

SPECTRUM

Virginia
Tech

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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

VOLUME 22 NUMBER 11 FRIDAY, NOVEMBER 5, 1999

See the university home page Monday for information on the BOV's selection of a new president.

AT&T \$1-million grant will benefit thousands of students

By Jean Elliott

Last week, the AT&T Foundation announced a \$1-million grant to the Virtual Institute for Technology Advancement in Education and Historically Black Colleges and Universities (VITAE-HBCU) coalition, which benefits more than 75,000 students at 13 institutions in Virginia, North Carolina, Delaware, Maryland and West Virginia.

The grant, one of the largest ever made by the AT&T Foundation, was arranged by the AT&T Learning Network, an AT&T Foundation program committed to help improve teaching and learning through the effective use of technology.

"We are very appreciative of AT&T's generous gift to support this collaboration," said Janet Johnson, dean of the College of

Human Resources and Education. "We look forward to the advantages and challenges ahead as we help integrate technology into curriculums at our partner universities. In turn, we look forward to sharing the strengths of cultural and educational diversity as we build together in this research experience."

"We are delighted with AT&T's leadership gift," said Glen Holmes, director of the VITAE-HBCU coalition and a Virginia Tech faculty member. "This grant will energize the project and allow us to move quickly to increase the technological expertise on our member campuses. With AT&T's support, the VITAE-HBCU coalition can begin to make a real difference in the quality of education for our students." The coalition capitalizes on Virginia Tech's acknowledged leadership in

educational technology and curriculum transformation.

The VITAE-HBCU coalition was established earlier this year to help meet the need for new technological resources in higher education, and to foster collaboration between major universities, such as Virginia Tech, and HBCU's. By sharing technological capacity and cultural resources, the coalition aims to enrich the academic experience of students and better prepare them to succeed in an increasingly diverse, technology-based world.

The AT&T Learning Network grant, to be paid over three years, will support training for faculty members to use information technology and to develop technology-based curriculum. It will also support outreach activities by the VITAE-HBCU coalition to communities with

limited technological resources.

"As technological advances hurtle along, it's very easy for educational institutions to get left behind," said Esther Silver-Parker, president of the AT&T Foundation. "That's why we are taking steps to help these schools close the digital divide, and we are proud to support the VITAE-HBCU coalition. This is a significant model for other schools and communities, one that can help ensure equity in access to opportunities for success in this new environment."

The VITAE-HBCU coalition's World Wide Web site is www.vitae.vt.edu/hbcu. The AT&T Learning Network's Web site is www.att.com/learningnetwork.

Fighter pilot O'Grady to speak here November 11

By Sookhan Ho

Captain Scott O'Grady, the fighter pilot who was shot down over Bosnia more than four years ago, will give a talk at Virginia Tech on Veterans' Day, Thursday, Nov. 11. His talk is titled "Return with Honor," which is also the title of his best-selling 1995 book, an account of his struggle for survival and dramatic rescue by the Marines.

The talk, which is free and open to the public, will begin at 7:30 p.m. at Burruss auditorium. O'Grady is the featured speaker in this fall's Cutchins Lecture Series, sponsored by the Virginia Tech Corps of Cadets Center for Leader Development.

O'Grady was patrolling NATO's "no-fly zone" (set up to deter Serb combat planes) over western Bosnia on June 2, 1995 when his F-16 was shot down by a Serb surface-to-air missile. O'Grady parachuted to earth and hid for six days, eating grass, leaves, and ants, and drinking rainwater. On the sixth night, he used his radio to signal his location to an F-16 search plane, and, at dawn the next day, was rescued by Marine helicopters.

O'Grady earned a B.S. from Embry Riddle Aeronautical University in 1989 and was commissioned through the Air Force Reserve Officers Training Corps program.

Besides *Return with Honor*, which spent six weeks on the *New York Times* bestseller list, O'Grady has also published *Basher Five-Two*, a children's edition of his story. His story has been documented on the Discovery Channel presentation, "Behind Enemy Lines."

The Center for Leader Development, based in the Pamplin College of Business, aims to educate students about leadership and prepare them to be leaders of integrity. The Cutchins Lecture series is named for Clifford A. Cutchins III, a retired chairman of the former Sovran Financial Corporation who served as rector of the Virginia Tech Board of Visitors.

Hokies to get full membership

A unanimous vote by the presidents of the Big East universities cleared the way Tuesday for Virginia Tech to attain full membership to the conference. Tech will become a member in all sports except wrestling—which is not a conference sport in the Big East—in July 2000, a year ahead of a schedule announced in late summer.

The change comes as Tech officials and the Big East were given a commitment by the University of Miami that it has no plans to leave the conference. The Tech Athletic Department had made acceptance of full membership contingent on Miami staying in the Big East.

