

# SPECTRUM

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

VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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

VOLUME 24 NUMBER 5 FRIDAY, SEPTEMBER 28, 2001

## President outlines current state of the university

By John Ashby

In his annual address to the university community at Friday's awards ceremony, President Charles Steger discussed the university's response to the events of September 11 and outlined areas of progress in which the university is involved.

Steger said, "In light of the horrendous tragedy visited upon our country earlier this month, it is difficult for any feeling person to focus on normal events. I am filled with hope, however, by the outpouring of support from not only our American students, but the thousands of international students on campus—students from more than 130

countries. During an international crisis like the September 11 disaster, we at universities are reminded of the small global community in which we reside."

Steger said he gratified "to see the highly qualified young people accepting our offers of admission. Last month we enrolled more than 5,000 new freshmen, far more than we had planned. Mainly, because Virginia Tech is increasingly becoming the first-choice school for so many exceptional students."

Additionally, Steger said his challenge of the last academic year was to address the university's historically low enrollment of under-represented populations. "I am happy to report

that through aggressive recruiting efforts, African American enrollment likely will approach eight percent of the freshman class—a significant increase over previous years.

Turning from enrollment issues to programmatic areas, Steger announced that the long-awaited Fine Arts Center is now in the early planning stages. "We have hired architects to conduct a feasibility study to review scope, programming, and location of Phase One, the performance facility. Previously, we had planned to locate the center on the upper quad near Shultz Dining Hall. Because Squires Hall is the home for the Music Department and current performance halls, we are now looking

within proximity of Henderson and Squires Halls. At this point we have not ruled out either side of the Alumni Mall. Later this decade we'll concentrate on Phase Two of the Fine Arts Center, the Arts Gallery."

Steger also reminded listeners that he had challenged the university to find ways to engage the alumni. "Accordingly, the Institute for Distance and Distributed Learning in partnership with Alumni Relations developed the VT AlumNet program of on-line learning for alumni. Currently, 598 alumni are enrolled in 18 different courses. The initial course offerings have been short non-credit on-line  
(See *PRESIDENT* on 3)

## Steger appointed to governor's security panel

President Charles Steger has been appointed to Governor James Gilmore's newly created Virginia Preparedness and Security Panel.

The panel was formed to ensure safety mechanisms are implemented to protect Virginians and their property from future terrorist attack. The panel will be chaired by M. Wayne Huggins, formerly superintendent of Virginia State Police, and will comprise leaders from state and local government, emergency services and industries such as transportation, health and utilities.

"If we simply resign ourselves to addressing the immediate after-effects of the attacks on September 11 we will have done ourselves an injustice," Gilmore said. "We know terrorism remains a threat to our people, our property and our way of life. We must renew our efforts to prepare for, protect against and respond to the possibility of future terrorist attacks."

The panel's first task will be to conduct a swift analysis of security threats within the state to identify risks to Virgin-

(See *STEGER* on 3)



**IN OBSERVANCE**  
Members of the  
university gathered  
following the tragic  
events of September  
11 to honor the  
victims of the terrorist  
attacks in New York,  
Pennsylvania and  
Virginia.  
(*M. Keman*)

## NVC director Worrall, 63, dies

By Joan Ziembra

Richard D. Worrall, recently appointed director of Virginia Tech's Northern Virginia Center in Falls Church, died Sunday, Sept. 23, of cancer. He was 63.

Worrall was in the process of developing an aggressive strategy with former interim Provost James Bohland to position Virginia Tech among Northern Virginia's corporate and political audiences. He was one of the early contributors to the university's "footprints" approach to programming at the extended campuses.

Before his illness, Worrall worked with the National Academy of Public Administrators to create a joint Center for e-governance and served as the new entity's co-director. The center's first conference is planned for an international audience next month in Roanoke.

He was developing with Aaron Schroeder of the Virginia Tech Transportation Institute the "Travel Shenandoah" pilot program, a model transportation-information program with the potential to provide service state-wide and nationally. The program provides travel information along the I-81 corridor with real-time information on traffic and travel conditions plus up-to-date tourism information on such topics as historic sites, lodgings, and food. The information is available via the web, voice-activated mobile phone, pager, or cable television.

