

SPECTRUM



VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

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TODAY'S EDITION

**See page 3 for
information on next
Budget Forum.**

Better Budget News for University; Salary Bonuses Approved

By Larry Hincker

The General Assembly completed its work for the 2002 legislative session on March 9. After the conference committee of the Senate and House resolved their differences, the news for Virginia Tech is slightly better than earlier versions reported in *Spectrum*.

The university division will lose \$24.2 million from the Education and General budget in the first year of the biennium beginning July 1. With authorization to recoup as much as \$9.2 million from increased tuition revenues, the net loss will be about \$15 million. (The Board of Visitors is expected to approve new tuition rates at its March 18 meeting.). The reduction increases in the second year of the biennium to \$31.3 million, but the estimated tuition offset also increases to \$18.0 million. (See accompanying chart for more details.)

The university also fared better because the Equipment Trust Fund will lose \$2.4 million as compared to last year's appropriation. Earlier proposals had the university losing nearly \$4 million of the previous year's \$7.9-million appropriation. The Virginia Cooperative Extension/Agricultural Experiment Station losses remain as earlier reported: \$4.3 million in FY 03 (7 percent of current level) and \$4.9 million in FY 04 (8 percent of current level).

(See *SIGNIFICANT* on 4)

General Fund Appropriations

(in millions)

	2002-03	2003-04
University Division		
GF Reductions ¹	(\$ 24.220)	(\$ 31.255)
Research and Public Service Center	(.195)	(.238)
Total General Fund Reductions	(24.415)	(31.494)
Tuition Offset per Conference Committee	9.154	17.975
Net General Fund Reductions	(\$ 15.261)	(\$ 13.519)
Coop Extension/Agric Exp Station		
General Fund Reductions ²	(\$ 4.260)	(\$ 4.869)
Summary of General Fund Reductions		
GF Reductions		
Agency 208 Total E&G GF Reductions	(\$ 24.415)	(\$ 31.495)
Agency 229 E&G GF Reductions	(4.261)	(4.870)
Equipment Trust Fund Reduction	(2.424)	(2.424)
Maintenance Reserve Reduction	(4.373)	(4.312)
Total	(\$ 35.473)	(\$ 43.099)
Tuition Offset	9.154	17.975
Net GF Reductions-All Budget	(\$ 26.319)	(\$ 25.124)
New Funding		
O&M of New Facilities	\$.111	\$.602
Student Financial Assistance	.495	1.023

¹ 2001-02 E & G base of \$185.9 million.

² 2001-02 E & G base of \$61.0 million.

Editor's note: Figures in parentheses are negative.

University community examining restructuring options

By Clara B. Cox

Citing the need to ensure that Virginia Tech's departments, schools, colleges, centers, and institutes are organized "to maximize our opportunities to achieve national and international scholarly distinction in the areas we choose to emphasize as part of our strategic plan," Provost Mark McNamee has announced that the university is exploring possible restructuring of its colleges.

In a March 1 electronic letter to the university's faculty, McNamee discussed the opportunities for restructuring, explained the steps in the process, and described the issues involved in such a move.

Discussions about restructuring the College of Arts and Sciences, the largest of the university's eight colleges, have been under way for some time. McNamee told the faculty in early February that he wanted the university to "look at the structure of the entire university and evaluate options for major changes that could potentially serve us well when we emerge from this [budget] crisis," which elicited a number of restructuring scenarios. Vacancies in three college dean positions, including Arts and

(See *UNIVERSITY* on 6)

Search begins for new engineering dean

By Larry Hincker

The university has begun a search for a new dean of the College of Engineering. "We will engage in a rigorous national and international search with a goal of having a new dean on board by the beginning of fall semester. We are looking for the best this country—indeed, the world—has to offer," Provost Mark McNamee said.

McNamee will personally chair a 19-member search committee, composed primarily of engineering faculty members and including alumni, student, and staff

representatives.

F. William Stephenson, dean of engineering since 1994, has resigned as dean for health reasons and will not resume his duties. "Bill led the college admirably for eight years and maintained its well-deserved world leadership in many disciplines," McNamee said. "Research has made quantum leaps in recent years and our graduates continue to be in demand by the world's leading corporations." Stephenson has been on leave of absence for several months.

The College of Engineering continues to

rank in the nation's top 25 at both the graduate and undergraduate levels. Engineering, with about 6,000 students, is the second largest college in the university. It has the largest research program of any Virginia Tech college, with more than \$41 million in sponsored activity in fiscal 2000, placing it among the top 10 percent of all engineering colleges nation-wide.

Malcolm MacPherson, engineering's former associate dean for research and graduate studies, will continue as acting dean until a replacement is found.

(See *SEARCH* on 6)

Woolsey's vehicle research earns NSF CAREER award

By Liz Crumley

With spinning wheels, moving masses and \$675,000 awarded recently in research grants, Craig Woolsey of Virginia Tech aims to help improve the maneuverability, robustness and reliability of underwater, air and space vehicles.

Woolsey, who joined Virginia Tech's aerospace and ocean engineering faculty in 2001, has received a \$375,000 National Science Foundation (NSF) Faculty Early Career Development Program (CAREER) Award and a \$300,000 Office of Naval Research (ONR) Young Investigator Award to study the design of advanced controls and control mechanisms for unmanned vehicles. These

awards are presented annually to a select roster of young faculty members nation-wide who have the potential to make significant contributions to research and education.

A number of unmanned vehicles, such as the U.S. Air Force's Predator aerial vehicle and underwater exploratory vessels, perform well in limited maneuvers with humans controlling them from the ground or from ships, Woolsey said.

But suppose the Predator, in addition to taking off, flying within a limited range and snapping photographs as ordered, could sense an anti-aircraft missile coming its way and take evasive action? Or suppose an unmanned submarine could be sent out to sea on its own—

without being tethered to a ship—to track the boundaries of El Niño?

Such vehicles would have to use sophisticated control devices and advanced control algorithms—the muscles and brains of any unmanned vehicle—to perform complex maneuvers, Woolsey said. His research for both the NSF and ONR projects will extend new methods of advanced control design to underwater vehicles by incorporating the important effects of lift, drag and other fluid forces. "Lift—the force that keeps an airplane in the air, for example—is an important consideration for air and ocean vehicles, and even some space vehicles," he said.

(See *WOOLSEY'S* on 6)

Board of Visitors to meet March 17-18

The Board of Visitors will hold its quarterly board meeting on campus Sunday, March 17, and Monday, March 18.

The full meeting of the board will be held on Monday, March 18 at 1 p.m. in the Board Room of Torgersen Hall (room 2100).

Subcommittee meetings on Monday, at the Donaldson Brown Hotel and Conference Center (DBHCC), are as follows:

The Academic Affairs Committee will meet at 8:30 a.m., conference room G. The Building and Grounds Committee will meet in closed session at 8:30 a.m. in the Board Room and in open session at 9 a.m. in conference room A.

The Finance and Audit Committee will meet in closed session at 7:30 a.m. and in open session at 8:30 a.m., both in the Executive Conference Room. The Student Affairs Committee will meet at 9 a.m. in conference room C.

Among topics under consideration are tuition-and-fee schedules for 2002-03, a progress report on the Virginia Tech Wake Forest School of Biomedical Engineering, workforce-reduction options, including an alternative severance option; revisions of the *Faculty Handbook* relative to research faculty members, and land transfers.

ACHIEVERS

Gregory Amacher, associate professor in the forestry department in the College of Natural Resources, has been appointed editor of *Forest Science*. The journal is published quarterly by the Society of American Foresters and internationally recognized as a leading forestry research journal.

Ted Oyama of chemical engineering (ChE) has been selected as a distinguished lecturer for 2001-2002 by the ChE department of the University of Louisville in Kentucky. Oyama's lecture, "Hydrogen-Selective Membranes for the Conversion of Greenhouse Gases," describes his discovery of a new inorganic membrane that is 100-percent selective for hydrogen permeation. Oyama has received a patent for this technology, which is under license to a private company.

Paul Winistorfer, professor and new department head of wood science and forest products in the College of Natural Resources, was elected vice president of the Forest Products Society at its 2001 Annual Meeting held in Baltimore, MD.

Winistorfer has been active in wood composites research and has published widely in the area of improving the performance and stability of products such as oriented strandboard, fiberboard, and particleboard. He has pioneered new laboratory equipment and techniques for improved measurement of product performance.

Carolyn Copenheaver, assistant professor in the forestry department in the College of Natural Resources, won second place in the professional poster contest at the Third North American Forest Ecology Workshop on *Issues of Scale: From Theory to Practice*. The workshop was held in Duluth, Minn., last summer and covered issues of scale in forest ecology and management.

Copenheaver's poster, "Mid-succession vegetation development in *Pinus banksiana* ("jack pine") stands in northern lower Michigan," was chosen second place winner in the professional poster contest out of 41 posters presented at the conference. The conference offered a separate poster competition for graduate students.

Harold E. Burkhart, university distinguished professor and Department of Forestry head in the College of Natural Resources, has authored the fifth edition of *Forest Measurements*.

First published in 1967 by T. Eugene Avery, this book has become the standard forest measurements text throughout North America. Burkhart collaborated with Avery in the production of the third edition (1983) and subsequently prepared the fourth (1994) and now the fifth (2002) editions.

