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TODAY'S EDITION
*Special
Founders Day
Coverage*

Dekker to Receive University's Highest Honor

By Sookhan Ho

Henry J. Dekker needs no introduction on campus. The recipient of this year's Ruffner Medal, the university's highest honor for dedicated and distinguished service, has figured prominently in the leadership of a range of university institutions: the Board of Visitors, the Virginia Tech Foundation, the Campaign Steering Committee, the Pamplin Advisory Council, the Corps of Cadets Alumni and the German Club Alumni Foundation.

Dekker will receive his award at Founder's Day ceremonies from President Paul Torgersen. "Henry has given extraordinary service to Virginia Tech through a variety of advisory, volunteer, and action groups," Torgersen said. "Through his passionate commitment to our institution and his loyal and tireless support of its mission, Henry has demonstrated the very spirit and meaning of *Ut Prosim*."

Dekker, who grew up in Norfolk and Virginia Beach, began taking on leadership roles at Virginia Tech early. He was class president in each of his first three years and was elected president of the Corps in 1942-43. He was active in student government, Omicron Delta Kappa, and the German Club. After serving as an officer in the Pacific during World War II, Dekker returned to campus. Graduating in 1947, he went to work for the university. After a two-year stint as university treasurer, Dekker launched a 36-year career in the textile industry, primarily in New York City, but with extensive Asian and European business activity.

He was founder and president of the North American operations of French couturier Louis Feraud. He retired as vice chairman in 1991, and returned to Blacksburg.

Dekker is perhaps the Corps' most ardent supporter among alumni. He is widely credited with leading the effort to revitalize the Corps in recent years, an endeavor that included a \$10-million scholarship endowment and the successful creation of the Corps Center for Leader Development. He chairs the Virginia Tech Corps of Cadets Alumni Inc., a university-related corporation, and serves also on the Advisory Committee of the new university Center for Leadership Studies.



Dekker

Dekker served on the Board of Visitors from 1989 to 1997. He served as chair of the Finance and Audit Committee for six years, and as vice rector for five years. He was rector during his final year on the board. He is a director of the Virginia Tech Foundation and its executive committee, and is a senior benefactor of the foundation.

Dekker, who has made numerous gifts to the university, played multiple roles during the university's recent fund-raising campaign, which raised \$337 million. He served on the Campaign Steering Committee and was chair of the Corps of Cadets Campaign. He chairs the Pamplin Advisory Council's Fundraising Committee. Pamplin College Dean Richard E. Sorensen has said that he is particularly indebted to Dekker, who not only contributed \$100,000 in a deferred gift to create a scholarship, but also accompanied him and development director David Everett on various fundraising trips at his own expense, to help solicit contributions.

Dekker is an *Ut Prosim* senior benefactor, a member of the Legacy Society, and a Silver Hokie. He served as president and chair of the German Club Alumni Foundation and was a member of the Alumni Association Board. Outside Virginia Tech, he works to advance the cause of higher education through his membership in the Virginia Business Higher Education Council, a lobby group of prominent corporate leaders from around the state.

Dekker received the Alumni Distinguished Service Award in 1987 and the Pamplin College of Business Distinguished Alumnus Award in 1990.

The William H. Ruffner Medal was named for Virginia's first state superintendent of public instruction. As a member of the university's first Board of Visitors, Ruffner was instrumental in curriculum of the fledgling institution after conducting extensive reviews of Cornell University, MIT, and several prominent European universities.

shaping the character and

Alumni Distinguished Service Awards

Jones Epitomizes Life of Achievement

By Lynn Nystrom

"Mary Virginia Jones has demonstrated time and again her willingness to serve as a role model for women in the engineering profession. In 1998, the Society of Women Engineers awarded her the rank of fellow for her contributions to women in engineering. She is routinely selected as a spokesperson on propulsion systems, engineering education, and women in the technical workforce. She is truly one of the pioneers of women in this highly competitive, highly technical arena. Her life is full of "firsts," a true epitome of a lifetime of achievements," said F. William Stephenson, dean of the College of Engineering.

Jones, one of the first women to graduate with honors in engineering from Virginia Tech in 1962, will return to her alma mater on Founder's Day to receive the Alumni Distinguished Service Award.