The Hokies will compete in winter and spring sports in the Atlantic-10. That conference agreed to waive a \$300,000 early-departure fee it could have levied against Tech.

Confocal microscope finding many uses

By Stewart MacInnis

Virginia Tech researchers are finding many creative uses for the laser scanning microscope located in the Fralin Biotechnology Center. The confocal microscope, which has been in operation since last year, is the only such piece of equipment on campus.

As medical doctors use a combination of advanced scanning technology and powerful computers to develop 3-D views of the internal workings of a human body with a CAT scan, users of the confocal microscope create 3-D images of microscopic items.

"When funding was sought to purchase the microscope, we had in mind using it for imaging cells of animals, plants, bacteria and the like," said Kristi DeCourcy, Fralin's lab manager. "What we've found is that once you get outside the areas of biology that we concentrate on here at the center, there are people on campus who can use it in ways we would never have thought of."

One such user is a graduate geology student who is studying the interactions between mineral surfaces and bacteria. Biology researchers are looking at enzyme interactions in the roots of plants. A wood-science faculty member plans to use the confocal microscope to investigate the polarity of wood fibers.

"There are a number of advantages to this microscope compared to optical scopes," DeCourcy said. "It can show an object in three dimensions, but just as importantly, it eliminates items outside the sliver you're looking at."

It does that by using lasers to illuminate thin slices of the object that are precisely located with computer controls. The combination of laser energy, selected dyes, and filters can illuminate the subject, its internal parts, and even adjacent objects.

A number of overlapping slices of the object can be scanned. The computer can then assemble the scans to create the 3-D image. With the computer, researchers can manipulate the 3-D reconstruction, looking



Kristi DeCourcy uses a computer to manipulate a 3-D view of an object scanned with the confocal microscope, located in the background. (S. MacInnis)

at it from a variety of angles.

"With an optical microscope you're looking at a sample from the top and you're looking through its whole mass," DeCourcy said. "You can focus on certain parts of it, but there are other parts that are out of focus. It's hard to tell what is above and what's below what you're looking at. You can also have things stacked on top of each other, and you don't know whether they're touching or whether they're separated by a considerable distance."

The 3-D images produced by the confocal microscope allow

(See CONFOCAL on 4)

BOV to Meet

By David Nutter

The Virginia Tech Board of Visitors will meet on campus Monday, Nov. 8, beginning at 1 p.m. in Squires Brush Mountain Room.

The board will consider, among other business, faculty long-term disability program, exemplary-department awards, and an update on the Virginia Tech Alcohol Plan. The board is expected to announce the university's new president following the executive session on Monday, Nov. 8.

The committees of the board will meet at the following times and locations: Academic Affairs will meet at 8:30 a.m. in the Black Cultural Center, Room 126 Squires Student Center.

Buildings and Grounds will meet in executive session at 8:30 a.m. in the Donaldson Brown Hotel and Conference Center Boardroom. The open session will

(See BOV on 4)

ACTIVITIES

EVENTS

Friday, 5

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

Excellence in Education Workshops, 9 a.m., DBHCC.

Men's Basketball, 7 p.m., Cassell: Court Authority.

International Dance Night, 7:30 p.m., Squires Commonwealth Ballroom.

Faculty Recital, 8 p.m., Squires Recital Salon: David Jacobsen.

Saturday, 6

Mineral/Fossil Sale, 9 a.m.-4 p.m. 2062 Derrington.

Pet Pictures, 10 a.m.-3 p.m., VMRCVM.

Football, 3:30 p.m.: At WVU.

Dinner Concert, 6 p.m., DBHCC: Laurel Masse.

Music Ensemble Concert, 8 p.m., Squires Haymarket Theatre: New Virginians.

Sunday, 7

Board of Visitors Meets.

YMCA Hike, 1:30 p.m., 403 Washington St.: White Rocks/Wind Rocks.

Faculty Recital, 3 p.m., Squires Recital Salon: David Ehrlich and Teresa Ehrlich.

Music Ensemble Concert, 8 p.m., Squires Haymarket Theatre: Horn Ensemble.

Monday, 8

Board of Visitors Meets.

VTU Lively Arts, 7:30 p.m., Burruss auditorium: *Tap Dogs*.

CHEW Program, 8 p.m., Squires Recital Salon: "Treemonisha."

Tuesday, 9

CEUT Workshop, 3-5:30 p.m., Hillcrest dining room: Margaret Hable.

Men's Basketball, 7 p.m., Cassell: Russian National Team.

TA-UT, 8 p.m., Squires Studio Theatre: *The Trojan Women*.