Recent advances in electronic and computing technologies have greatly impacted how forest resources are assessed. The fifth edition of *Forest Measurements* retains the principal topics included in previous editions while adding new material on use of electronic devices for measuring distances, electronic equipment for recording field data, global positioning systems for determining locations, and geographic information systems for storing, retrieving, summarizing, and analyzing forestry data. In addition, a book web page is available to supplement, extend, and enhance information in the textbook.

James Johnson, Harry Haney, and Daniel Goerlich have each received a regional Award for Excellence from their peers in Cooperative Extension Service-Southern Region, for their respective projects relating to forestry.

Johnson, associate dean of outreach in the College of Natural Resources, was recognized for his project entitled *Moving Toward Sustainable Forestry: Strategies for Forest Landowners*. Johnson's project, an 84-page glossy handbook produced through the Virginia Cooperative Extension Service (Publication 420-144), describes the many facets of sustainable forestry. The handbook included the meaning of sustainable forestry, ownership roles, forest management, maintaining and enhancing tree growth, protection of special and unique areas, wildlife habitat, protection of aesthetics and recreational values, opportunities and financial incentives for sustainable forest management, and ideas for landowners to enhance their local economy through their forest-management activities.

James Walters, a former Extension associate in the College of Natural Resources' forestry department, co-authored the project with Johnson.

Haney, the Garland Gray professor of forestry and Extension specialist in the College of Natural Resources, was recognized for

his 179-page book entitled, *The Landowner's Guide to Conservation Easements*. Published this year by Kendall/Hunt Publishing Company, the book was written with support from the American Farm Bureau Federation. Haney is an expert in the areas of timber taxation, forest management-economics, estate planning, forest finance, and local forestry regulation.

Haney's book includes the definition of conservation easements, conservation easement grantees—land trusts and public agencies, and protection and tax incentives for easements. The book also includes information on designing conservation-easement deeds, examples of conservation-easement outcomes, and a section on the process of informed decision-making. The book was co-authored by Steven Bick, a former post-doctoral colleague in the forestry department.

Goerlich, associate Extension agent and field representative for forestry and natural resources in Virginia Cooperative Extension's Central District, has been recognized with two awards. One award was for his article "Let's Cruise" under the mass media-journal category and another award for his project entitled "Forest Landowner Education: There's no time like the present" under the program impact category.

Measuring standing timber—a practice commonly referred to as timber cruising—is a critical component of sustainable forest and landowner management according to Goerlich. Goerlich's article, "Let's Cruise," describes the importance of obtaining a timber cruise from a professional forester before harvesting timber.

Goerlich's second award was for his efforts in educating forest landowners about the timber-sale process through his project and article, "Forest Landowner Education: There's no time like the present."

Harry L. Haney co-authored two publications recently released. Haney, an expert in the areas of timber taxation, forest management-economics, estate planning, forest finance, and local forestry regulation, co-authored *Forest Landowners' Guide to the Federal Income Tax*, a 157-page U.S. Department of Agriculture-Forest Service publication (Agriculture Handbook No. 718).

The book incorporates new tax legislation passed, court precedents, and administrative changes promulgated since 1994. It provides help in analyzing forest management investments and includes information on tax planning.

Haney's second publication, "Federal Income Tax on Timber-A Key to Your Most Frequently Asked Questions," is a 28-page pamphlet published by the U.S. Department of Agriculture-Forest Service Southern Region (R8-TP 34).

Deborah E. Young, co-director of Environmental, Health and Safety Services, has recently has achieved the American Board of Industrial Hygiene designation of Certified Industrial Hygienist (CIH). To accomplish this, she has met the education and experience requirements and has passed two eight-hour examinations.

Jeff Mann of the English department won the Key West Writing Contest in Poetry, sponsored by the New York City arts organization Midnight Mind.

The winning poem, "Mallory Square," will be published in the literary magazine *Midnight Mind Number Two* and the book *Key West: A Collection*.

Mann also has an essay titled "Haunted by Home" in a well-reviewed book called *Rebel Yell: Stories by Contemporary Southern Gay Authors*, published by Haworth Press. Mann gave a reading from the book at the bookstore Lambda Rising in Washington, D.C..

Mann has won numerous awards for his poetry, including the First Annual Gival Press Chapbook Competition with his manuscript *Flint Shards from Sussex*. A second chapbook, *Mountain Fireflies*, won the Poetic Matrix Chapbook Series award, and Mann's chapbook *Bliss* won the Stonewall Chapbook Competition. All three chapbooks were published as part of the awards.

Roby Robinson has completed all requirements for certification as an associate safety professional (ASP). The certification is awarded to individuals who meet academic requirements and have passed a comprehensive examination covering basic and applied sciences, safety-program management and evaluation, equipment and facilities, fire prevention and protection,

environmental aspects, and system and product safety. Robinson is an occupational-safety compliance officer with Environmental, Health and Safety Services.

Robert Beaton, an associate professor in the Grado Department of Industrial and Systems Engineering, has been selected by the Human Factors and Ergonomics Society (HFES) to receive the Paul M. Fitts Education Award.

The HFES, a professional organization with 60 chapters throughout the U.S., Canada, and Europe, is honoring Beaton for his contributions to the education and training of human factors and ergonomics specialists. The Fitts award is presented only in years when the society receives a nomination for an especially deserving candidate.

Beaton is affiliated with the Human Factors Engineering and Ergonomics Center and is the director of the Display and Controls Laboratory and the ErgoNorms Compliance Center. A certified professional ergonomist, he conducts research in psychophysics and electronic display workstations. His work with visual displays has received patents and he has helped establish U.S. and international ergonomics standards for computer workstations.

Donald Orth, professor and head of fisheries and wildlife sciences department in the College of Natural Resources, was recently selected to become a member of the Virginia Natural Resources Leadership Institute (VNRLI), Class of 2002.

The VNRLI mission is to improve the capacity of state citizens, businesses, communities and public officials to engage in productive dialogue and resolution of issues concerning the management of Virginia's natural resources and the quality of Virginia's environment.

VNRLI offers multiple sessions for members-elect to become leaders who can help groups involved in contentious natural resources issues move beyond conflict toward consensus building and problem solving. The institute is sponsored by University of Virginia Institute of Environmental Negotiation, Virginia Tech Center for Economic Education, and Virginia Department of Forestry.

Three public relations professionals in the Office of University Relations have won awards for their work from the National Federation of Press Women in the organization's annual communications contest. Only first-place award-winning entries at the state level compete in the national competition.

Susan Trulove, with the Research Division, won a second-place award for a feature news release about research by Michal Kowalewski, geological scientist at Virginia Tech. Kowalewski and colleagues pioneered a means to measure life over 1,000 years to determine waterways' ancient productivity and diversity.

Meg Nugent, graphic designer, and **Clara B. Cox**, director of outreach communications, took a third-place award for the Virginia Center for Civil War Studies' "Civil War Medical Symposium" brochure, which featured photography by **Rick Griffiths**. Nugent designed the piece, while Cox served as editor and co-authored the text with **James I. Robertson Jr.**, alumni distinguished professor of history and executive director of the center.

Cox also won a second-place award for editing *The Faces of Change*, the university's diversity strategic plan, which was designed by **Michele Moldenhauer** and written by **Benjamin Dixon**, vice president for multicultural affairs, and **Alicia Cohen**, assistant to the vice president.

The entries were submitted to the national competition by the Virginia Press Women.

James R. Brown, professor of marketing, was the co-recipient of the Bradford Wiley Memorial Research Award for the paper, "Managing Marketing Channel Opportunism: The Efficacy Of Alternative Governance Mechanisms," *Journal of Marketing*, April 2000. The award, presented by the International Council on Hotel, Restaurant, and Institutional Education, is among the most prestigious awards given for research in the hospitality industry. Brown has won this outstanding research award for the second time in 10 years.

Mary Preston-Alley of the Motor Pool recently earned the
(See ACHIEVERS on 7)

Virginia judge establishes university scholarship

By Terry McGuire

Danny W. Bird, a General District Court judge for Virginia's 27th Judicial District, has pledged \$50,000 to endow a scholarship for local students attending Virginia Tech. The scholarship will provide financial support for deserving Bland County and Wythe County high-school graduates who enroll in the university.

Bird has a long history of service to Virginia and to Virginia Tech. A native of Bland County, he served in Virginia's General Assembly, as did his father and grandfather, representing six counties in Southwest Virginia as a state senator for 16 years. He served in Virginia's General Assembly, as did his father and grandfather. After graduating from Washington and Lee University Law School and practicing law for more than 26 years, Bird, a former Wytheville lawyer was elected in 1992 to his current position.

Bird graduated from Virginia Tech in 1960, having been president of his class and regimental commander of the Corps of Cadets. He has continued to support the university through a variety of leadership positions, including a term

as national president of the Virginia Tech Alumni Association. In 1998, his contributions were recognized when he was awarded the Alumni Distinguished Service Award by Virginia Tech.

"Virginia Tech made a significant difference in my life," Bird said. "I am excited about helping more young people in our region of Virginia have the same opportunity that I did."

Recipients for the Bird Scholarship will be chosen on the basis of financial need, academic achievement and community service. Awards are expected to begin in the fall of 2004.

