatives from the University of Virginia and James Madison University to discuss how their schools are looking at using DEVELOP



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