A public/private partnership involving Virginia Tech, Shenandoah Telecommunications Company, Virginia Tourism Corporation, and the Virginia State Police, the program is sponsored by the Virginia Department of Transportation.

Worrall had a long association with Virginia Tech. He was a university visiting professor with the Center for Public Administration and Policy, a university

(See *NVC DIRECTOR* on 4)

## Exemplary Department Award winners announced

By Clara B. Cox, Lynn Davis,  
and Joan Ziembra

The Residential Leadership Community, Department of Forestry, and Marriage and Family Therapy Program at the Northern Virginia Center will receive the 2001 Exemplary Department Awards for their work in developing and sustaining innovative and effective approaches to introductory courses at the graduate or undergraduate level.

The Office of the Provost established the awards in 1994 to recognize the work of departments and/or programs that maintain exemplary teaching and learning environ-

ments for students and faculty members. Each year, the awards committee selects a different focus for the awards. Last year's recipients were cited for effectively increasing diversity of faculty and staff members and students and for enhancing multi-cultural perspectives in teaching, research, and outreach programs.

Recipients will receive a plaque and a monetary award during a ceremony October 4. President Charles Steger and Provost Mark McNamee will present the Residential Leadership Community with \$20,000 and the Department of Forestry and the Marriage and Family Therapy Program with \$10,000 each.

"This year's awards particularly illustrate

an impressive range of work being undertaken in departments and programs at Virginia Tech," said Ron Daniel, associate provost for undergraduate programs. "The Residential Leadership Community represents an innovative residentially based learning community which links academic and student-affairs programming through a common denominator of leadership. The Marriage and Family Therapy program, a Northern Virginia-based graduate program, and the Forestry Department each have become well-known for their innovations in introductory course work achieved in response to very different students and needs."

(See *EXEMPLARY* on 4)

# ACTIVITIES

## EVENTS

### Friday, 28

**Pay Date for Faculty and Staff Members.**

**Leadership Development Program**, 9 a.m. to 4 p.m., 116 Robeson.

**International Club**, details TBA.

**Theatre Arts Production**, 8 p.m., Squires Haymarket Theatre: "Cole."

**Faculty Recital**, 8 p.m., Squires Recital Salon.

### Saturday 29

**Football**, noon, Lane Stadium: Central Florida.

### Sunday, 30

**Theatre Arts Production**, 2 p.m., Squires Haymarket Theatre: "Cole."

**YMCA Hike**, 1:30 p.m., YMCA Parking Lot.

### Monday 1

**Sexual-Assault Awareness Month Begins.**

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

**VTU Production**, 7:30 p.m., Burruss auditorium: "My Fair Lady."

**Faculty Development Workshop**, 10 a.m. to noon, 1120 Torgersen.

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

**Faculty Development Workshop**, 3 to 5 p.m., 1120 Torgersen.

### Tuesday, 2

**Faculty Development Workshop**, 10 a.m. to noon, 1120 Torgersen.

**Faculty Development Workshop**, 10 a.m. to noon, 3060

Torgersen.