President's Award for Excellence nominations sought

Nominations are now being accepted for the 2002 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 pay-band 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 until five years after receiving the award. For more information regarding the eligibility of any employee, contact 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; however, self-nominations are not acceptable. All nominations must be submitted on an Award for Excellence nomination form that is available through deans, directors, or department heads, or may be downloaded from the Personnel Services web page, <http://www.ps.vt.edu/>. Evaluation criteria and nomination guidelines are included with the nomination form.

All nominations must be submitted no later than Monday, April 15 to the President's Award for Excellence Committee, c/o Personnel Services, Southgate Center 0318. For additional forms, call 1-7784.

Second Budget Forum Scheduled for University Community

By Clara B. Cox

In an on-going effort to keep the university community apprised of developments in the university's budget situation, Provost Mark McNamee and Executive Vice President Minnis Ridenour have scheduled the second University Budget Forum for Thursday, March 21, from 12:15 to 1:15 p.m. in the Donaldson Brown Hotel and Conference Center auditorium.

"We will provide the entire community with complete and candid assessments and information related to the current budget situation," Ridenour said.

"Now that we have plans submitted, we can begin to assess the programmatic implications of the budget reductions," McNamee said.

The forum will encourage questions from participants following the presentations by Ridenour and McNamee.

Information about the budget is also available by clicking "Budget News" on the Virginia Tech home page.

CORRECTION

Honorifics committee will select nominees for CASE award

An article in the February 15 issue of *Spectrum* inviting nominations for the CASE Professor of the Year award was the result of a misunderstanding regarding a mailing from CASE.

The University Honorifics Committee screens and makes final nominations for the CASE Professor of the Year award. "The committee considers dossiers of recent Wine Award winners as well as recent SCHEV Outstanding Faculty nominees to determine the best fit of CASE criteria with our pool of nominees. Each institution is allowed three nominees for the CASE award," Associate Provost Ron Daniel said.

The University Honorifics Committee does not actually begin the process by requesting nominations. Deans and department heads are asked at the beginning of each academic year to

nominate faculty members for SCHEV's Outstanding Faculty Awards (which were just announced, with Tech faculty members being two of 11 winners state-wide).

The CASE award deadline typically occurs late in the academic year, Daniel said. It is April this year, but has been in May. "In the past there was a problem in running a separate nomination-and-evaluation process for the CASE awards at almost the same time as so many other university awards programs, such as the Wine, Sporn, Alumni Advising, and Provost's Award for Advising Excellence. To streamline the process and ensure that we send our very best candidates forward, the University Honorifics Committee now considers recent Wine Award winners and SCHEV nominees as the university's pool for the CASE awards."

Horticulture garden begins expansion

By Leigh Ann Allgood,
University Relation intern

The Virginia Tech Horticulture Garden is about to become an improved teaching resource, a larger facility for research projects, and a permanent Extension exhibit. It also will offer a larger and more diverse setting for quiet wandering by visitors.

The horticulture garden is expanding to six acres, providing many more opportunities than the current two acres. Expansion plans include a stream garden, a home demonstration garden, a terrace garden, a meadow garden, and a visitor center. The existing two acres will become the lawn and border garden. The overall cost of expansion is estimated at \$3 million to \$4 million.

Robert Wright, professor of horticulture, is directing development of the stream garden, a project made possible by a donation from Preston Andrews in memory of his late wife, Jane Andrews. A resident of Alta Vista, Andrews received his bachelor's degree in business administration from Virginia Tech in 1950.

The Jane Andrews Memorial Stream Garden will provide a valuable teaching asset for the university as well as the public. A bridge constructed of Hokie stone and heavy timbers will connect the existing gardens to additional acreage and will provide an overlook to the stream garden. The 200-foot stream will include a waterfall and a variety of water environments. Completion of the stream garden is expected this spring and more features will be developed as funding becomes available.

"I consider the stream garden to be a unique and valuable gem—there is no other place like it on campus," said Holly Scoggins, assistant professor of horticulture and director of the horticulture garden. "I hope to raise awareness of this tremendous asset to both Virginia Tech

and the New River valley community, in part to help generate the funds to make the expansion happen."

Stephanie Huckestein, who received her bachelor's degree in horticulture in 1998 and has owned a landscaping business, became the garden's head horticulturist in 2001. Alex Niemiera, associate professor of horticulture, is curator of the woody-plants collection. "The garden's resources expose students to the fundamentals of horticulture, and provide a hands-on acquisition of skills, problem solving, and an appreciation of the various aspects of ornamental horticulture and the role of community gardening," Niemiera said.

As an academic resource, the horticulture garden serves an integral function in 16 courses in the horticulture department and the agriculture technology program. In addition to studying and researching plant species found in the garden, students gain experience with landscaping, plant propagation and hardscape: non-plant landscape elements such as decks, walls, and arbors.

The horticulture garden also serves as a test site for the Landscape Species Evaluation Program of the Virginia Nursery and Landscape Association. This program investigates the possible use of seed species from China in the expansion area, as well as hybridization of these species with native species. Hybridization can yield landscape species with traits such as disease resistance and aesthetic characteristics.

The resources provided by the garden to horticulture students and those in other departments, such as entomology, serve as a living laboratory for hands-on education. The educational opportunities offered by the garden also are enjoyed by the local community and primary and secondary school students.

VDS4 receives AIGA award

Visual Design Studio 4 (VDS4) recently received an AIGA GRADE 2002 Student Merit Award.

VDS4 is a new facility at Virginia Tech that allows students to earn vital professional-design experience by working with graphic-design faculty members to produce professional-quality products for clients.

The Richmond Chapter of the American Institute of Graphic Arts 2002 Greater Richmond Awards for Design Excellence (GRADE) were presented in January at the Children's Museum of Richmond. VDS4 received a Student Merit Award for its direct mailer, designed by student interns Jade Ryan Minnich and Justin Howard. Minnich also received a Student Merit Award for a project from a previous internship, giving VDS4 interns two of the eight student merits in the competition.

For additional information about Visual Design Studio 4, go to <http://www.vds4.net>.



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ACTIVITIES

EVENTS

Friday, 15

Pay Date for Faculty and Staff Members.
Last Day to Resign.

Saturday, 16

Chamber Music, 8 p.m., Squires Recital Salon.
Phenology Field Trip, 1:30 to 3:30 p.m., Museum of Natural History.

Sunday, 17

Board of Visitors Meets.
Chamber Music, 3 p.m., Squires Recital Salon.
YMCA Hike, 1:30 p.m., YMCA parking lot.

Monday, 18

Board of Visitors Meets.
University Council, 3 to 5 p.m., 1045 Pamplin.
Women’s Month Event, 9 a.m. to 5 p.m., Women’s Center: Clothesline Project Workshop (through 3-22).
CommonHealth Program, 12:10 to 12:55 p.m., Wallace atrium.
Hort Garden Class, 6 to 7:30 p.m., Greenhouse classroom: Propagating Indoor Plants.

Tuesday, 19

Humanities-funding workshop, 9 to 11 a.m., DBHCC Executive Committee Room.

Faculty Senate, 7 p.m., 32 Pamplin.
Web Course Request Fall/Summer 2002.
Family, Work/Life Resources Program, noon to 1 p.m., DBHCC conference room G.
CommonHealth Program, 12:10 to 12:55 p.m., DBHCC conference room A.

Wednesday, 20

Family, Work/Life Resources Program, noon to 1 p.m., DBHCC conference room G.
VTU Event, 6:30 p.m., Burruss auditorium: “Peking Acrobats.”
“**With Good Reason**,” 7 p.m., WVTF.

Thursday, 21

Staff Senate, noon 1810 Litton Reaves.
Family, Work/Life Resources Program, noon to 1 p.m., DBHCC conference room G.
Women’s Month Event, 7:30 to 9:30 p.m, Drillfield: Take Back the Night Rally and March.

SEMINARS

Friday, 15

Highlands in Chemistry, 11:15 a.m., 3 Davidson: Troy D. Wood, SUNY at Buffalo.
PCOB, 11:15 a.m., 1045 Pamplin: John Mathis, Thunderbird.
MCBB, 12:20 to 1:10 p.m., Fralin auditorium: Stuart

Newfield, Arizona State.
Geological Sciences, 2:30 p.m., 4069 Derring: Dale Evans, Yale.
Statistics, 3:45 p.m., 409 Hutcheson: Sastry Pantula.
STS, 4 p.m., 132 Lane: Jenny Reardon, Harvard.

Tuesday, 19

PCOB, 2 p.m., Owens Banquet Hall: Philip S. Thompson, IBM.
ECE, 3:30 to 4:20 p.m., 300 Whittemore: Jim Mink, NSF.
Geological Sciences, 4:00 p.m., 4069 Derring: Steve Ingebritsen, USGS.

Wednesday, 20

ESM, 4 p.m., 136 Norris: Frank Baginski, GWU.

Thursday, 21

CSES, 4 p.m., 246 Smyth: Mark Alley.

Friday, 22

Highlands in Chemistry, 11:15 a.m., 3 Davidson: Richard D. Sacks, University of Michigan.
SPIA, 3:30 p.m., DBHCC auditorium: Greg Simon, Simon Strategies, Inc.
MCBB, 12:20 to 1:10 p.m., Fralin auditorium: Parag R. Chitnis, Iowa State.
CASS, 3 to 4 p.m., 307 Davidson: Joseph E. Marcy.
STS, 4 p.m, 132 Lane: Wenda Bauchspies, Penn State.