"I hope that I will always be able to serve Virginia Tech. If Tech had not admitted women in engineering, I certainly would not have had the wonderful career that I have experienced. When I started engineering, Virginia Tech had the only College of Engineering in the state that would admit women. It was not until Title IX that the other engineering schools were forced to offer equal opportunities to women. I will always be grateful for the opportunity," Jones said.

Jones started working with Atlantic Research Corporation (ARC) of Gainesville as a structural engineer. Her resume attests to her rapid advancement in the company. She has spent the past 37 years, a true lifetime in terms of a career, dedicated to improving engineering in a defense-oriented industry. She has spent her professional career in a male-dominated field, and her contributions in the technical arena allowed her to move to management positions within

(See JONES on 10)



Jones

Lionberger Exemplifies Tech Experience

By Sandy Broughton

You might say Sam Lionberger has had the ultimate Virginia Tech experience. A graduate in Building Construction, Lionberger was president of the class of 1962, was on the Commandant's Staff in the Corps of Cadets, was a member of the Scabbard and Blade Society, and served as associate judge in the Cadet Honor Court. Now, as CEO of the thriving, family-owned Lionberger Construction of Roanoke, he continues his involvement with the university in a variety of ways.

For more than a decade he has been a member of the Advisory Council of the College of Architecture and Urban Studies. He served five years as an Alumni Board member, a term on the President's Council, was the alumni representative on the committee to develop the university plan, and supported the Virginia Tech Campaign

for Excellence as a local committee member. In 1997, Lionberger was inducted into the *Ut Prosim* Society. He is also a founding member of the Building Construction Advisory Board.

This year, the Board of Directors of the Virginia Tech Alumni Association honors Lionberger for his outstanding service and support on behalf of the university and the association. "Sam's commitment to the well-being of future generations of young people is truly exemplary," said Paul Knox, dean of the College of Architecture and Urban Studies. "He has been a great supporter of the building construction department, the college, and the university as a whole. Sam's standing in the business community and his commitment to Virginia Tech have resulted in enhanced learning opportunities for our students and increased interaction with the profession."

Most recently, Lionberger and his wife Rindy established the Samuel L. Jr. and Lorinda G.

(See LIONBERGER on 10)



Lionberger

ALUMNI AWARDS FOR RESEARCH EXCELLENCE

Richard Winett

By Susan Trulove

Richard Winett's research has changed the way people live and has saved lives. He has taught us how to prevent diseases and promote health.

Winett is receiving the Alumni Award for Research Excellence at Founders Day in recognition of his contributions to health psychology and the integration of intervention approaches based on social cognitive theory and public-health theories.

Winett is the author of more than 150 peer-reviewed publications. He has shown how a number of theoretically based strategies can be effectively used with large and diverse populations so that people adopt healthier lifestyles.

Since 1976, he has developed and field tested programs using films, videos, and computers, and Internet-based interventions to encourage people to eat right and exercise, and to protect themselves from AIDS and skin cancer. With his colleagues Eileen S. Anderson and Janet R. Wojcik, research scientists in the psychology department, he has produced or coproduced 19 videotape, multi-media, and web programs, such as "Eat4Life" and "Nutrition for a Lifetime System."

He has also developed "peer-mediated interventions," using popular peers to support, teach, and model safe behavior, with significant, positive ripple effects across communities.

Winett has received funding for 25 con-

secutive years from such agencies as the National Science Foundation (NSF), National Cancer Institute (NCI), and the National Institute of Mental Health. He is presently doing research with \$750,000 funding from the National Institute of Mental Health on "Community intervention to reduce AIDS risk behaviors," work on "Using network-based computers to promote healthy behaviors among adolescents in underserved rural areas, funded to \$242,000 by the Virginia Health Care Foundation, and a \$1.2-million project for the NCI on "Feedback-video systems for promoting nutritional purchases."

His research has been published in the top journals in psychology, public health, and medicine.

Winett has also earned fellow status in five divisions of the American Psychological Association—experimental analysis of behavior, community, population and environment, health psychology, and media. He is a fellow of the Society for Behavioral Medicine.

At Virginia Tech, Winett is director of



Winett

Neal Castagnoli Jr.