Wednesday, 10

Family Support Program, noon-1 p.m., DBHCC conference room C: Pam Teaster, Cooperative Extension.

"With Good Reason," 7 p.m., WVTF: *African-American Fortunes and Misfortunes*.

TA-UT, 8 p.m., Squires Studio Theatre: *The Trojan Women*.

Thursday, 11

Women in Mathematics Career Day, 9:30 a.m.-3:30 p.m., Math Emporium.

YMCA Slide Show, noon, Cranwell Center: Inn-to-Inn Hikes.

CEUT, 12:30-2 p.m., Hillcrest dining room: Preparation for Teaching.

CSIS Lunch Discussion Series: 12:30-1:30 p.m., 132 Lane.

Multicultural Program, 7 p.m., Squires Black Cultural Center: An Evening of Celebration: Holidays Around the World.

TA-UT, 8 p.m., Squires Studio Theatre: *The Trojan Women*.

Friday, 12

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

CPAP Roundtable, 3 p.m., Thomas Conner House: Mary Hamilton, American Society for Public Administration.

CATH, 3:30, 216 Newman Library: Len Hatfield, Dan Mosser, and Ernie Sullivan.

Book Reading/Signing, 7 p.m., Volume Two Bookstore: David Plante.

Student Recital, 8 p.m., Squires Recital Salon: Stephanie Watts.

TA-UT, 8 p.m., Squires Studio Theatre: *The Trojan Women*.

SEMINARS

Friday, 5

Highlands in Chemistry, 11 a.m., 3 Davidson: Dennis Everhart, Kimberly-Clarke.

MCBB, noon, 102 Fralin: Ina Hoeschele.

Electrical/Computer, Materials Science/Engineering,

3 p.m., 114 Holden: Alex Schrott, IBM.

Statistics, 3 p.m., 409 Hutcheson: Eugene Seneta, UVA.

Economics, 3:30-5 p.m., 3008 Pamplin: Neil Ericsson, Federal Reserve.

Botany, 4 p.m., 1076 Derrington: Jon Cawley.

Electrical/Computer Engineering, 4 p.m., 457 Whittemore: M. Vaudrey.

Monday, 8

CIS-FA, noon, 132 Lane: Anna Fariello.

Biochemistry, 4 p.m., 223 Engel: Mark Lively, Wake Forest.

CSES, 4 p.m., 232 Smyth: Scott Jerrell.

Horticulture, 4-5 p.m., 409 Saunders: C.R. O'Dell, J. Williams.

Tuesday, 9

Electrical/Computer Engineering, 3:30 p.m., 300 Whittemore: T. Pratt.

Wednesday, 10

PPWS, 4 p.m., 102 Fralin: Greg Armel.

Electrical/Computer Engineering, 5:15 p.m., 300 Whittemore: TBA.

Thursday, 11

Statistics, 3:45 p.m., 409 Hutcheson: Christina Mastrangelo, UVA.

Entomology, 4 p.m., 220 Price: Mike Parella, UC Davis.

Electrical/Computer Engineering, 4 p.m., 654 Whittemore: G. Durgin.

Geological Sciences, 4 p.m., 4069 Derrington: Gary Jacobs, Oak Ridge National Laboratory.

Friday, 12

Highlands in Chemistry, 11 a.m., 3 Davidson: Peter Mackenzie, Eastman Chemical.

MCBB, noon, 102 Fralin: Sydney Kustu, Cal-Berkeley.

Communication Studies, 3:30-4:30 p.m., Hillcrest Honors conference room: Wat Hopkins.

Botany, 4 p.m., 1076 Derrington: Glen Stevens.

CAM announces changes

The Center for Alternative Media (CAM) in Newman Library announces changes regarding hours, reservations of media for classes by faculty members and graduate students, and duplicating services in CAM. The major changes will be in operating hours and the Media Booking System. CAM hours will be 7:30 a.m.-10 p.m., Monday through Friday, 9 a.m.-6 p.m. Saturday and 1-10 p.m. Sunday.

The booking system for reservation of media materials for classes is being updated. While a new system is established, faculty members and graduate students should allow three to five days for request processing. Duplicating audiovisual materials will be discontinued in CAM. This service is offered at Video Broadcast Services in 285 Whittemore. For more information, call 1-6358 or e-mail CAM at cam@vt.edu.

Academic advising forum next week

The first University Forum on Academic Advising will be held Thursday, Nov. 11 from 5-6 p.m. in 341 Squires. The forum, sponsored by the Student Government Association, the Faculty Senate, and the Office of the Provost, will focus on the definition and philosophy of advising at Virginia Tech.