BULLETINS

Cranwell Center to sponsor visa briefing

The Cranwell International Center will sponsor an orientation briefing regarding H1B visa procedures and Permanent Residency options Monday, March 25, from 5 to 7 p.m. in 223 Engel. The presentation will be by immigration attorneys from McCandlish and Holton, a law firm in Richmond.

The program is open to all interested faculty and staff members and students who have questions related to an extended stay of foreign personnel in the United States. The H1B visa is a temporary but long-term method for faculty and staff members in specialized fields of study and research to remain at Virginia Tech. Permanent residency requirements and associated procedures to obtain a “green card” will also be addressed.

A limited number of appointments are available to meet with the lawyers individually to discuss personal permanent residency issues. These will be conducted at the Cranwell Center before the presentation and are free of charge. To schedule a personal appointment with an attorney, and for information related to the presentation please contact the University H1B Visa Coordinator Stephen Conrad at sconrad@vt.edu, or 1-8968.

Graduate Programs showcased at Open House

Faculty members and admissions representatives will be available to discuss the more than 45 graduate programs offered by Virginia Tech in Northern Virginia at Virginia Tech’s Spring Open House on Saturday, March 16, from 9 a.m. to noon at the Northern Virginia Center in Falls Church.

The open house will be held in room 214 at the Northern Virginia Center, 7054 Haycock Road in Falls Church and adjacent to the West Falls Church Metro Station. For more information about the open house or about Virginia Tech’s graduate programs, call 703/538-8300 or visit the web site at www.nvc.vt.edu.

Mathematics program to be presented

“The Mathematics of Entertainment, the Entertainment of Mathematics” will be presented by Ezra Brown, professor in the Department of Mathematics, on Wednesday, April 17, at 7 p.m. in the auditorium of Donaldson Brown Hotel and Conference Center.

Card games, juggling, and games of chance are all aspects of entertainment which can be highly mathematical. Brown’s presentation will explore such topics as perfect shuffles, random shuffles, and figuring the odds.

“The Mathematics of Entertainment, the Entertainment of Mathematics” is sponsored by the Department of Mathematics in celebration of Math Awareness Month at Virginia Tech. Men and women from high school age on up, who have an interest in math and science, are welcome to attend the presentation.

For more information, contact Susan Anderson at 1-8041 or anderson@math.vt.edu. Persons with a disability who desire assistive devices, services, or other accommodations to participate in this activity, should contact Anderson to discuss accommodations at least one week before the event.

Civil War program offers medical insight

On March 22-24, physicians will gather in Roanoke to examine the influence of the American Civil War on their profession.

The event will be the Second Civil War Medical Symposium, organized by Virginia Tech’s Virginia Center for Civil War Studies. The symposium has been approved by the Carilion Health System for 7.5 continuing-medical-education credits in category I.

The symposium will feature presentations by six physicians and two Virginia Tech Civil War history professors, a demonstration of Civil War surgical instruments, and displays of Civil War mementos from the Special Collections Department of Virginia Tech University Libraries.

During the opening session on March 22, James I. Robertson Jr., will deliver the keynote address on “Why Sickness Was the Biggest Killer in the Civil War.”

The weekend event, which begins on Friday night and closes at mid-morning on Sunday, will be held at the Hotel Roanoke and Conference Center. For more information or to register, contact Donna Raines at 1-5241 or draines@vt.edu.

Phenology field trip offered

The Virginia Museum of Natural History at Virginia Tech will sponsor a phenology field trip on Saturday, March 16, from 1:30 to 3:30 p.m. Dana Raines, outreach educator for the College of Natural Resources, will point out early signs of spring, and introduce the GLOBE environmental-science investigation program, which is of special interest to teachers. Field activities are appropriate for ages 10 to adult. Meet at the museum. Pre-registration is requested by calling 1-3001.

Museum offers fossils program

The Virginia Museum of Natural History Saturday will offer a fossils program March 23, from 11 a.m. to noon. Information presented will include how fossils form and what they can reveal about the past. Activities integrate games and crafts with key science concepts. Pre-registration is requested at 1-3001.

Service-Learning Center registering courses

The Service-Learning Center is registering courses for Maymester, summer and fall 2002 that include a community service or outreach component. Course-registration forms may be downloaded from the center’s web site at <http://www.majbill.vt.edu/sl/faculty.html> or can be requested by calling 1-6964. For more information, contact Michele James-Deramo at

1-6947 or deramo@vt.edu.

CVC to sponsor charity workshop

The Virginia Tech CVC Steering Committee will sponsor a workshop for charities interested in applying to be included in next fall’s campaign. The event will be held at the Donaldson Brown Hotel and Conference Center, room A, on Wednesday April 3, from 3 to 5 p.m.

All CVC charities must have 501c3 status, be registered with VDACS to solicit funds in Virginia (this can be through a federation or association); provide qualifying services which include a wide range of health and human services, animal welfare, and environmental restoration or conservation; demonstrate sound financial management; and be located in Virginia or have a toll-free number.

For more information, contact Steve Mouras, Tech’s CVC coordinator, at smouras@vt.edu, or Karen Cronin at kcronin@vt.edu.

VTIP invites input

Virginia Tech Intellectual Properties, Inc (VTIP) is reviewing its support of Virginia Tech Inventors. A short survey of researchers’ and others’ impressions of the service that VTIP provides is posted on the web.

“We welcome everyone’s participation, even those who have not had an invention,” said Michael J. Martin, VTIP’s executive vice president.

Visit www.vtip.org/survey2002.htm to participate. For more information, contact Debbi Lucas, VTIP executive secretary, at 951-9374 or lucasd@vt.edu.

Forest-products-marketing workshop slated

The Center for Forest Products Marketing and Management at Virginia Tech will conduct its Ninth Annual Workshop on Forest Products Marketing April 16-17. This workshop will introduce the basics of marketing to new marketing and sales personnel and update current personnel of changing factors affecting the industry.

The two-day workshop will be held on the Virginia Tech Campus. The program will concentrate on the fundamental principles of marketing and salesmanship as they apply to the forest-products industry. Topics will include a forest-products overview, what marketing is, distribution, pricing, promotion, strategy, forest certification, personal selling, international and domestic markets, marketing research, and marketing trends.

Instructors for the workshop will be Bob Smith, Bob Brush, and Tom Hammett from the Department of Wood Science and Forest Products at Virginia Tech. For registration materials or additional information, contact Smith at 1 5876 or rsmith4@vt.edu.

First Union Securities speakers scheduled

By Sookhan Ho

Two Virginia Tech alumni who are top executives at IBM and Polo Ralph Lauren will speak on campus as the First Union Securities Distinguished Speaker Series at the Pamplin College of Business.

Philip S. Thompson, IBM vice president of business transformation and chief information officer, will speak on Tuesday, March 19, at 2 p.m. at Owens Banquet Hall. Bridget Ryan Berman, president and chief operating officer of Polo Ralph Lauren's retail division, will speak on Wednesday, March 27, at 4 p.m. at the Donaldson Brown auditorium.

Thompson and Berman will discuss their careers, their respective industries, and leadership issues. Their talks, which are also organized as part of Black History Month and Women's History Month activities, are open to all Virginia Tech faculty and staff members and students.

Thompson earned an M.S. in systems en-

gineering in 1977, and is a member of the Board of Visitors. At IBM, he leads overall business process re-engineering and e-business initiatives and directs IT investments.

He joined IBM in 1972. During the next two decades, he assumed increasing responsibilities at the company, including duties in Europe and Japan.

He left IBM in 1993 to work for Pitney Bowes' Monarch Marking Systems, moving a year later to Zenith Electronic Corporation. He returned to IBM in 1996.

Berman, a native of Richmond, received a B.S. in business administration in 1982. A *Richmond Times-Dispatch* profile story last year said she oversees the operations of Polo's 32 full-price retail stores and 120 outlet locations.

Berman entered the executive management training program at the former Miller & Rhoads department store after she graduated. She moved to other stores, including Rich's in Atlanta and Thalhimers. She joined Polo in 1992.

University Exemplary Department Awards Program nominations sought

Each year the university recognizes the work of departments and/or programs that maintain exemplary teaching and learning environments for students and faculty members. The awards program was established as a part of the University's Faculty Rewards Project, a project which seeks to clarify the expectations of faculty members, and define appropriate rewards for accomplishments.

This year, the departments and programs will be recognized for their work in maintaining a high quality of advising at the graduate or undergraduate levels. The deadline for submitting nominations for the awards is noon, Friday, April 12. The recognition includes two \$10,000 awards and a \$20,000 award to the departments and/or programs selected by a

committee drawn from the university community.

Nominations are encouraged from undergraduate and graduate students, faculty members, and others who have benefited from the advising work of the nominated department(s). With this award, we publicly honor the collaborative efforts and successes of a group of dedicated colleagues—actively performing work that is essential for sustaining a truly excellent academic environment.

Letters of nomination, not to exceed two pages, should describe the achievements of the department(s) in this year's topical area of advising. Letters should be addressed to: Exemplary Department Awards Program Committee, c/o Ronald Daniel, Office of the Provost, 330 Burruss Hall, mail code 0132.