By Sally Harris

Neal Castagnoli Jr. has won the Alumni Award for Excellence in Research for his chemotoxicological studies on the molecular mechanisms of neurodegenerative processes.

Castagnoli came to Virginia Tech in 1988 as the Harvey W. Peters professor of chemistry and is an eminent scholar of the commonwealth of Virginia. He heads the Harvey W. Peters Center for the Study of Parkinson's Disease and other Diseases of the Nervous System. He has, according to chemistry department chair Larry T. Taylor, "a passion for research, a list of insightful publications, an enviable record of funding." He also is "a dedicated servant to his field of study," Taylor said.

Castagnoli, in pursuing "the boundaries between biology and chemistry," has "made seminal contributions to the field of neurotoxicology," Taylor said. Castagnoli's research focuses on the "molecular mechanisms by which specific chemicals cause toxic effects that ultimately lead to neuronal degenerative diseases such as Parkinson's disease."

"The results from these studies already have led to the identification of environmental and endogenous compounds with neurotoxic potential," Taylor said. "As these molecular mechanisms become better understood, it may be possible to design and develop therapeutic agents that will attenuate these degenerate processes and thereby protect individuals against age-related loss of central nervous system func-

tion."

In 1990, Castagnoli received the Jacob K. Javits Neurosciences Investigator Award for his contributions to neurotoxicology. The award is noteworthy, Taylor said, because it is rarely given to chemists, only 16 of 2,500 research proposals submitted that year received the award, and "the award was given for an unprecedented seven-year period."

Castagnoli collaborates with neuroscientists and physicians around the globe to provide a complete picture of neurotoxicity, Taylor said, adding that Castagnoli's current work on metabolites (HPTP) of haloperidol, a drug used in the treatment of schizophrenia, illustrates this point. Castagnoli and two colleagues are evaluating the "neuropathological outcomes of HPTP treatment in baboons. They use tomography to chart changes in brain structure and urinary analysis to identify metabolic markers." Castagnoli is also assessing haloperidol toxicity. "This holistic view of medicinal and chemical biology has been present in his work from the beginning of his independent research ca-

(See CASTAGNOLI on 12)



Castagnoli

ALUMNI AWARDS FOR EXCELLENCE IN EXTENSION

Robert Meadows

By Mary Ann H. Johnson

Robert Meadows, Virginia Cooperative Extension 4-H youth development specialist, received the Virginia Tech Alumni Association Extension Excellence Award.

Meadows was cited for his work with the Virginia 4-H Camping program. Because of his enthusiastic work, the Virginia program has been recognized as one of the top programs in the nation. All six 4-H educational centers have been accredited by the American Camping Association.

"Bob has inspired agents and volunteers to see 4-H camping as a legitimate educational strategy that realizes the lifeskill development of participants," said Dorothy M. Freeman, Extension specialist, in nominating Meadows for the award. "He has provided innovative efforts in staff development including a 4-H Camp Director Training Manual and the Virginia Guide for 4-H Camp Counselors' Training, both of which have been adopted by camping professionals in other states. He also was on the National Camping Task Force and helped develop the National Camping Institute."

"His research project to evaluate the effectiveness of the 4-H camping program studied parents' perceptions of their children's development and showed that almost 100 percent of the parents indicated they would send their children to 4-H camp again," said John Dooley, associate director for Virginia Cooperative Extension, 4-H Youth and Family and Consumer Sciences.

Meadows also was cited for his leadership of staff development noting his contributions

to in-service programs for training Extension agents in which he has received a average ranking of 4.47 on a 5 point-scale. He works with faculty members at Virginia State University to design programs for the 4-H Adult Volunteer Leaders Association and additionally he has been the chief architect of an expanded master volunteer program which equips key volunteers to become middle managers of certain components of the 4-H program.

He has been director of State 4-H Congress for the past two years, during which time the number of youth participating has increased, and he was instrumental in the resurgence of the Collegiate 4-H Club. He is adviser to the Virginia Chapter of 4-H All Stars.

Well known for his workshops on personality preference typing, he also continues to provide leadership to the Character Counts program.

A graduate of West Virginia University, he received his doctorate at Virginia Tech. He first joined Extension in 1985 as program director for Airfield 4-H Educational Center, Wakefield. He came to Blacksburg as a youth-development specialist in 1992.