**Faculty Development Workshop**, 3 to 5 p.m., 3060 Torgersen.

**CEUT Program**, 3:30 to 5:30 p.m., Hillcrest large conference room.

**Theatre Arts Production**, 8 p.m., Squires Haymarket Theatre: "Cole."

### Wednesday, 3

**Study Abroad Information Fair**, 10 a.m. to 4 p.m., Drillfield.

**Faculty Development Workshop**, 10 a.m. to noon, 3060 Torgersen.

**Faculty Development Workshop**, 12:30 to 1:30 p.m., 3060 Torgersen.

**Faculty Development Workshop**, 1:30 to 3 p.m., 3060 Torgersen.

**Faculty Development Workshop**, 3 to 5 p.m., 3060 Torgersen.

**CEUT Program**, 4:15 to 6 p.m., Hillcrest large conference room.

**T.A. Carter Professor Endowed Lecture**, 7 p.m., Hancock: Robert Dunay.

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

**Theatre Arts Production**, 8 p.m., Squires Haymarket Theatre: "Cole."

**Guest Artist Recital**, 8 p.m., Squires Recital Salon.

### Thursday, 4

**Art Gallery Exhibit Opening**, Armory Gallery (Through 11-2).

**Faculty Development Workshop**, 10 a.m. to noon, 1140 Torgersen.

**Faculty Development Workshop**, 10 a.m. to noon, 3060 Torgersen.

**Faculty Development Workshop**, 3 to 5 p.m., 3060 Torgersen.

**Family, Work/Life Resources Program**, noon to 1 p.m., 219 Squires.

**CEUT Program**, 3 to 4:30 p.m., Hillcrest large conference room.

**CEUT Program**, 3 to 5 p.m., DBHCC room G.

**Theatre Arts Production**, 8 p.m., Squires Haymarket Theatre: "Cole."

### Friday, 5

**Last Day to Drop.**

**International Club**, details TBA.

**Theatre Arts Production**, 8 p.m., Squires Haymarket Theatre: "Cole."

## SEMINARS

### Friday, 28

**Highlands in Chemistry**, 11:15 a.m., 3 Davidson: Michael J. Kelley, William and Mary.

**Philosophy**, 3 p.m., 225 Major Williams: Ben Bradley.

### Monday, 1

**Biochemistry**, 4 p.m., 223 Engel: Joe Chalovich, East Carolina.

### Wednesday, 3

**ESM**, 4 to 5 p.m., 110 Randolph: Damir Khismatullin.

### Thursday, 4

**Geological Sciences**, 4 p.m., 4096 Derring: Randy McFarland, USGS.

### Friday, 5

**MCBB**, 12:30 p.m., 102 Fralin: Bob Dietrich, Syngenta.

**Highlands in Chemistry**, 11:15 a.m., 3 Davidson: Isiah Warner, LSU.

## BULLETINS

### Workshop highlights faculty research support

New faculty members are invited to a special workshop entitled "Your Research Career at Virginia Tech: Getting Started," to be held Friday, Oct. 12, 2 to 3:30 p.m. in the Fralin Biotechnology Center auditorium. The workshop will familiarize faculty members with a variety of services offered by the university to support their research interests.

Featured will be an overview of the services offered by the Research Division, including the Office of Program Development and the Office of Sponsored Programs. Also reviewed will be the role of Virginia Tech Intellectual Properties, Inc. (VTIP), an affiliate corporation that protects and licenses new technologies developed by Virginia Tech faculty members.

Other topics include funding opportunities for young investigators, conducting a funding search, developing and submitting a proposal, the award process, financial issues of award administration, basic concepts of intellectual property, and requirements for disclosure.

Presenters include Robert Porter and David Richardson from the Research Division, and Michael Martin from VTIP, with welcoming remarks by Mark McNamee, university provost and vice president for academic affairs, and Len Peters, vice provost for research.

Those planning to attend should notify Debbie Nester at 1-5410 or e-mail [debbiell@vt.edu](mailto:debbiell@vt.edu). For more information, contact Porter at 1-6747 or [reporter@vt.edu](mailto:reporter@vt.edu).

### Senates invite candidates to campus

The Staff and Faculty senates invite all members of the university community to attend a discussion of higher-education issues on Tuesday, Oct. 16 by candidates for delegate David Nutter at 7 p.m., and Creigh Deeds at 7:30 p.m.

The presentations will be in 32 Pamplin.

### EHSS re-schedules Open House

Environmental, Health and Safety Services invites faculty and staff members to its Open House on Friday, Oct. 12, from 10 a.m. to 2 p.m. Participants may learn about the services provided, test their knowledge of health and safety practices, meet the staff, and tour the facilities. There will be food, demonstrations of hearing testing, air monitoring, fire extinguishing, ergonomics, and other activities. Door prizes

will be awarded. For more information, visit web site <http://www.ehss.vt.edu/Events/OpenHouse/OpenHouse.htm> or contact Charlotte Waggoner at [ren@vt.edu](mailto:ren@vt.edu) or 1-5864.

### IDDL presents instruction-evaluation seminar

The Institute for Distance and Distributed Learning will present a seminar on evaluation of instruction on October 19, from 8:30 a.m. to noon in 150 Squires.