Natural-science-management lectures slated

By Lynn Davis

National scientists and policymakers will discuss real world politics at College of Natural Resources public lectures that are part of the "Role of Science in Natural Science Management" class. Assistant Professor Jim Berkson invites guest speakers each year to expose his students to the important tools and realistic expectations required to be an effective scientist within the resource-management process.

Phillip Mundy, chief scientist for Gulf Ecosystem Monitoring with the Exxon Valdez Oil Spill Trustee Council in Anchorage, Alaska, will give a seminar Monday afternoon, March 18, on sustainable fishery management and how fisheries are managed in response to the everyday political realities. His evening lecture will be geared toward students and what they should expect when they get out of school, and how they can be effective in the real world.

Joshua Ginsberg, director of Asia Programs for the Wildlife Conservation Society in New York, will speak on conservation. Ginsberg has authored over 55 publications, has received 15 grants, and was previously a lecturer at Oxford University.

Recognized as an international conservation leader, Ginsberg conducts workshops on topics such as "Conservation of Endangered Mammals" and "Why Big Fierce Things are Rarer and Rarer: Global Challenges in Wildlife Conservation." He will speak Thursday evening, March 21, and give a seminar Friday afternoon, March 22.

Senator Bill Bolling, who represents the fourth district in the Virginia Senate, will talk on the evening of April 18 about his role on Senate committees and state commissions, and will explain how policymakers affect science and what scientists can do or say to influence decisions.

Susan Shipman, director of the Coastal Division of the Georgia Department of Natural Resources, is scheduled to speak Wednesday, April 24, about her experiences on becoming a scientist, and her upward career path from agency field biologist to director of the division.

Shipman has had policy appointments on the Atlantic States Marine Fisheries Commission and the South Atlantic Fisheries Management Council. She is an expert at working with and maintaining the trust of scientists, stakeholders, and fishermen.

For information on the specific lecture times and sites refer to web site www.fw.vt.edu/berkson/Teaching/FiW4444/speakers.htm, e-mail jberkson@vt.edu, or call 1-5910.

Blues scholar Ferris to speak, perform on campus

By Sally Harris

William Ferris, blues scholar and former chairman of the National Endowment for the Humanities, will present a free public lecture/performance called "Memory and Sense of Place in the American South" Monday, March 18, at 7:30 p.m. in the Donaldson Brown auditorium.

Ferris, who was a consultant to the movies *The Color Purple* and *Crossroads*, the latter about blues music, will illustrate his talk with excerpts from his film on the Mississippi Delta Blues called *Give My Poor Heart Ease*. The film features B.B. King and scenes from Parchman Penitentiary.

Ferris also will play the guitar, sing, and show slides he took during his folklore field work in Mississippi.

Ferris's lecture will call attention to the new South Atlantic Regional Humanities Center, a collaborative effort of Virginia Tech, the University of Virginia, and the Virginia Foundation for the Humanities. Ferris's lecture also will commemorate the 200th birthday of Solitude and the efforts to renovate Virginia Tech's oldest building to serve as an Appalachian Center.

As an author, folklorist, filmmaker and academic administrator, Ferris has compiled a distinguished record of achievement and leadership in the humanities during a career spanning nearly three decades. Before becoming chairman of the National Endowment for the Humanities in November 1997, Ferris served for 18 years as founding director of the Center

for the Study of Southern Culture at the University of Mississippi in Oxford. Under his leadership, the University of Mississippi developed the most comprehensive southern studies curriculum in the nation.

A professor of anthropology and a prolific author, Ferris spearheaded the creation of the best-selling *Encyclopedia of Southern Culture*, published in 1989. Containing entries on every aspect of southern culture and widely recognized as a major reference work linking popular, folk, and academic cultures, the volume was nominated for a Pulitzer Prize. In Russia, Eastern Europe and Australia, it has been used as a tool for understanding cultural and social diversity.

Take Back the Night rally and march scheduled for March 21

The thirteenth annual Take Back the Night Rally and March in Blacksburg will be held Thursday, March 21. The purpose of the rally and candlelight march is to protest violence against women and to promote awareness of attitudes, beliefs, and behaviors which perpetuate violence.

Pre-rally music and readings begin at 7 p.m. on the Drillfield in front of Burruss Hall. The rally, which will include speakers and musicians, will be held between 7:30 p.m. and 8 p.m. (Rain location is the Wesley Foundation, located at the corner of Roanoke and Otey Streets in Blacksburg.) Beginning at 8 p.m., participants will march through campus and downtown Blacksburg, returning to the Drillfield for a closing celebration. The march route is accessible for disabled persons.

The first Take Back the Night event was held in Germany in 1973 in response to a series of sexual assaults, rapes, and murders. Five years later in the U.S., a Take Back the Night

march was held in San Francisco; over 5,000 women from 30 states participated.

Women and men of all ages are encouraged to join in the event, which is part of Women's Month 2002. Participants are asked to bring small candles or flashlights.

Participants are asked to wear a purple ribbon tied with a knot for every friend or family member who has been sexually assaulted. Ribbons will be worn throughout Women's Month to show support for victims and to protest sexual violence against all people. Purple ribbons will be available at information tables before events during Women's Month and each weekday at the Women's Center. (The Women's Center is located behind McBryde Hall.)

For more information, please contact Susan Anderson at 1-8041 or 951-2013.

Clothesline Project Display

The Clothesline Project, an effort to raise awareness of violence against women, is a visual testimony to the effect of violence against

women and the impact it has on society. Survivors of violence—and friends and families of victims—create shirts emblazoned with direct messages and strong illustrations.

The Clothesline Project educates the public about the scope of violence against women and the impact it has on individuals, their families and friends, and the community. The project encourages survivors to come forward to break the silence by creating shirts to share their stories. To create a shirt, go to the Women's Center behind McBryde Hall any time from 9 a.m. to 5 p.m. from Monday, March 18, to Friday, March 22.

Displays will be on view Wednesday, March 20, on the Women's Center lawn from 9 a.m. to 5 p.m.; Thursday, March 21, on the Drillfield from 9 a.m. to 5 p.m.; and Friday, March 22, on the Women's Center lawn from 9 a.m. to 5 p.m.

For more information, contact Anderson or e-mail Loretta Ullrich at lullrich@vt.edu.

SIGNIFICANT

Continued from 1

The General Assembly also plans to fund a 2.5-percent-of-base-salary bonus in November, 2002. Classified employees will have the option to take 10 days of vacation in lieu of the bonus, or a yet-to-be-determined combination of the two. The state will issue guidelines later.

The university stands to garner significant new funding for buildings and renovation under

a debt-financing bill passed by the General Assembly. A portion of those funds will require voter approval in a state-wide referendum. If the vote passes in November, Tech will receive \$137.1 million in General Fund appropriations for 17 projects. This will be directed toward nearly \$295 million in construction projects on campus.

(Editor's note: Spectrum will publish the entire list of General Fund and non-General Fund projects in an upcoming issue.)

New appropriations for the first year of the biennium include \$110,000 to support operations and maintenance of new facilities and about \$495,000 in additional tuition aid. The appropriations bill and other bills affecting the university will go before the governor for his approval or modification. The General Assembly will meet again in "veto session" to review those changes on April 17.

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

Administrative Assistant, 007872S, PB 3, VTIMR.
Boiler Operator, 007312F, PB 3, Power Plant.
Database Administrator, 004577M, PB 4, Entomology.
One full-time food-service position available.
Housekeeping Worker, 001139Y, PB 1, DBHCC.
Laboratory Specialist, 007922R, PB 4, VBI.
Office Specialist, 000242H, PB 2, RDP.
Office Specialist, 002237H, PB 2, RDP.
Program Support Technician, 002258S, PB 3, Office for Equal Opportunity.
Radiologic Technologist, 002394M, PB 3, VTH.
Sales/Marketing Manager, 000478H, PB 3, RDP.
Service Leader Senior, 007797H, PB 1, RDP.
Technical Director, 007932G, PB 4, Library.
TV/Media Systems Engineer, 000196A, PB 4, VBS.

Unix Systems Administrator, 006789G, PB 5, University Libraries.
Web Designer, 007510A, PB 4, BEV.
Wireless Network Security Engineer, 007931R, PB 5, VTTI.

PART TIME

Animal Care Technician, W022563M, PB 1, VTH.
ILL Assistant, W023177G, PB 2, University Libraries/ILL.
Large Animal Husbandry, W022155M, PB 1, VTH.
Library Courier Driver, W023387G, PB 2, University Libraries/Circulation.
Radiologic Technologist, W022412M, PB 3, VTH.
Veterinary Technician, W023340M, PB 4, VTH.
OFF CAMPUS
Adult Scnep Program Assistant Duplicate, 006820J, PB 2, VCE—Norfolk City.

Efnep Program Assistant, 007496M, PB 2, VCE—Patrick County.
Geographic Data Developer, 007913M, PB 4, BSE.
Radio Announcer, W020800S, PB 3, UR/WVTF Radio.
Research Assistant, W023389M, PB 2, Hampton Roads AREC.
Secretary Senior, 002089R, PB 2, Northern Virginia Center.

FACULTY POSITIONS

INSTRUCTIONAL

Human Nutrition, Foods, Exercise. Assistant Professor/Extension Specialist, Consumer Food Safety.
 Contact: Dianne Yardley, 101 War Memorial (0317).
 Review begins May 3.