Meadows

Gary P. Dingus

By Nancy Templeman

Gary P. Dingus' expertise and enthusiasm have served the people of far Southwest Virginia well for nearly 30 years. This year, his work is recognized with the Virginia Tech Alumni Association Extension Excellence Award at Founders Day.

Dingus is the unit coordinator for the Dickenson County Office of Virginia Cooperative Extension, and an Extension agent for agriculture and natural resources (ANR) with a specialty in crop and soil science. He also provides leadership for the pesticide applicator-training programming and to ANR programming in the counties of Russell and Buchanan.

Joseph R. Hunnings, the Southwest District director for Extension, says of Dingus, "I'm convinced it is the challenges that seem to be inherent in Appalachian communities that fuel his drive to fight for a better life for the citizens of Dickenson."

Because of the need for economic development in the Dickenson area, Dingus expanded the scope of his work. He always keeps in mind the mission of an Extension agent to determine the needs of the community and through education and facilitation, find solutions to those needs. In addition to a solid agriculture Extension program, Dingus has focused on many projects that would previously come under Extension's community resource development programs.

The projects Dingus helped bring to fruition in the area include establishing the county hospital and nursing home, developing the county industrial park, and bringing two industries and a state correctional facility to the county.

"All of this was accomplished with the direct input of Gary and the resources of Extension. I know of no other individual who has so

unselfishly and enthusiastically contributed his time, energy, and unique organizational and leadership abilities to further the health, safety, and welfare of the citizens of Dickenson County," said Jack Rose, former chairman of the Dickenson County Industrial Development Authority.

According to Hunnings, Dingus has a strong, open relationship with local government officials, and that under his leadership the county Extension Leadership Council is one of the strongest in the southwest district. He makes people of all income, education, and cultural backgrounds believe they have valuable skills, education, and network assets that can further his cause.

Fellow workers also praise Dingus' work. One noted, "When others have given up on a project or are unwilling to believe a project would be possible, Gary has pushed, prodded, and led others to continue."

The citation for his award explains Dingus' accomplishments this way, "Gary Dingus is an outstanding Extension educator and visionary community leader. Through his many efforts, the citizens of Dickenson County enjoy more prosperous lives, and Virginia Cooperative Extension is a stronger organization."

Dingus received his bachelor's degree from the University of Kentucky and continued his graduate work at Virginia Tech.



Dingus

ALUMNI AWARD FOR EXCELLENCE
IN INTERNATIONAL PROGRAMS

John A. Ballweg



Ballweg

By Catherine Doss

John A. Ballweg, professor of sociology in the College of Arts and Sciences, has been named the 1999 recipient of the Alumni Award for Excellence in International Programs. Ballweg has pursued a distinguished career spanning 32 years at Virginia Tech and, during that time, has built an outstanding record of teaching, research, and service focusing on international research in childhood nutrition, population control, drug and alcohol studies, and the effects of environmental change on social conditions.

"John has done yeoman service for the most distinguished agencies in the international area," said David Britt, executive director of the Reynolds Homestead. "He has edited the top journal in his field of endeavor, and he has brokered exchanges that involve Virginia Tech faculty members in international activity while simultaneously enriching the diversity of Blacksburg by bringing students from around the world to our campus. His record of achievement serves as a model for any scholar who would both honor his academic discipline and serve the world community."

Ballweg has directed 34 research projects in more than a dozen countries on four continents with funding provided by the Rockefeller

and Ford Foundations, the Department of Defense, the Christian Children's Fund, and the United States Information Agency. In the course of this activity, he has worked collaboratively with young international scholars, producing joint articles that laid the foundation for productive social change in their countries.

"The world is so small now," Ballweg said. "Our students need to be fully trained in global affairs. I'm so pleased to see the international components of our faculty research filtering down to students in the classroom."

Ballweg's publications include many entries that address the application of sociological concepts and/or empirical analyses in international settings. This orientation holds true for his research projects, the results of which have made him a frequent contributor to international professional meetings and a regular consultant to foreign governments on important policy matters. Most recently, he has served on a U.S. Embassy project in the Philippines promoting American contributions to that country's education and government.