After a year-long study, the 34-member task force has returned nine recommendations on ways to improve academic advising for undergraduate students. One of them was to adopt a proposed framework for advising that includes a definition; philosophy; statements of responsibilities for students, advisors, and the university; and a developmental model for advising undergraduate students.

For more information, contact Delores Scott at scottaw@vt.edu.

Language courses opening

Virginia Tech will offer one-semester, three-credit foreign language and culture courses—Hebrew, Spanish and Italian—designed for novice learners with little or no previous experience in the language. Although these courses do not meet the foreign language requirement, they may be taken prelimi-

BULLETINS

nary to the accelerated elementary courses which do meet the requirement.

These are new four-credit accelerated elementary courses in Chinese, Italian and Japanese which condense two semesters (1105 and 1106) into one semester of study supplemented with a self-instructional and electronic component.

These courses are open to persons not enrolled as regular students at Virginia Tech, on a non-credit basis for a special fee by arrangement through David Mitchell at 1-5182.

For more information, call 1-5361 or 1-5362, or e-mail: jshrum@vt.edu. Classes begin January 17.

CEUT presents workshops for faculty members

Margaret Hable will present "Lectures: Researched-based Strategies that Work," on Tuesday, Nov. 9, 3-5:30 p.m., in Hillcrest dining room.

On Wednesday, Nov. 10, 3-5:30 p.m., in Hillcrest dining room, Hable will present "Active Learning Strategies."

Forum addresses Stroubles Creek/Duck Pond

The Virginia Water Resources Research Center is sponsoring a forum to discuss water-quality issues related to the Duck Pond and Stroubles Creek from 1:30 to 4:30 p.m., December 3 in 150 Squires. Tech faculty members, and personnel from the town

of Blacksburg and the Virginia Department of Environmental Quality will discuss the water-quality problems, wildlife issues, and strategies for water-quality improvement. This event is co-sponsored by the Virginia Tech Museum of Natural History. For information call 1-5624 or e-mail water@vt.edu.

Staff Senate to hold noon meeting

Virginia Tech's Staff Senate will meet Thursday, Nov. 18, at noon, in 1810 Litton Reaves. In addition to normal duties, activities will include a speaker, Del. Jim Shuler. Meetings are open to the public.

The next meeting for the Staff Senate will be the annual Staff Senate Reunion, Thursday, Dec. 9, at 5 p.m., in Owens Banquet Hall. This meeting will take the place of the Staff Senate meeting listed as December 16 on the University Calendar.

Meeting will address breastfeeding

A meeting is being held for those interested in issues involving breastfeeding at work/on campus and the possibility of setting aside areas for nursing/pumping rooms. A meeting being held in the conference room at the Women's Center (Price House, directly behind McBryde) on November 10 at 12:30 p.m. is open to anyone with ideas or issues. Babies/children are welcome. For more information, contact Jessie Meltner at 1-7806

By Liz Crumley

Teaching engineers about business subject of lecture

"What Do Our Engineering Students Need to Know about Business?" will be the topic of a lecture to be presented by Joseph T. Sullivan, the Joseph H. Collier chair of chemical engineering, Friday, Nov. 12, at 4 p.m. in Hancock auditorium. Sullivan came to Virginia Tech in 1997 after more than 30 years of technical and operations-management experience in the chemical and pharmaceutical industries. He earned his B.S. in chemical engineering at Iowa State University and his Ph.D.

(See TEACHING on 4)

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. Office/Clerical: 1-6196; Technical/Research: 1-6160; Service/Trades: 1-6176; Professional and Managerial: 1-4649; Information Technology: 1-2233. 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 Benefits Analyst (Personnel Practices Analyst Senior), 2168T, Grade 12, Personnel Services.

Boiler Operator Assistant, 330P, Grade 4, Power Plant.

Building/Grounds Supervisor B, 0867H, Grade 10, Residential/Dining Programs/Facilities/Services.

Chemical Safety Trainer (Health Ed. Sr), 7491T, Grade 10, EHSS.

Coordinator Conference/Guest Services (Pr Specialist), 2943G, Grade 10, Residential/Dining Programs.

Development Associate—Student Calling Program, 1450C, Grade 8, University Development/Annual Giving for Phonathon.

Enrollment Services Specialist, 0009T, Grade 8, Scholarships/Financial Aid.

Nine full-time food-operations positions available; two part-time positions.

Food Operations Director A/Unit Manager, 1251H, Grade 12, Residential/Dining Programs/Owens Food Court.

Food Operations Manager Assistant (Dining Room Manager), 1118C, Grade 6, DBHCC.

Housekeeping Worker, 1023H, Grade 1, Residential/Dining Programs.

Housekeeping Worker, 6452S, Grade 1, Physical Plant.

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

Human Resources Manager (Personnel Practices Manager), 2502T, Grade 15, Personnel Services.