Rohr wins NPA award

John Rohr, professor in the Center for Public Administration and Policy (CPAP), will be awarded the American Society for Public Administration's Dwight Waldo Award for 2002 at the ASPA National conference in Phoenix, Arizona, in March. Rohr will receive the award for outstanding lifetime career contributions to the literature and leadership of public administration. He will also be featured in the *Public Administration Review*.

Rohr holds a Ph.D. in political science from the University of Chicago, and graduate degrees in philosophy and theology from Loyola and Georgetown Universities respectively. He has written and lectured extensively on the constitutional foundations of public administration and on ethical issues that confront the career civil servant. He is the author of six books and has another, *Civil Servants and Their Constitution*, due out in March.

In 1988, Rohr received the Distinguished Research Award presented jointly by the American Society for Public Administration (ASPA) and the National Association of Schools of Public Affairs and Administration (NASPAA). The following year he received a Fulbright Research Scholar Award and spent nine months in Paris at the *Institut d'Etudes Politiques de Paris*.

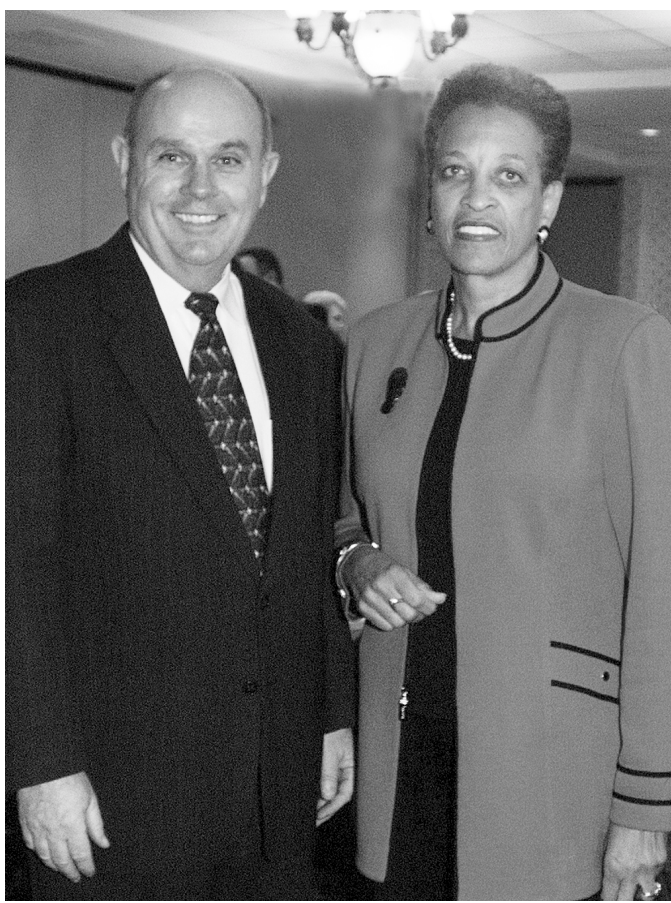
During his professional career, Rohr was also selected a fellow by the NASPAA and during this fellowship served as associate director of the General Management Training Center of the U.S. Civil Service Commission. In 1995, he was selected a fellow of the National Academy of Public Administration and in 1997 received the College of Architecture and Urban Studies' award for teaching excellence.

SEARCH

Continued from 1

Committee members and their representations are Lay Nam Chang, deans; Richard Claus, materials science and engineering; Jesus de la Garza, civil and environmental engineering; Tom Dingus, research centers; Richard Goff, engineering fundamentals; Rodd Hall, engineering administration; Michael Hyer, engineering science and mechanics; Mary Hunter, classified staff; Wayne Neu, aerospace and ocean engineering; Wing-Fai Ng, mechanical engineering; Thomas Novak, department heads; Saifur Rahman, Alexandria Research Institute director; Judy Riffle, faculty member outside engineering; John Rocovich, Committee of 100; Tonya Smith-Jackson, industrial and systems engineering; Joseph Sullivan, chemical engineering; William Tranter, electrical and computer engineering; Konstantinos Triantis, Northern Virginia and ARI faculty; and Theresa Wynn, college graduate students.

UNIVERSITY GREETING
Provost Mark McNamee is shown with Black History Month keynote speaker Johnnetta Cole at last month's program. (M. Kiernan)



WOOLSEY'S

Continued from 1

Woolsey and his graduate students are building a spherical underwater vehicle with internal rotors. These rotors are like the mechanisms used in many spacecraft to control where the spacecraft points, he said. The vehicle will be tested in a water tank being constructed in Randolph Hall. "As a first step, we'll program the vehicle and have it perform maneuvers similar to those of an unmanned spacecraft," Woolsey said. "The next step will be to add a streamlined hull and a propeller and control how the vehicle swims." Woolsey also is exploring the use of moving masses for underwater vehicle control.

One of the goals of his project is to find ways to perform successful maneuvers with most of the controls inside the vehicle. "In the ocean, external controls such as propellers and rudders are subject to corrosion and biological fouling and unusual problems like seaweed," he said. For unmanned ocean vehicles to operate on their own for long periods, their controls mechanisms would have to be protected—just as the controls for spacecraft have to be protected from intense forces and heat when re-entering the atmosphere. The devices and control strategies Woolsey is developing can be used for both of these applications.

Another goal is to design controls that will enable the underwater vehicle to move at a low velocity or even hover without being thrown off-track by disturbances from waves or currents. "For instance," Woolsey said, "imagine an unmanned submersible that could find an underwater minefield on its own, then hover at the mines and plant detonators to clear the area for ship passage."

Woolsey's CAREER project also has an educational focus. In addition to using his research on non-linear controls in undergraduate and graduate courses, he is serving as the faculty adviser for a team of students planning to enter an unmanned-underwater-vehicle competition. "One of my former students already has organized a team," he said. "Working with vehicles is one reason students go into engineering and hands-on projects are among the best learning tools."

Woolsey was an undergraduate at Georgia Tech. He continued his education at Princeton University, where he was a Guggenheim fellow and earned his master's and Ph.D. degrees in mechanical and aerospace engineering.

(Editor's note: This is the third of a series of articles covering university faculty members who have received NSF funding.)

UNIVERSITY

Continued from 1

Sciences, and the need to use resources efficiently and creatively as the university continues its push to become a top-30 institution in the face of state budget cuts also spurred the move toward university-wide discussions.

The provost said that he plans to report to President Charles Steger and to the Board of Visitors at its March 18 meeting on "the most-promising options for change." Based on the response he receives, he will then present specific plans to the university community for discussion before recommending formal action by the board. He said he plans to have decisions about restructuring in place before May 1.

During the next three weeks, McNamee said, he will seek advice and feedback from the entire university community and will schedule a series of "town-hall" meetings to take place after spring break.

In the letter to the faculty, McNamee included a list of 15 "primary intellectual areas of scholarship" that he said reflect the existing strengths of the university. He noted that these areas, which he described as "school-like," provide "a coherent framework" for Tech's missions of education, research, and outreach and "are consistent with common alignments at major research universities." They include agriculture, architecture and design, arts, business/management, computer science and information sciences/technology, education, engineering, human resources, humanities, life sciences, mathematical and physical sciences, natural resources, planning and policy studies, social and behavioral sciences, and veterinary medicine.

The challenging task, he said, "is to group these areas into college-like structures to the extent appropriate." He presented eight different grouping possibilities, telling the faculty that the areas "should provide a logical academic home for all Virginia Tech faculty members and departments" although departments and/or programs could be re-aligned. Any restructuring needs to be synergistic with major initiatives focused around the areas of biomedical and health sciences, critical technologies, and enhanced programs in humanities and social sciences, he said.

McNamee said large research and outreach programs, such as Cooperative Extension and the Agricultural Experiment Station, and major professional programs, such as the doctor-of-veterinary-medicine program, "must have appropriate homes within the university." Programs, centers, and institutes, he said, will continue their current activity, but he called for a comprehensive review of center organization.

ACHIEVERS

Continued from 2

certified professional secretary (CPS)™ rating. Preston-Alley participated in the Professional Development Program offered by the Virginia Tech CPS Group, the Office of Personnel Services and Continuing Education. The CPS exam is an extensive one-day, three-part exam administered by the International Association of Administrative Professionals (IAAP). Completion of the exam provides the opportunity to begin an associate degree program at the community-college level with several credit hours already earned. Finance and business law, office systems and administration and management are covered on the exam.

To date, 29 administrative professionals have participated in the Professional Development Program on the Virginia Tech campus, 10 of whom have passed the three-part CPS exam.

Harold Burkhart, Philip Radtke, Stephen Prisley, Ralph Amateis, Mahadev Sharma, Jason Henning, and Matt Kamp, of the College of Natural Resources, gave presentations at the International Union of Forestry Research Organizations (IUFRO) conference held in Vancouver, British Columbia.

Burkhart, university distinguished professor and Department of Forestry head, delivered an invited talk on “Growth and yield models for sustainable management of loblolly pine.”

Amateis, senior research associate, Mahadev Sharma, postdoctoral research scientist, and Burkhart, delivered a presentation on “Using miniature scale plantations as experimental tools for assessing sustainability issues.”