Long before it became popular to internationalize the curriculum, Ballweg included significant international components in his classes. He assumed the mission of identifying and attracting bright international students to Virginia Tech and of serving as their mentors.

"I'm very honored to have been chosen for this award," Ballweg said. "If it weren't for the personal satisfaction I gain from my international endeavors, I'd be retired by now!"

ALUMNI ADVISING AWARD

David J. Parrish



Parrish

By Stewart MacInnis

Ten years ago the Department of Crop and Soil Environmental Sciences had just 37 undergraduates on its rolls. Today, it has nearly 500.

David J. Parrish is credited with being the driving force behind that turn-around. He helped establish a bachelor's program in environmental sciences, he was largely responsible for setting up the department's student administrative center, and he has helped many students on an individual basis.

Those are also items cited in his award of the Virginia Tech Alumni Award for Undergraduate Advising.

"He has been visionary in the evolution of the department," said former Department Head Robert Q. Cannell in a letter supporting Parrish's nomination. Cannell is currently associate dean for research for the College of Agriculture and Life Sciences and director of the Virginia Agricultural Experiment Station.

As the department's coordinating counselor and scheduler of its undergraduate programs, Cannell said Parrish shouldered major responsibility for undergraduate advising as the enrollment burgeoned.

"He worked tirelessly to handle this responsibility," Cannell said. "He has an open-door policy, without office hours, so students can readily meet him."

Parrish was one of three professors in the department spearheading the creation of the environmental sciences major, which enrolled its first students in 1992.

The heavily science-oriented program is centered in CSES, but departments throughout the university give it a broad and well-rounded nature. The major has proven extremely popular among students, with more than two-thirds of the department's undergraduates currently en-

rolled in it.

Parrish established the student advising center to give students a single place to go where they can take care of administrative matters concerning classes.

"This center offers a wide range of student services, and it took a significant amount of pressure off faculty members in the institutional and red-tape areas of advising," said James R. McKenna, professor in the department and a coordinating counselor. "This innovation significantly improved our departmental advising and maintained strong faculty support for advising."

Parrish often spends so much time with students during work hours that he spends evenings and weekends catching up on his other duties, McKenna said. John R. Hall III, department head, said the time he spends with students pays off.

"He is extremely compassionate and giving in his interaction with students," Hall said. "I get more student and parent compliments for him than for any other faculty members in the department."

Parrish earned his bachelor's degree at East Tennessee University, his master's at Wake Forest University, and his doctorate from Cornell University. He was a lecturer at Cornell and a research associate at the University of Nebraska before joining the Virginia Tech faculty in 1977.

SPORN AWARDS

Charles E. Frazier

By Lynn M. Davis

Aptly named for his chosen field of wood science and forest products, Charles E. "Chip" Frazier is much more to his students than just a teacher of a very hard subject — the dreaded organic chemistry, a subject sometimes called "the most difficult introductory college course."

Because he painstakingly tries to present the material in such a way that each of his students can learn it and because he lets his students know he "genuinely cares about them," the associate professor in the College of Forestry and Wildlife Resources has earned the 1999 University Sporn Award for Excellence in Teaching Introductory Subjects.

Frazier has voluntarily taught CHEM 2514, Survey of Organic Chemistry, campus wide for the past three years. It is a subject required for majors in fisheries and wildlife sciences and in six other disciplines from five other colleges.

"Dedicated, talented, remarkably organized, versatile, always available, honest, and humble," were the virtues ascribed to Frazier by his students. Without exception, his students know they "come first in his busy list of daily priorities." He always makes time for them when they come to him for further help. He wants them all to succeed, to learn the subject.

Students praise his ability to apply science to everyday life. "His enthusiasm is infectious," they said in their high evaluation ratings. Said one student, "Dr. Frazier does more than is expected to make sure students are

getting it. When I was having a really hard time, he counseled me and spent time going over my questions, delaying an out-of-town departure he had."

Another student who appreciated the extra efforts of her organic-chemistry professor took time to write the department head: "Dr. Frazier worked hard to help us overcome our fears and anxiety and still give us a challenging course. He is a role model for teachers."