The seminar is for faculty members with concerns about appropriate evaluation of instruction for promotion and tenure, or who are in an administrative position that requires knowledge of what constitutes appropriate evaluation of instruction for critical personnel or management decisions.

The seminar will sort through valid and reliable approaches to evaluating instruction, offer practical examples of successful efforts, and outline university support for the scholarship of teaching.

### MAA Regional Meeting scheduled

The Mathematics Department will host the Fall 2001 MD/DC/VA Regional Meeting of the Mathematical Association of America on October 19 and 20.

Bonita Saunders of the National Institute of Standards and Technology, will give a presentation at the Friday night banquet to be held at the Sheraton Four Points Hotel. Saunders will discuss "Effective 3D Visualizations for the NIST Digital Library of Mathematical Functions Project." Guest speakers Saturday are Dan Kalman of American University, with a talk entitled "Polynomial Equations and Circulant Matrices," and Larry Washington of the University of Maryland, who will speak about "Diophantus and Fermat."

In addition to the invited speakers, there will be a special session for graduate-student expository papers. Mathematics graduate students from around the region are encouraged to exercise their presentation skills.

Project NExT has also planned activities for its Section NExT fellows this fall. These activities will take place at the Math Emporium. For details about Project NExT activities, see the web site <http://mathweb.mathsci.usna.edu/faculty/traveswn/next/SectionNextnew.htm>.

Individuals planning to attend the meeting must pre-register if they wish to attend either the banquet dinner on Friday evening

or the lunch on Saturday. Pre-registration information is available at web site <http://www.math.vt.edu/people/spielman/maa/fall01>. Individuals planning to attend the conference are also invited to present papers. The deadline for paper submissions is October 5; sessions will take place in McBryde Hall. Complete the on-line call-for-papers form at the meeting web site.

### Natural-history museum offers workshop

The Museum of Natural History will offer a workshop for teachers Saturday, Oct. 6, from 9 a.m. to 4 p.m. at the museum. Project WET is a nationally recognized environmental-education program that focuses on water as a habitat, a resource, and an integral part of a functioning ecosystem. It provides lessons and activities to supplement existing curricula and to develop young persons' awareness and knowledge about the world and the elements of the environment. Enrollment is limited—pre-register by calling 1-3001.

### 'People's Pharmacy' comes to Roanoke

Joe and Terry Graedon, hosts of "The People's Pharmacy," will be at Shaftman Performance Hall at Jefferson Center on Thursday, Oct. 4, from 7-9 p.m. The event, sponsored by WVTF Public Radio and *The Roanoke Times*, is free and open to the public.

Tickets will be needed for admission to the event and can be obtained by calling WVTF Public Radio at (540) 989-8900 or (800) 856-8900, or by filling out a coupon in *The Roanoke Times*. Copies of the Graedons' latest book, *The People's Pharmacy Guide to Home and Herbal Remedies* will be given as door prizes.

In an open-microphone discussion, audience members are invited to ask the Graedons questions and make comments on health-related topics. The live show will be taped by WVTF and re-broadcast on Saturday, Oct. 13 at 7 a.m.

The syndicated newspaper column, which is widely distributed in the United States and abroad. The column appears in *The Roanoke Times* each Sunday and Tuesday. They co-host an award-winning health talk show, by the same name, that airs weekly on over 500 public radio stations. WVTF Public Radio broadcasts the Graedons each Saturday at 7 a.m.

# EMPLOYMENT

## CLASSIFIED POSITIONS

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

### FULL TIME

**One** full-time food-service position available.

**Alternative Transportation Manager**, 007223F, PB 4, Office of Transportation.

**Asst Director of UUSA (Building Operations/Facilities)**, 000292J, PB 4, UUSA.

**Bioprocess Laboratory Specialist**, 003373M, PB 4, BSE.

**Boiler Operator**, 007313F, PB 3, Power Plant.

**Center for Alternative Media Assistant**, 002197G, PB 2, University Libraries/CAM.

**Circulation/Reserve Assistant**, 000468G, PB 2, Library.

**Dairy Technician**, 000652M, PB 3, Dairy Science.

**Development Associate**, 001964S, PB 3, University Development.

**Financial Planning Manager**, 007567F, PB 5, Budget/Financial Planning.

**Fiscal Assistant**, 000810F, PB 2, Controller's Office.

**Fiscal Technician**, 007757R, PB 3, VTTI.

**Fiscal Technician**, 002553F, PB 3, Controller's Office.

**Fiscal Technician**, 002023F, PB 3, Hokie Passport Office.

**Housekeeping Manager**, 006926H, PB 3, RDP.

**Housekeeping Worker**, P002005C, PB

1, Physical Plant.