Instructional Center Technician, W022912M, Grade 6, CVM.

Laboratory Specialist, 7525M, Grade 8, CSES.

Laboratory Specialist, 3428M, Grade 8, CVM.

Laboratory Specialist, 7524M, Grade 8, CVM.

Laboratory Technician, 7519T, Grade 4, Chemistry.

Medical Technologist, 1996M, Grade 9, Veterinary Teaching Hospital.

Motor Vehicle Operator A, 2862P, Grade 2, Physical Plant/Grounds/Hauling.

Office Services Assistant, 1200S, Grade 4, University Libraries.

Office Services Specialist, 2023M, Grade 5, CVM.

Office Services Specialist, 931T, Grade 5, University Registrar.

Office Services Specialist, 1987C, Grade 5, CNS.

Office Services Specialist, 0LC068C, Grade 5, Hokie Passport.

Program Support Technician (Asst. Mgr.—Guest Services), 6685G, Grade 6, DBHCC.

Programmer, 7329M, Grade 10, Agricultural/Applied Economics.

Programmer, 3564M, Grade 10, Animal/Poultry Sciences.

Programmer/Analyst (Instructional Technology), 7500M, Grade 12, CALS/229 Distance Education.

Public Relations Specialist, LC075J, Grade 10, Athletics.

Senior Development Associate—Annual Giving, 6695D, Grade 10, University Development.

Senior Programmer/Analyst (Instructional Designer), 7499M, Grade 14, CALS/229 Distance Education.

Television/Video Producer/Director, 5362D, Grade 10, University Relations.

Part Time Animal Care Technician A, W022675M, Grade 3, Veterinary Teaching Hospital.

Fiscal Assistant, W022514M, Grade 5, CVM.

Fiscal Technician Senior, 1880H, Grade 8, Residential/Dining Programs/Business Services.

Housekeeping Worker, W022490H, Grade 1, Residential/Dining Programs.

Housekeeping Worker, W020574G, Grade 1, DBHCC.

Laboratory Technician Senior, W022926M, Grade 5, CSES.

Office Services Assistant, W022596H, Grade 4, Residential/Dining Programs/Facilities/Services.

Office Services Specialist, 6545M, Grade 5, College Natural Resources.

Office Services Specialist, W020877C, Grade 5, AIS—User Services.

Photocopy Technician, W020961C, Grade 4, Printing Services.

Postal Assistant, W020442C, Grade 4, University Mail Services.

Postal Assistant, W020720C, Grade 4, University Mail Services.

Radiology Technologist, W022238G, Grade 9, Health Center.

Switchboard Operator (Off Services Assistant), W020821M, Grade 4, CVM.

Wash Bay Attendant, W020774T, Grade 2, Motor Pool.

University Only Food Operations Assistant B (3rd Baker), U585H, Grade 2, Residential/Dining Programs/Southgate Bakeshop.

Web Site Designer, 1385D, Grade 0, Distributed Information Systems.

Off Campus Evening Announcer, 1962D, Grade 8, WVTF.

Food Production Worker A/Preportion Supervisor, 0752H, Grade 3, Residential/Dining Programs.

Human Services Program Specialist, 6517J, Grade 11, CPAP.

FACULTY POSITIONS

INSTRUCTIONAL

Physics. Assistant Professor. Contact: James Hefflin, Department of Physics (0435). Review begins February 15.

Human Nutrition, Foods and Exercise. Instructor. Contact: Dianne Yardley, College of Human Resources and Education, 101 WMH (0317). Review begins February 1.

Human Nutrition, Foods and Exercise. Assistant/Associate Professor. Contact: Dianne Yardley, CHRE, 101 WMH (0317). Review begins February 15.

Teaching and Learning. Assistant/Associate Professor of Elementary Education. Contact: Dianne Yardley, CHRE, 103 WMH (0317). Review begins January 17.

Near Environments. Assistant/Associate

Professor, Residential Property Management. Contact: Dianne Yardley, CHRE, 226 WMH (0317). Review begins January 10.

Near Environments. Assistant/Associate Professor, Family Financial Management Extension Specialist. Contact: Dianne Yardley, CHRE, 226 WMH (0317). Review begins January 15.

Near Environments. Assistant/Associate Professor, Family Financial Management Resident Instruction Position. Contact: Dianne Yardley, CHRE, 226 WMH (0317). Review begins January 15.

Near Environments. Assistant/Associate Professor, Interior Design. Contact: Dianne Yardley, CHRE, 103 War Memorial Hall (0317). Review begins January 15.

Architecture. Assistant Professors. Contact: Frank Weiner, CAUS, 201 Cowgill Hall (0205). Review begins January 16.