In addition to organic chemistry, Frazier teaches upper-level courses in wood science. He holds a B.S. from Virginia Tech in forest products, an M.S. from the University of Washington in forest resource science, and a Ph.D. from Virginia Tech in wood science.

His research interests lie in synthetic and physical chemistry of wood adhesion and development of novel wood adhesives and wood-based composites. He is a member of the Forest Products Society, Society of Wood Science and Technology, American Chemical Society, and the Adhesion Society.



Frazier

Roger Chang

By Liz Crumbley

When Ed Henneke, head of the department of engineering science and mechanics (ESM), first asked his teaching assistant Roger Chang to instruct some of the department's undergraduate courses, the Taiwan native hesitated. "As an international student, I was reluctant," Chang remembered. "But I tried it and realized that teaching is something I love to do."

Chang has performed so well teaching ESM's undergraduate courses in statics and mechanics of deformable bodies that he was selected by the General Assembly of the Student Engineers' Council to receive the College of Engineering Sporn Award for excellence in undergraduate instruction.

Henneke encouraged Chang to become an instructor in 1995 because "he was one of the most outstanding teaching assistants I've ever had. Even in his first semester of teaching, the students reacted positively to him. He met every expectation I had for him."

After earning his B.S. in civil engineering at the National Taiwan University in 1985, Chang came to Virginia Tech and began graduate study in the same field. He chose Virginia Tech, he said, because the university has an excellent civil-engineering program. "And, knowing something about earthquakes," he remarked, smiling, "I didn't want to live on the West Coast."

In 1989, Chang switched his studies to ESM, where he has been conducting research in the dynamic response of structures to earthquakes. Working with Professor Mahendra Singh, Chang is trying to improve the design equations in current building codes so that equipment and secondary structures can be built to more effectively withstand earthquakes.

In 1997 and 1998, Chang received the Manuel Stein Endowed Fellowship, a grant presented by ESM in memory of a former professor to graduate students who have excelled in teaching and research.

Jennifer Amaral, a civil-engineering student who has taken Chang's ESM classes, described him as "a teacher who exhibits an unsurpassed respect and genuine concern for his students. He works tirelessly to help students not only succeed, but understand what they are doing."

If Ed Henneke hadn't given him the opportunity to try teaching, Chang remarked, he would probably have gone to work in the private sector. "I'm lucky to be a teacher," said Chang, who hopes to complete his Ph.D. in 2000 and continue teaching at Virginia Tech or another university. "I especially enjoy it when students come to class not knowing anything about the subject and at the end of the semester they are confident they can solve problems using what they've learned," he said.

"I put myself in the students' shoes," he said when asked about his approach to teaching. "I think about how I would want a teacher to explain the material to me. I very much want my students to do well and really understand the material. I'm especially proud to receive the Sporn Award as an international instructor," Chang said.



Chang

WINE AWARDS

S. Dru Forrester

By Jeffrey S. Douglas
S. Dru Forrester, recently appointed part-time director of student affairs in the VMRCVM, will also be honored with the W.E. Wine Award for Excellence in Teaching at Founders Day.

Forrester carries a substantial teaching load in the professional curriculum, is responsible for training post-graduate interns and residents, treats patients as an board-certified internist in the Veterinary Teaching Hospital, and manages the unpredictable complexities of student affairs for the college.

Forrester manages to keep it all in balance by keeping a firm gaze on the reason she's in academia: the opportunity to teach.

"Nothing is more exciting to me than walking into a classroom full of students and talking with them for an hour," said Forrester, who joined the college faculty in 1990, the same year she earned diplomate status in the American College of Veterinary Internal Medicine.

Forrester's core instructional goal is to help her students sharpen their problem-solving skills by teaching them to apply knowledge appropriately. She invigorates lectures with case examples from her experiences as a clinician, and she takes full advantage of faculty-enrichment programs such as the university's Center for Excellence in Undergraduate Teaching.

Student and peer evaluations of her teaching are off the charts, including a 5.9 out of 6 for a class on Small Animal Problem-Solving, and the highest-ever score recorded by the college's Departmental Peer-Evaluation of Teaching Committee.

Since 1992, Forrester has received many commendations for teaching excellence, including the Carl J. Norden Distinguished Teaching Award, two Creativity Awards for Innovative Teaching, a College Teaching Award and a Virginia Tech Certificate of Teaching Excellence.