**Laboratory Specialist**, 007707B, PB 3, CE.

**Payroll Manager**, 002501F, PB 5, Controller's Office.

**Program Support Technician**, 001932S, PB 3, CPAP.

**Program Support Technician**, 007839R, PB 3, Sponsored Programs.

**Programmer/Analyst**, 007836J, PB 5, CMI.

**Sales/Marketing Manager**, 000478H, PB 3, RDP.

**Security Guard**, 007722Y, PB 1, Police.

**Shop Technician**, 001201S, PB 4, Department of Architecture.

**Smart Road All-weather Testing Technician**, 007655R, PB 3, VTTI.

**Smart Road/Travel Shenandoah Night Dispatcher Supervisor**, 007834R, PB 3, VTTI.

**Sous Chef**, 000940H, PB 3, RDP.

**Support Center Technician**, 007305M, PB 3, CVM.

**Technical Director, Digital Library/Archives**, 006789G, PB 5, Library Archives.

**Technical Writer**, 007837S, PB 4, University Development.

**Transportation Planner**, 007498F, PB 4, Office of Transportation.

**Unit Head, Circulation/Reserve/Storage**, 007817G, PB 4, Library.

### PART TIME

**Animal Care Technician**, W020066M, PB 2, Veterinary Teaching Hospital.

**Animal Care Technician/Small Animal**, W022675M, PB 1, Veterinary Teaching Hospital.

**Banner Desktop Support Technician**, W022069S, PB 3, Desktop Support.

**One** part-time food-service position available.

**Graphic Designer I**, W023313M, PB 3, CVM.

**Graphic Designer II**, W023312M, PB 3, CVM.

**Large Animal Husbandry**, W022155M, PB 1, Veterinary Teaching Hospital.

**Office Specialist**, W022596H, PB 2, RDP.

**Production Assistant**, W023314B, PB 3, DLC.

**Security Guard**, W020470Y, PB 1, Police.

**Warehouse Support Operator**, W022107S, PB 3, ISC.

### OFF CAMPUS

**Fiscal Technician**, 007411B, PB 3, Engineering.

**Office Manager**, 007796Y, PB 4, IALR.

**Program Administrator**, 006436Y, PB 3, Continuing Education.

**Program Support Technician**, 005466M, PB 3, VCE—Page County.

**Radio Announcer**, W020800S, PB 3, University Relations/WVTF Radio.

**Wildlife Biologist**, 007764J, PB 4, CMI.

## FACULTY POSITIONS

### INSTRUCTIONAL

**Engineering Science/Mechanics. Assistant/Associate Professor.** Contact: Edmund Henneke, 225 Norris (0219). Review begins Dec. 1.

**Civil/Environmental Engineering. Assistant/Associate/Full Professor.** Contact: John Little, 419 Durham (0246). Review begins Dec. 15.

### NON-INSTRUCTIONAL

**VCE. Extension Agent, Family/Consumer Sciences (restricted position).** #112358, Fairfax Co. Contact: Eleanor Schlenker, 121 Hutcheson (0437). Review begins Oct. 12.

**VCE. Extension Agent, Family/Consumer Sciences (restricted position).** #112359, Lee Co. Contact: Eleanor Schlenker, 121 Hutcheson (0437). Review begins Oct. 12.

**VTTI. Research Associate.** Contact: Cindy Wilkinson, 3500 Transportation Research Plaza (0536). Open until filled.

**Office of the University Provost. Dean of the Graduate School.** Contact: Suzie Karlin, 210 Burruss (0132). Review begins Nov. 1.