Computer Science. Assistant Professors. Contact: Faculty Search, Department of Computer Science, 660 McBryde (0106). Applications required by January 15.

NON-INSTRUCTIONAL

College of Engineering. Assistant Dean for Distance Learning and Computing. Contact: Dean of Engineering, 333 Norris Hall (0217). Review begins November 22.

University Development. Director of Development, CAUS. Contact: Nevin Kessler, University Development, 201 Pack Building (0336). Review begins immediately.

Virginia Cooperative Extension. Extension Agent, Dairy Science. Contact: Steve Umberger, Virginia Cooperative Extension, 122 Hutcheson (0437). Review begins November 29.

Virginia Cooperative Extension. Extension Agent, 4-H. Contact: John Dooley, Virginia Cooperative Extension, 122 Hutcheson Hall (0437). Review applications begins November 29.

Statistics. Systems Administrator. Contact: Marvin Lentner, Department of Statistics (0439). Applications accepted until December 1.

Dean of Students Office. Assistant Dean of Multicultural Programs. Contact: Shirley Stone, Dean of Students Office (0255). Screening begins first week of December.

Complete information regarding faculty positions is available at <http://www.vt.edu:10021/admin/eoaa/index.html>.

Arts and Sciences seeks Diversity Award nominations

By Sally Harris

The Cultural Diversity Committee (CDC) and the Student Advisory Board (SAB) in the College of Arts and Sciences invite nominations for the annual Diversity Award.

The Diversity Award, established in 1996, honors faculty and staff members who have made significant contributions to improve campus climate for women and persons of color at Virginia Tech.

Eligibility requirements are as follows: Successful nominees should have taken a leadership role beyond the expectations of their position to improve the quality of life for women

and persons of color, plan and implement institutional change related to issues of diversity, and, educate members of the campus community to appreciate an increasingly pluralistic society. Faculty nominees must be employed in the College of Arts and Sciences. Staff nominees may include persons employed outside the College of Arts and Sciences.

A measure of preference will be given to faculty and staff members whose work on diversity may not have been previously recognized through this or similar awards.

The CDC and the SAB will select either

one or two recipients for this year's award(s) totaling \$1,000.

To nominate someone, send one nomination letter, accompanied by two letters of support, to Bob Leonard, Cultural Diversity Committee, (0141) by 5 p.m., Monday, Nov. 15.

Letters of nomination and support should clearly describe the nominee's qualifications and contributions to the university community as they relate to diversity. Faculty and staff members and students are encouraged to submit letters of nomination and support. Results will be announced in the spring.

Nominations sought for President's Award

Nominations are now being accepted for the 2000 President's Award for Excellence. The purpose of this award is to annually recognize up to five selected employees who have made extraordinary contributions by consistent excellence in the performance of their job or a single incident, contribution, or heroic act.

All salaried classified staff members at any grade level, as well as administrative or professional faculty members, with at least two years of university service are eligible for consideration. Specific exclusions for the award are instructional faculty members, academic department heads, deans, assistant and associate deans, vice presidents, Extension agents, and wage employees. Previous award recipients are not eligible for five years after receiving the award. For questions about eligibility call Personnel Services at

1-7784.

Award recipients will receive a certificate and a \$2,000 award. The award will be publicized internally and externally.

Nominations can be made by any employee; self-nominations are not acceptable. All nominations must be submitted on an Award for Excellence nomination form which is available from deans, directors, or department heads, or may be downloaded from the Virginia Tech Intranet web page. Evaluation criteria and nomination guidelines are included with the nomination form.

Nominations must be submitted no later than Friday, Nov. 12, to the President's Award for Excellence Committee, c/o Personnel Services, Southgate Center.

ACHIEVERS

The following individuals are being recognized as achievers: **Robert Dyck, Edward Dorsa, Robert Dunay, Patrick Miller, Benjamin C. Johnson, Dean Bork, Ellen Shillingham, Brian Katen, Mehdi Setareh, Thomas Murray, Mehdi Ahmadian, Dennis Jones, Fredrick Kringold, Shelley F. Martin, Joseph L. Scarpaci, Susan Molesky, William L. Andrew, Philip A. Araman, Earl Kline, Richard Connors, Thomas Drayer, James E. Johnson, L. Leon Geyer, Jesse J. Richardson Jr., and Bob Shaffer.**

For full information regarding their achievements, refer to the on-line edition of *Spectrum* at <http://www.unirel.vt.edu/spectrum/>.



VIRGINIA POLYTECHNIC INSTITUTE
AND STATE UNIVERSITY

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

Spectrum is a non-profit publication of the Office of University Relations: Lawrence G. Hincker, associate vice president for University Relations; David Nutter, associate director for Public Affairs.