Radtke, assistant professor of forestry, along with co-authors from the University of Idaho, presented “Reverse-engineering forest growth models to recover data sets for further analysis.” Radtke made a second presentation with a collaborator from the University of Minnesota on “Evaluating uncertainties in model predictions for long-term, large-scale ecosystem management.”

Prisley, associate professor of forestry, gave a presentation on “Spatial harvest and habitat scheduling for sustainable forest management.”

Graduate students Henning and Kamp, presented poster presentations entitled “Improving growth and yield estimates with process-based modeling” and “Modeling the balance: timber and habitat,” respectively.

Neal Castagnoli, of the Peters Center for the Study of Parkinson’s Disease and Diseases of the Central Nervous System, gave an invited presentation at the Fifth International Symposium on the Biological Oxidation of Nitrogen in Organic Molecules in Munich. His presentation was titled “Oxidation of Cyclic Allylic Tertiary Amines: MAO, P450 and Model Reactions.” Castagnoli also attended the American Chemical Society 222nd National Meeting in Chicago, where he co-chaired a day-long symposium on “Biomolecular Processes as Seen by a Mass Spectrometer” for the Division of Chemical Toxicology.

At the Savannah regional American Chemical Society (ACS) meeting, **Paul Deck** of the chemistry department concluded his service as chair of the SERMACS (Southeastern Regional Meetings of the American Chemical Society Inc.) Steering Committee. He was then elected to serve a three-year term as the secretary-treasurer of SERMACS. His term will end at the Raleigh-Durham meeting in 2004. Deck has set up a web page for the Steering Committee that provides an archive of committee documents and other information at <http://www.chem.vt.edu/chem-dept/deck/steer.html>.

The book *Popular Culture: From Cavespace to Cyberspace* by **Marshall Fishwick**, professor of humanities and American Studies, has been sold for Korean translation to Chunga Publishing Company in Seoul. The book will be published in about 18 months.

Sociology Professor **Clifton Bryant** organized and presided over a session on the terrorist destruction of the World Trade Center’s twin towers for the upcoming annual convention of the Mid-South Sociological Association in Mobile, Ala., in October.

The session was titled “September 11, 2001—The Second Day of Infamy: The Terrorist Attack and a Changed America.”

A.L. Eller, retired Extension specialist, was inducted into Virginia Tech’s College of Agriculture and Life Sciences’ Hall of Fame in October.

The induction was part of the college’s homecoming activities attended by more than 300 alumni. Also a part of the homecoming activities was the awarding of the college’s Young Agricultural Alumni Citation Award to Philip M. Fravel, who completed his studies for a doctorate in agricultural education last year.

Joan Ashcraft, Memorial Chapel manager of University Unions and Student Activities, has been appointed district director (SE-1 District) of Mu Phi Epsilon International Music Fraternity. Chapters in this district include Radford University, UNC Greensboro, and UNC Charlotte.

The Biomedical Engineering Society (BMES) has presented its Distinguished Service Award to **Daniel Schneck**, retired professor of engineering science and mechanics.

The award is given periodically to recognize members who have made outstanding contributions to the society, and Schneck is only the fourth recipient since the award was established in 1992. Schneck was honored for his national leadership in the field of biomedical engineering and his service to the society as founding editor of the BMES Bulletin, BMES president in 1990, and chairman of the first BMES Annual Fall Meeting, which was held at Virginia Tech in 1990.

Eric P. Smith, director of the Statistical Consulting Center and professor of statistics, and **Geoff Vining**, professor and head of the statistics department, have been named statistical fellows by the American Statistical Association (ASA).

The award was presented at the association’s annual conference last August. It recognizes “members of the ASA who have established a reputation and have made outstanding contributions in some aspect of statistical work.” Candidates are evaluated on their publications, the position held by the candidate in the organization in which the individual is employed, activities in the association, membership attainments in other societies, and other professional activities.”

L. Leon Geyer, professor of agricultural law in the Department of Agriculture and Applied Economics, was installed as president of the American Agricultural Law Association at the association’s 22nd Annual Education Symposium in Colorado Springs in October. He presented a paper on “Duty to Turn in A Fellow Member of the Bar” and was a discussant of “Ten Ways That Using E-Mail Raises Ethics Issues Online.” **Eluned Jones**, professor of agricultural and applied economics gave an invited paper on “Entity Preservation and Passport Agricultural: EU v. USA,” and **Jesse Richardson**, assistant professor of urban affairs and planning, presented an invited paper on “Downzoning, Fairness and Farmland Protection”.

A paper co-authored by **Garth Wilkes**, university distinguished professor of chemical engineering (ChE), recently received two national awards. “Optical Haze Properties of Polyethylene Blown Films: Part 1 and 2” received the Best Paper Award during the Technical Association of the Pulp and Paper Industry Polymers Laminations and Coatings Conference in San Diego, California, in August. Part 1 of the paper, “Surface Versus Bulk Structural Considerations,” was selected by the Engineering Properties and Structure Division (EPSDIV) of the Society of Plastics Engineers for the 2001 Best Paper Award, which will be presented during the EPSDIV Annual Technical Conference 2002 in San Francisco. Among Wilkes’ collaborators in researching and writing the paper was Matthew Johnson, who received his Ph.D. in ChE at Virginia Tech

John M. Carroll, professor of computer science, education, and psychology at Virginia Tech, has published a book entitled *Making Use: Scenario-Based Design of Human-Computer Interactions*.

The book addresses the use of scenarios, described by Carroll as “concrete stories about use,” as a problem-solving technique in the design of computer systems and software. Scenarios are a key tool for understanding users’ real needs in their interactions with computers, as illustrated in the book through arguments supporting the overall approach and through various case studies.

John Cairns Jr., university distinguished professor emeritus of environmental biology, has been invited to attend the World Think Tank, an initiative to be held September 2002 in Brussels, to discuss issues facing the modern world.

The World Think Tank is an organized meeting of brain-

storming and debate with only 10 of the world’s most prominent experts in a particular field invited to participate. This distinguished group of professors, researchers, Nobel prize winners, biotechnologists, economists, demographers, climatologists, UN officials, and others will address topics such as climate change, water and air pollution, global warming, sustainable development, and the protection of ecosystems.

The ninth edition of the literary journal *The New River*, published through Virginia Tech, is on line featuring “Night, Water, Night” by **Ed Falco**, professor of English.

Falco is the author of a hypertext novel, *A Dream with Demons*, as well as a collection of hypertext poetry, *Sea Island*, both from Eastgate Systems. His books of fiction include two collections of short stories: *Acid* and *Plato at Scratch Daniel’s & Other Stories*. Falco teaches writing and literature and edits *The New River*.

Alan E. Bayer, professor of sociology and director of the Center for Survey Research, has been named as one of the co-authors of the 20th Century’s 100 most notable books on American higher education.

The book is *Human Resources and Higher Education*, published in 1970 by the Russell Sage Foundation.

Houston B. Couch, a plant pathologist specializing in turfgrass diseases for 50 years, has been selected to receive the Distinguished Service Award by the Golf Course Superintendents Association of America.

A member of the Department of Plant Pathology, Physiology and Weed Science since 1965, Couch is being recognized by the 22,000-member association as the “go-to” pathologist for the industry.

The national association is presenting the award at the its International Golf Course Conference and Show in Orlando, Fla. The award has been presented annually since 1932 to individuals who have made an outstanding, substantial, and enduring contribution to the advancement of the golf-course superintendent profession.

William Tranter, the Bradley professor of wireless communications in electrical and computer engineering and an associate director of the Mobile & Portable Radio Research Group, has been elected vice-president of technical activities by the Institute of Electrical and Electronics Engineers (IEEE) Communications Society. Tranter is an IEEE fellow and a recipient of the Donald McLellan Award for Meritorious Service, the IEEE Centennial Medal, and the IEEE Third Millennium Medal.

Center for Public Administration and Policy Professor **John Rohr** has been named the 2002 recipient of the Dwight Waldo Award, presented to persons who have made outstanding contributions to the professional literature of public administration over an extended career. To be eligible the nominee must have had at least one article published in *Public Administration Review* and a minimum of 25 years of active scholarship that has furthered the discipline of public administration. He will accept the award at the national conference of the American Society for Public Administration in Phoenix, Arizona, in March.

Architecture Professor **Rengin Holt** has recently had her work accepted in “Mini Print International *Cadaques*,” a one-year touring exhibition in Spain. The prints were exhibited last fall in a private exhibition entitled “*Konkret—Abstrkte Kunst Mono-Farbdrucke*” in Stuttgart, Germany.

Architecture professors **Pia Sarpaneva** and **Scott Poole** have been named co-chairs of the Association of Collegiate Schools of Architecture International conference which will be held in Helsinki in 2004.

Architecture Professor **Joseph Wang** presented a paper entitled “Episodes on Scenes: How Designers Identify and Use Them” at an international conference in Taipei sponsored by *Adademia Sinica*, the national research institute of Taiwan.

Urban Affairs and Planning Professor **Joseph L. Scarpaci** is lead author on a forthcoming, second edition, of *Havana: Two Faces of the Antillean Metropolis*, by the University of North Carolina Press. The literary magazine *Lingua Franca* named it “an outstanding urbanography” and one of the best books on contemporary Cuba. In March, 2002 he will lead the second annual alumni trip (Cuba’s Built Heritage, <http://www.caus.vt.edu/>) (See *ACHIEVERS* on 8)

Saraf's research on new sensing device shows promise

By Karen Gilbert

Research on a new sensing device able to simultaneously identify over 3,000 biological materials shows great promise, according to one of its developers, Ravi Saraf of the chemical engineering department. Saraf, who holds 27 U.S. patents, hopes such a device will have multiple military and industrial applications, especially as concerns continue over the threat of terrorist attacks.