## Staff and Faculty Annual Fund successful

Since May, Virginia Tech employees have chosen to support a variety of projects through the Staff and Faculty Annual Fund. The projects include university priorities, colleges, departments, WVTF, campus beautification and others.

The most popular choice continues to be the Employees' Spouse and Dependents Scholarship Fund, garnering almost one-third of total funds collected. Next year, this will facilitate more than 10 scholarship awards to spouses and children of Virginia Tech employees—up from four this year (see below) and two the year before. For more information on the Employees' Dependent and Scholarship Fund, visit: [www.fst.vt.edu/vtsp/](http://www.fst.vt.edu/vtsp/).

This year's Employees' Dependent and Scholarship Fund recipients are Adam Snelling, Heather Wright, Mark Washenberger, and Regan Bond.

A new level of participation in the Staff and Faculty Annual Fund has been reached—a 49-percent increase over last year. Upcoming staff-

association challenges are expected to raise the level higher.

A focus group made up of staff and faculty members and retired employees provides input to the Office of University Development, resulting in a Staff and Faculty Annual Fund that represents staff and faculty priorities, and provides options that make it easy and painless to support campus initiatives. On-line giving at [www.givinto.vt.edu](http://www.givinto.vt.edu), payroll deduction, assisting

employee groups to make collective gifts, pledges with choice of payment schedule, in addition to outright gifts are all welcome to help employees participate at any level and to whatever campus initiative they wish.

Employees who haven't yet joined may visit one of the web sites mentioned above. The site offers a printable version of a gift form (choose payroll deduction), or the opportunity to give using your credit card on line.

## STEGER

*Continued from 1*

ians and vital properties. After the analysis, the panel will examine Virginia's ability to prepare for and respond to the identified risks. If the members find any gaps or threats to the state's preparedness and ability to protect Virginians, it will make recommendations to close the gaps.

Steger, who has graduate degrees in urban planning and environmental engineering, was

selected for his own expertise and for the university's disaster-risk-management and bioinformatics resources. Steger played a major part in creating the World Institute for Disaster Risk Management, a partnership between the university, the Swiss Institutes of Technology, and the World Bank.

The panel is expected to submit its findings by November.

## PRESIDENT

*Continued from 1*

seminars in marketing, business, gardening, computing, architecture and education. Future programming includes courses in: history, forestry, project management, women's studies, marketing, software development and internet security."

On another positive note, Steger reported that *U.S. News & World Report* has recognized Virginia Tech as one of the nation's top-25 public universities. "The College of Engineering undergraduate program was ranked 20th in the nation, and business was pegged at the 38th best in America. In April, *U.S. News* ranked the graduate-engineering program as one of the 25 best in the nation. The vocational and technical Education program was again ranked sixth, the Center for Public Administration and Policy

was ranked tenth.

To achieve continued success in raising its national and international reputation, Steger said, Virginia Tech must have a cluster of programs that are considered to be among the best in the world. "More important than reputation, though, is impact. In our plan, we say, 'As Virginia Tech enters the 21st century, we are mindful of the key role the university plays in the development of productive citizens and future professionals, of the contributions of our faculty members and students to the generation of new knowledge, and of our impact on multiple levels of community and society.'"

Steger said specific plans call for continuing to expand research and applications in information technology. "Before the end of the semester, we hope to announce the creation of

several new graduate degrees in information technology. Later this year we will make an announcement on a bold initiative concerning a range of emerging critical technologies and new facilities. We have been in discussion throughout the summer with various other universities and health providers about partnerships in bioengineering, biomedical, and health applications.

"We plan a new way of doing business in Northern Virginia built around four "footprints" of information technology, urbanization and built environments, policy and governance, and education and leadership. And, I would expect that over the next decade we will strengthen the social sciences, fine arts, and humanities by selective addition of several graduate programs."



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, director of college and media relations.

Editor  
John Ashby, 1-6961

Assistant Editor

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, 102 Media Building, Virginia Tech, Blacksburg, VA 24061.

*Electronic Spectrum*. <http://www.unirel.vt.edu/spectrum/>

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).

## Milos Hudlicky, 82

Milos Hudlicky, 82, professor emeritus of chemistry, died August 31.