Editor
John Ashby, 1-6961
Assistant Editor
Christian Moody, 1-8538
Production Manager
Melinda Shaver, 1-8524
Business Manager
1-8819

Letters to the editor and questions for "Ask *Spectrum*" should be addressed to the editor, 105 Media Building, Virginia Tech, Blacksburg, VA 24061.

Electronic *Spectrum*: <http://www.vt.edu:10021/admin/eoaa/index.html>.

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

CVC COACH



EAVES

This week's CVC coach is Jackie Eaves of Physical Plant/Housekeeping. Jackie is our coach versus West Virginia. The Mountaineers are tough on the field and in participation in their charitable campaign. Both Tech and WVU have \$190,000 campaign goals this year. In participation, they've held steady at about 39 percent for several years now. Unfortunately, the Hokies' participation has declined, but our goal is to get back up to strength this year. The campaign ends early this year, so send pledge cards to Gloria Smith by November 19.

ELECTRONIC SPECTRUM

20-year-old survey still valid

By Catherine Doss
In the late 1970s, Penny Burge, director of Virginia Tech's Women's Center, was working on her doctoral dissertation at Penn State University researching the relationship between child-rearing sex-role attitudes and social issue sex-role attitudes among parents. As part of her research, Burge designed a 28-question survey in which respondents were asked to mark how much they agreed or disagreed with statements such as: "Only females should receive affectionate hugs as rewards."

Electronic theses, dissertation project goes internationally

By Susan Trulove
The United Nations Educational, Scientific and Cultural Organization (UNESCO) has endorsed the dissemination of electronic theses and dissertations as an important resource for technology transfer that will spur economic and social growth in developing counties.

CONFOCAL

Continued from 1
researchers to see all those things. The imaging scanners of the microscope are so sensitive that the device is mounted on an air-cushioned table. The chance of vibrations from the water-cooled lasers is reduced because the lasers are located in an adjoining room with just two fiber-optic cables connecting them to the microscope. About half of the cost of the nearly \$400,000 worth of equipment was funded by the W.M. Keck Foundation. Other funding came from the colleges of Agriculture and Life Sciences, Arts and Sciences, and Engineering; from departments within those colleges; from Research and Graduate Studies; from the Biological Sciences Initiative; from the university ASPIRES program; from the Fralin Center; and from several researchers. Researchers from more than a dozen departments on campus have received training in using the equipment. DeCourcy said any researcher on campus is eligible to use the equipment after training. A modest hourly fee is charged to defray the cost of maintaining the equipment.

IN OTHER NEWS

Wavtrace to continue Tech collaboration

By Susan Trulove
Wavtrace, Inc. has joined the Center for Wireless Telecommunications (CWT) Industrial Affiliates Program. The Bellevue, Wash., company was the first to donate a transmission-reception system for high-speed, wireless connection to computer networks for field evaluation by the Virginia Tech center. Founded in 1996, Wavtrace is a pioneer and leader in the development of wireless broadband access systems and has developed the first point-to-multi-point millimeter-wave radio system based on time division duplexing (TDD). In September, Wavtrace and Virginia Tech announced the successful operation of the Virginia Tech Local Multipoint Distribution Service (LMDS) network. Wavtrace and CWT worked with Virginia Tech's Communications Network Services (CNS) and office of Information Systems to develop the

network that delivers two-way, high-speed data, voice, and video traffic from a hub site on the Virginia Tech campus to three off-campus buildings that did not previously have high-speed connections to the on-campus broadband network. Staff members from CNS, the university's telecommunications auxiliary, prepared the hub and remote sites for the network. Now, as a CWT affiliate, Wavtrace will continue to aid in the development of high-bandwidth wireless technology and applications in Southwest Virginia. "Our partnership with Virginia Tech is a perfect example of how a university/private sector collaboration can advance the rollout of new technology into the marketplace," said Thomas T. van Overbeek, CEO of Wavtrace. As part of CWT's work with Wavtrace, graduate student D. Eric Johnson will investi-

gate the ways in which a future Wavtrace LMDS system might improve its availability by adaptively adjusting its transmission characteristics to compensate for different path length and rain fade scenarios. The manufacturer will continue to work on joint projects with CWT through the Affiliates Program, a partnership between industry and CWT students, faculty members, and resources for increasing the availability of wireless systems and for addressing the economic, marketing, and financial issues faced by wireless businesses. The center supports faculty and staff members, and graduate and undergraduate students in the College of Engineering, the Pamplin College of Business, and the College of Arts and Sciences. The center's mission includes research, education, development, and technology transfer.