A key advantage of this new sensor is its ability to detect a specific biological agent even if its trace amount is only one part per billion in a sample volume of air or water.

The new detector or biochip under development has an optical-based system. Its designers have increased the sensitivity of what the chip can "see" or sense, consequently improving its response time. Each pixel on the detector reads the mass and conformation of a different chemical. The new detector will more closely measure the actual level of each chemical in an affected area, which will aid in the design of the corresponding treatment for exposure.

An immediate application is in "remote medicine" such as a battlefield where medical personnel might not be readily available. As a portable unit, the detector and readout device allow sophisticated diagnosis in the field. Knowing quickly which chemical(s) a soldier was exposed to or what pathogens are present in body fluids leads to immediate treatment, possibly averting the full effects of the chemical damage. Saraf believes his device could be the basis for smaller lab instruments that would allow for the practice of medicine even while working at sea or in space when a quick diagnosis could save a life, as well as conserve critical work time.

The new detection device will also be able to monitor the environment—soil, water, and air—to identify the presence of pathogens.

Other applications include the new field of proteomics, the study of the formation of proteins in a biological system under a certain stimulation, as well as how proteins will act only in certain conformations. Saraf's new sensor, unlike earlier versions, will be able to detect the shape of the protein and the DNA sequence without any chemical tag.

This device could also fit into the idea of having an entire laboratory on a single microchip. As the major microelectronics manufacturers have sought other applications for their "silicon-chip" technology besides computers, the industry has focused on biotechnology, where the applications for silicon-chip technology to integrate multitudes of (biological) operations on a monolith are numerous. Lab instruments could be significantly reduced in size, making it easier for hospitals to do lab work on site. Sample sizes of bodily fluids needed could be greatly reduced. In some instances, such as crime investigation, a small hand-held polymerase chain reaction (PCR) device could duplicate the DNA present in a very small sample, such as one drop of blood, so that multiple tests can be performed on the sample, instead of only one or none. This capability could make a critical difference in solving and preventing crimes.

Saraf's sponsor for this research is Carilion Biomedical Institute of Roanoke. The institute is a partnership between Carilion Health System, the University of Virginia, and Virginia Tech.

Another benefit of Saraf's work will be in genotyping which will enhance personalized

medicine, said Sam English, manager of research projects at the institute. For example, a patient can be tested to see if the breast-cancer-susceptibility gene is present in her DNA sequence. If detected, a physician can then factor in the patient's genetic makeup for customized preventative care.

Carilion Biomedical Institute has been spon-

soring approximately \$1 million worth of projects in the Optical Sciences and Engineering Research Center (OSER) at Virginia Tech for the past three years, including Saraf's research. The center employs optics to provide new biological research tools for visualization, measurement, analysis and manipulation.

OBITUARY

David Carl Lotts, 50

David Carl Lotts, 50, director of publications and electronic communications in University Relations since 1999, died March 8 in a traffic accident.

Lotts started at Virginia Tech as editor of *Virginia Tech Magazine* in 1986 and from 1990-99 served as associate director for publications.

In his most recent position, Lotts directed a publications unit that produced all major university fundraising, marketing, and student-recruitment publications as well as an electronic-communications unit responsible for design and content of the university's home page and more than 30 other university web sites. He also conceived and launched the *Virginia Tech NetLetter*, a monthly e-mail newsletter to more than 40,000 alumni and friends.

"David's responsibilities and contributions to Tech—just a few being exhibitry, annual reports, course catalogs, recruitment literature, multiple university web sites, even the university telephone book—permeated more sectors of the university than most people realized," said Larry

Hincker, associate vice president of university relations.

As editor and executive editor of *Virginia Tech Magazine*, Lotts helped implement award-winning re-designs of the magazine, first when it was re-launched in 1989 as a 100,000-circulation publication and again in 1996. He also pushed successfully for the magazine to be distributed to all alumni rather than to donors only, with the goal of developing a closer relationship with the university's graduates.

Lotts was a 1974 graduate of Washington and Lee University. He spent his career as a journalist and professional communicator at newspapers in Virginia, Georgia, and North Carolina before coming to Virginia Tech. He will be remembered for his enthusiasm, integrity, and dedication to the university and his staff.

Memorial contributions can be made to the Virginia Tech General Scholarship Fund or Employee's Spouse and Dependent Scholarship Fund, Virginia Tech Foundation, Pack Building (0336), Blacksburg, Va. 24061.

ACHIEVERS

Continued from 1

CAUS/CAUSalumni/cuba.htm). Proceeds of the program revert to partial scholarships for students in the May program.

Urban Affairs and Planning Professor **John Browder** received a two-year grant from the Geography and Regional Division of the National Science Foundation to support his ongoing research on deforestation and regional development of the Brazilian Amazon. The research project is entitled "Patterns and Processes of Landscape Change in the Brazilian Amazon." The \$240,000 award was partly shared by remote sensing specialist **Randolph Wynne** of Virginia Tech. The research will conclude a 10-year longitudinal study of land use decisions by small farmers in the western Brazilian state of Rondonia, a major deforestation "hot-spot" in South America.

Architecture Professor **Gene Egger** was recently nominated to receive the new Patrick and Nancy Lathrop Professorship of Architecture. He has chaired the Foundation and Professional programs, and served for nine years as the college's assistant dean for academic affairs and undergraduate studies. He is project director for the International Architectural Educational Exchange.

Building construction professors **Ron Wakefield** and **Yvan Beliveau**, along with architecture professor **Michael O'Brien**, recently published "Industrializing the Residential Construction Site, Phase II, Information Mapping" for the U.S. Department of Housing and Urban Development. It is the available for download at the HUD web site at <http://www.huduser.org/publications/manufhsg/ircs2.html>.

Paul Knox, dean of the College of Architecture and Urban Studies, is co-author of a new textbook, "World Regions in Global Context" providing a body of knowledge about how natural, social, economic, political, and cultural phe-

nomena come together to produce 'world regions,' and to shed light on interdependencies that exist among places and regions.

Professor **Lee Skabelund** at the Community Design Assistance Center co-authored a chapter in the book: *Ecology and Design: Frameworks for Learning*, Bart Johnson & Kristina Hill, Editors, Island Press 2001. The chapter is entitled: "Building Ecological Understandings in Studio: A Repertoire for Developing A Well-Crafted Project." Additionally, he co-authored a paper on "Urban Ecological Restoration" for the American Society of Landscape Architects Annual Meeting publication.

Nurses **Virginia McCabe**, **Sharon Robinson**, and **Nancy Scagel** made a triage/nursing presentation at the Mid Atlantic College Health Association in Pittsburgh which highlighted the Schiffert Health Center's electronic medical record. They have since been invited to present at the American College Health Association, which will be held in Washington, D.C. in May.

The Schiffert Center is one of the few college health centers in the nation with a live

electronic medical record.

Patricia Hyer, associate provost, has been selected as state-wide coordinator of the Virginia Network of the American Council on Education Office of Women in Higher Education. The Virginia Network offers professional-development programs for women administrators and promotes the advancement of women in Virginia's public and private colleges and universities. Hyer will chair the Virginia Network executive board for a three-year period.

James Johnson and **Robert Smith** from the College of Natural Resources took part in the international Extension Working Party Symposium 2001 in Lorne, Victoria, in Australia last semester. Johnson, professor of forestry and associate dean of outreach in the college, spoke on establishing a graduate education program in Extension forestry.

The presentation was co-authored by **Franklin Bruce**, Extension specialist in program evaluation in the College of Agriculture and Life Sciences Department of Agriculture and Extension Education.

Smith, associate professor of forest products and Extension specialist in the college's

wood science and forest products department, presented a seminar about education and research as it pertains to the Center for Forest Products Marketing and Management that he directs.

Jennifer Corrigan MacDonald, student activities program coordinator for program advising and student entertainment with University Unions and Student Activities, was elected to the National Association for Campus Activities (NACA) South Region Cooperative Buyer 2002-2004.

The position is part of the South Regional Leadership Team.

Jud Flynn, executive chef for Residential and Dining Programs, will compete for a spot on the American Culinary Federation's USA Culinary Team which will compete at the 2004 International Culinary Olympics.

Seventy chefs from across the country submitted applications to compete for one of 10 spots on the team and only 40 were invited to tryout. Flynn will try out at the regional competition held at the Culinary Institute of America in Hyde Park.

Kimberly Goldman, a third-year student in the Virginia-Maryland Regional College of Veterinary Medicine, recently received the 2002 Western Veterinary Conference Student Scholarship Award.

One of only 27 students from around the nation selected to receive the honor, Goldman received a \$2,500 scholarship as well as a \$1,000 stipend to attend the 74th annual "Jack Mara Western Veterinary Conference in Las Vegas."

The conference provides over 1,100 hours of scientific programming in 42 subject areas of clinical and sub-clinical veterinary medicine, making it one of the world's largest veterinary conferences for professional veterinarians. During the conference, Goldman will be able to participate in programs and will be honored at a special awards reception.

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