Born in Czechoslovakia, Hudlicky studied at the Institute of Chemical and Technological Engineering at the Technical University in Prague (the Institute of Chemical Technology of Prague since 1952) until 1939 when all institutions of higher learning were closed for the duration of the German occupation. He completed his doctoral studies at the Technical University in 1946.

At Virginia Tech, Hudlicky continued his work in organofluorine chemistry. A prolific writer, he wrote 18 books, among them the popular *Oxidations in Organic Chemistry*, *Reductions in Organic Chemistry*, and *Chemistry of Organic Fluorine Compounds*. He published 68 scientific articles—31 of them as the sole author—and held 29 patents. Unlike most senior scientists, he continued to work at the bench until his retirement in 1989; then he devoted his time to writing. In the words of a former colleague in Prague, he was “an example of a professor who was able to combine scientific, mentoring, and public activities ideally into one harmonious unit.”

In 1992, he was awarded the Votocek Medal for Merit in Science and Technology by the Institute of Chemical Technology Prague, one of the highest methods of recognition in chemistry in the Czech Republic. He was a member of the Division of Fluorine Chemistry

## Virginia Tech professor named 2001 state engineering educator

By Liz Crumbley

“A good researcher is usually a good teacher—you need clarity of thought and communication for both,” said Professor Hanif Serali, recipient of the Pletta Award as the 2001 Virginia Engineering Educator of the Year.

The award, established in honor of the late Dan H. Pletta, a nationally renowned educator and an engineering science and mechanics professor at Virginia Tech from 1932 to 1972, is presented annually by the Virginia Engineering Award Committee to recognize an engineering educator who has demonstrated outstanding teaching and public service.

The Pletta Award is co-sponsored by the American Society of Civil Engineers, Virginia Section; American Society of Mechanical Engineers, Central Virginia Section; Consulting Engineers Council of Virginia; Institute of Electrical and Electronics Engineers, Virginia Council; and Virginia Society of Professional Engineers and its Professional Engineers in Education Division.

Serali, the W. Thomas Rice Chair of Engineering at Virginia Tech and a professor of industrial and systems engineering (ISE), has received numerous education awards during his tenure at the university, including the Outstanding Faculty Award from the State Council of Higher Education in Virginia and the Institute of Industrial Engineer's (IIE) Albert G. Holzman Distinguished Educator Award.

## Howell composes anthems for services

By Sally Harris

John Raymond Howell, associate professor in the Department of Music, has been commissioned by Covenant Presbyterian Church in Roanoke to compose four contemporary anthems for a four-part worship series.

Each week in September the church's adult and youth classes will study one of the four selected psalms, leading to a Sunday service focusing on the meaning and message of that psalm through music, scripture, prayer, drama, and sermon. The four psalms represent different approaches to God taken by psalmists in their prayers, including trust and praise, but also lamentation and anger. The texts reflect the earthy and often rough character of the Hebrew originals rather than the more conventional and polished Elizabethan style.

Howell came to Virginia Tech in 1979 from the faculty of the Indiana University School of Music. He holds the B.A. from the University of Puget Sound and the M.M. in choral conducting plus doctoral studies in musicology from Indiana University. In an unusually varied musical career, he has been entertainer, conductor, composer, arranger, performer and teacher in classical, commercial and early music. His choral arrangements have sold more than 20,000 copies world-wide. For 14 years he produced, directed, and was co-arranger with Paul Breske for Virginia Tech's touring musical ambassadors, the New Virginians.

## EXEMPLARY

Continued from 1

### Residential Leadership Program

The top award recipient, the Residential Leadership Community (RLC), is an interdisciplinary program with a mission to prepare students “to participate responsibly as citizen leaders engaged in service to the common good within an interdependent world of vast diversity and complex challenges” Currently, it serves 218 undergraduate students in their first and second years of college.

“The RLC story is a captivating tale of creative collaboration and innovative pedagogy in the service of cutting-edge initiatives within the university,” said Sally Johnston, RLC coordinator and an assistant professor in the Center for Interdisciplinary Studies (CIS), and Barbara Carlisle, former CIS chair, in their nomination letter. The program is academically housed in CIS, which collaborates on all aspects of the program with University Unions and Student Activities (UUSA). Steve Schneider, assistant director for leadership development and student activities, is Johnston's counterpart in UUSA.