Tech recognized for character development

By Catherine Doss
Virginia Tech has been recognized for leadership in the field of student character development in the recently released *Templeton Guide: Colleges that Encourage Character Development*. Designed for students, parents, and educators who believe that character matters, the guide contains profiles of 405 exemplary college programs in 10 categories, and 100 colleges and universities named to the Templeton Honor Roll for their record of commitment to inspiring students to lead ethical and civic-minded lives. Virginia Tech is profiled in the section for first-year programs for its WING program and in the section for volunteer-service programs for its Service Learning Center. The WING is a residentially based freshman-year experience project that provides a seamless learning environment for incoming students, offering them assistance as they acclimate to the university environment. Cornerstone activities of the WING program include a mandatory

two-credit course called the First-Year Experience, which consists of weekly lectures and small-group discussions; group projects and presentations profiling campus-based organizations; and student assistants who augment resident advisor staff by providing ongoing mentoring and peer support. Results from the first two years of the wing program showed WING students experienced higher academic-achievement levels, greater degrees of involvement in campus activities, and greater interaction with faculty members. We are very proud of the university's work through the WING program to help students develop the strong values that will serve them well beyond their college years," said Landrum Cross, vice president for student affairs. "Being included in *The Templeton Guide* is a real honor and a tribute to our staff." The Service Learning Center promotes integration of community service with academic study to enhance student learning and deepen civic responsibility. "The *Templeton Guide* identifies colleges that encourage students to understand the importance of personal and civic responsibility, and that understanding will help them succeed in college and beyond," said Robert Bates, dean of the College of Arts and Sciences. "The Service Learning Center's work in this area is most impressive and deserving of this recognition."

Orth appointed

By Lynn Davis
Donald J. Orth has been appointed interim department head of fisheries and wildlife sciences in the College of Natural Resources by Dean Gregory N. Brown. His appointment became effective this month and will continue until the search has been successfully completed for a new department head. Orth follows Brian Murphy who served in this capacity for five years. Orth joined the Virginia Tech faculty in 1980; he specializes in research on stream-habitat analysis and fish-population dynamics. He spent one year as visiting scientist with Oak Ridge National Laboratory. The fisheries professor was coordinator of graduate programs in fisheries and wildlife and served previously as fisheries-section coordinator. His research has attracted approximately \$2.5 million in research contracts and grants and produced 65 journal articles in collaboration with 21 graduate students and numerous undergraduate students. He was awarded the Certificate of Teaching Excellence at Virginia Tech for activities and innovations in teaching this year. In 1998, Orth received Virginia Tech's Outstanding Faculty Award. He was elected president in 1992 of the Education Section of the American Fisheries Society. Since 1996, he has been a member of a faculty group, the Activants, which studies active learning techniques, peer coaching, and other teaching-related issues.

BOV

Continued from 1
begin at 9 a.m. in DBHCC room A. Finance and Audit will meet in executive session at 7:30 a.m. in the DBHCC Private Dining Room. The open session will follow at 8:30 a.m. in the Executive Conference Room. Student Affairs will meet with informally with student leaders from the Commission on Student Affairs for breakfast at 7:30 a.m. in the DBHCC Old Guard Room. The committee will meet at 9 a.m. in DBHCC conference room C. The executive committee of the board will meet Sunday, Nov. 7, at 1:30 p.m. in the DBHCC Committee Room. The board will meet for an information session on Sunday, Nov. 7, at 3 p.m.

TEACHING

Continued from 2
at the University of Minnesota. Twenty-five years of his professional life were spent with the Ciba-Geigy Corp., headquartered in Tarrytown, New York, where he was corporate senior vice president and a member of the Board of Directors and the Executive Committee.

Sullivan has been active in relations with government officials and regulatory agencies and has testified before congressional committees and participated in numerous national forums on environmental issues. Since 1993 he has served on the U.S. EPA Administrator's National Advisory Committee on Environmental Policy and Technology. In addition to teaching, Sullivan's interests are developing opportunities for engineering students to learn marketing and other business skills, and incorporating proactive environmental thinking into engineering education, chemical process design and manufacturing operations. Collie, a 1950 chemical engineering graduate, endowed the professorship because he saw a need to help prepare engineers to succeed in the management roles they often must assume during their careers with industry. After graduating from Virginia Tech, Collie began his career with the E.I. DuPont de Nemours in Wilmington, Delaware. In 1969 he founded Southchem, Inc., an industrial, fine-chemical, and solvent-distribution firm headquartered in Durham, North Carolina. When Collie sold Southchem in 1993, the company had sales of \$58 million and was one of the leading chemical-distributions firms in the U.S.

Virginia Tech
 Blacksburg, VA 24061
 Non-Profit Organization U.S. Postage PAID
 Blacksburg, VA Permit No. 28