In addition, she was honored with Teaching of the Year Awards by the classes of 1993, 1994, 1997, 1998 and 1999, and invited to deliver the college's Commencement Address by the Class of 1996.

"It's a tremendous honor to be recognized with a Wine Award," Forrester said, "Especially when you consider the" (See FORRESTER on 12)



Forrester

Scott Geller

By Sally Harris
Scott Geller's caring, dedication, talent, and energy have helped him earn just about every teaching award offered at Virginia Tech, including, this year, the Wine Award for Teaching Excellence.

Geller has taught at Virginia Tech for 30 years, receives extraordinarily high evaluations from students even in classes with 500 students, and "teaches from the heart," as one student wrote. He also involves both undergraduate and graduate students in his research.

Geller has published 141 research articles and 15 book chapters with students as co-authors. Of his 827 professional presentations, 26 percent have student co-authors. "The inclusion of students in the research process is a time-consuming, but unquestionably important part of a university education—allowing students to see the implication of their knowledge and ideas," said Roseanne Foti, associate professor of psychology.

Kent E. Glindemann has worked with Geller for 12 years, as both masters' and Ph.D. student and now as research associate. "I have learned how to be a professional under his guidance," Glindemann said. "He has taught me how to be a psychologist, a scientist, a teacher, and a leader. He has helped me reach my potential. I have witnessed firsthand the profound impact he has had on numerous students' lives.... This year alone over 50 undergraduate students and six graduate students will get to work closely with him in the Center for Applied Behavior Systems (of which he is the founder and director), learning how to develop, implement, and disseminate important scientific research."

Another research associate wrote that "Dr. Geller has devoted his life to improving the quality of life in the surrounding community through behavior-based safety research. He has researched and designed interventions concerning seat-belt use, pedestrian safety, industry safety, and has been one of the principal researchers in the effort to promote responsible alcohol consumption among college students."

Geller is a pioneer in the application of behavioral science to solve safety, health, and environmental-protection problems in corporate and community settings. He believes that "involving" (See GELLER on 12)



Geller

David Smith

By Lynn M. Davis
Students love him, faculty members respect him, and countless colleagues and parents have appreciated him—David W. Smith, a faculty member in the Department of Forestry for 27 years. For his service to others and the university, Smith will receive a Wine Achievement Award at Founders Day.

Smith provided leadership for the formation of the College of Forestry and Wildlife Resources in 1991-92. From 1992-1998 he was associate dean for academic programs in the College of Forestry and Wildlife Resources, while maintaining a full teaching and advising load.

He has averaged 21 undergraduate advisees per year and served as major advisor or co-advisor for 22 M.S. candidates, five M.F. candidates, and six Ph.D. candidates. Alumni frequently comment about the positive influence his classes had on their professional development. Students say his relaxed lecture style makes for a comfortable learning environment and that he engages them early in class with an interesting anecdote about trees and forests.

Smith has served in virtually every teaching-related capacity within the university. His basic philosophy is clear and concise: "the student comes first." He has taught more than 5,500 students and received a certificate of Teaching Excellence in 1981, the College Outstanding Faculty Award in 1983, 1985, 1987 and 1996.

The Society of American Foresters bestowed on him the Carl Alwin Schenck Award for "excellence in the field of forestry education and devotion to the art of teaching. The acknowledged national leader in forestry education has taught 13 different courses, 10 of which were undergraduate and three graduate." Dr. Smith has made unparalleled contributions to the teaching mission of this university," said forestry Department Head Harold Burkhardt.

"His service has been stellar in quality and sustained over a long time period," Burkhardt said. In addition to his full teaching load, Smith has served on nearly all major departmental, college, and university student-related committees. He has also authored or co-authored 35 technically reviewed papers, three book chapters, and more than 40 other publications.

(See DAVID SMITH on 12)



Smith

ALUMNI AWARDS FOR TEACHING EXCELLENCE

Bonnie J. Smith



Smith

By Cindy Harris,
public-relations
intern

Most people will probably agree that excellent teachers possess vast knowledge of the subject matter, an effective and interesting way of communicating that information, and a

passion and love for both teaching and for students.