Participants in the RLC, which opened in 1998, live together, take common leadership courses in their residence hall, and engage in progressively challenging leadership experiences each semester.

During their first year, students explore leadership theory and competencies and work on a project to benefit the university and local communities. Faculty members from the CIS, Student Affairs, and other areas of the university help participants compare cultural contexts of leadership and develop personal leadership competencies.

Students in the first year of the program have shown a statistically significant increase in leadership skills from fall to spring. In spring 2001, participants received a significant number of university leadership, service, and scholarship awards and were elected to key student leadership roles.

The RLC has received national recognition as a leading edge model for leadership education.

### Department of Forestry

The College of Natural Resources' Department of Forestry earned its Exemplary Department Award thanks, in large measure, to department head Harold Burkhardt's ability to foster an environment where course innovation is encouraged and supported by both equipment and personnel.

“As a result of this support, the department has risen as the national leader in computer and technological innovation for teaching woody plant identification and forest biology,” said Forestry Professor John Seiler, who submitted the department's award application.

Daniel called the department's submission for the award “outstanding.”

In 1994, Seiler began an effort to develop a multi-media tutorial for wood plant (mainly trees) identification for the department's dendrology course. The department supported development of a multi-media lab for both undergraduate and graduate students.

The multimedia team developed a wide array of specific tools, including the textbook, *Woody Plants in North America*, to help students learn how to identify trees. The CD-ROM-based textbook contains the single largest collection of color photos of native North American woody plants in existence.

Comparison studies have shown that students taking these re-designed courses that

use technology have greatly enhanced performance not only in those courses but also in subsequent courses.

### Marriage and Family Therapy Program

“This program is both an academic and clinical training program, and the faculty has expertly entwined the two to create a program that is indisputably in the top three in the country, if not the best,” said a graduate student about the Marriage and Family Therapy Program. It was this dynamic that led to students themselves preparing the nominating package that captured the Exemplary Department Award for the Northern Virginia Center (NVC) program.

“The mission of the master's program,” said Sandra Stith, director of Off-Campus Programs for the Human Development Department at the NVC, “is to train competent marriage and family therapists who are well grounded theoretically and clinically and have a strong research base. We accomplish that in what we feel is a variety of innovative ways.”

The individually focused program accomplishes its mission with three core faculty members working closely with 43 graduate students in small classes. “We have seminar-type classes where the instruction and content include the students experiences and their interpretation of the literature,” Stith said. “Our students contribute to the education of each other.”

An on-site clinic provides students with

the experience of first observing, then providing therapy to real people with real-life problems. Students also serve internships in community agencies.

Students also begin working with faculty members on a variety of clinically relevant research projects in their first year. These faculty members have engaged in research grants totaling more than \$6 million.

## NVC DIRECTOR

Continued from 1

research fellow in the Virginia Tech Transportation Institute, and a fellow of the Center for Organizational and Technological Advancement.

Before joining the faculty at Virginia Tech, he was a senior partner of KPMG Consulting, serving for four years as the coordinating partner of the firm's world-wide management-consulting operations. He also served as a vice president of Science Applications International Corporation (SAIC), as the CEO of two consulting firms, and as a faculty member at Northwestern University and the University of Wales. Additionally, he was president of Mahoe Bay Management Consultants, a professional services firm providing transportation, business strategy, and management services to public- and private-sector organizations.

A native of Great Britain, Worrall received a Fulbright and attended Northwestern University, where he earned M.S. and Ph.D. degrees in civil engineering. He received his undergraduate degree from the University of Durham (England).

Those wishing to make a memorial contribution may send checks for the School of Public and International Affairs in care of the Virginia Tech Foundation, 315 Burruss Hall. Contributors should identify that their contribution is in memorial to Worrall, either on the check or in a note.

Non-Profit Organization, Postage Paid  
Blacksburg, VA Permit No. 28

Virginia Tech  
Blacksburg, VA 24061