Because Bonnie J. Smith, an assistant professor in the Virginia-Maryland Regional College of Veterinary Medicine's Department of Biomedical Sciences and Pathobiology, embraces all of these qualities and more, she has been selected to receive an Alumni Award for Teaching Excellence at Founder's Day.

Smith has earned four undergraduate and advanced degrees from Ohio State University. After majoring in zoology in undergraduate and graduate school, she taught high-school biology courses for one year and lectured for one year in the undergraduate biology program at Ohio State. She then earned a DVM degree cum laude from that university's College of

veterinary medicine and a Ph.D. in veterinary anatomy.

She arrived at the VMRCVM in August 1991 as a part-time assistant professor, and in January 1994, she was appointed to a tenure-track assistant professorship. She currently teaches three courses: Gross Anatomy, Descriptive Embryology, and Functional Morphology of Reptiles and Birds.

Another equally important quality of teaching excellence is the ability to effectively communicate the subject matter to the students. In that area, Smith has received nine teaching awards, including two Merck Foundation AGVET Awards for Creativity in Teaching, the Carl J. Norden Distinguished Teaching Award, and many other honors.

"Dr. Smith is a fantastic teacher," wrote one student during an evaluation. "She not only makes every topic that she teaches interesting, she makes every section learnable. She meticulously organizes and prioritizes the information so that the student learns the most important information first and can then delve into deeper and deeper layers."

Her students admire and appreciate her teaching style, and that appreciation is shared by her colleagues. "Dr. Smith is a dynamic, enthusiastic teacher who presents well-

(See BONNIE J. SMITH on 12)

J. Reese Voshell Jr.

By Stewart MacInnis

Students are the reason professors teach, and J. Reese Voshell Jr. thinks professors should show them respect by centering their efforts around them.

That attitude earned Voshell, a professor of entomology, the Alumni Award for Excellence in Teaching.

"Dr. Voshell has an extremely fine-tuned, interesting and humorous multi-media lecture," said Patty Kitchin, visiting assistant professor in the Pamplin College of Business who took one of his courses last year. "He has spent a great deal of time making his lectures student-friendly, yet efficient. He genuinely wants his students to do well. He is certainly no push-over, and his exams are extremely challenging, but he provides students with every tool they need to succeed."

Many students cited Voshell's approachability, his interest in them as individuals, his innovative teaching techniques, and his mastery of his subject.

Timothy P. Mack, head of the department of entomology, said Voshell's classroom innovations and his enthusiastic teaching style are impressive. Voshell uses computer technology in many of his classroom presentations and he uses web pages to allow students to access materials at any time.

"My guess is that he has spent more than

20 hours preparing each presentation," Mack said. "This presentation time shows, as his presentations are as good as any I have ever seen."

Voshell's enthusiasm in stimulating active learning has led Voshell to add more problem-based activities to his courses, Mack said. He thoroughly prepares himself so he can help the students draw the proper lessons from their activities.

Voshell said the students deserve enthusiasm from their professors.

"I am not an extroverted type of person," he said, "but I try to demonstrate enthusiasm in my own ways: preparedness, organization, rigorous course content, humor, friendliness, answering questions, meeting individually, and overall attitude. Whenever I interact with students in any capacity, I strive to make it clear to them that their education is important, my courses and my discipline are important, and there is nothing else I would rather be doing."

(See VOSHELL on 12)



Voshell

GRADUATE STUDENT SERVICE AWARD



Brenden

Travis Brenden

By Julie Kane

Travis Brenden, a graduate student in the Department of Fisheries and Wildlife, has won the Graduate Student Service Award for his outreach activities in the New River Valley and Roanoke. During the 1997-1998 school year, Brenden served as chair of the Education and Outreach Committee of the Virginia Tech Chapter of the American Fisheries Society, the professional society for fisheries scientists. To promote the educational development and advancement of all branches of fisheries science, Brenden placed an emphasis on outreach, primarily on the introduction of aquatic-science management to children in southwest Virginia. He led activities at several area schools, including Linkous Elementary, Blacksburg Middle School, Blacksburg High School, and Richlands Middle School.

Brenden was also active in area communities. In September 1997, he created a booth for the Salem Fair. The display on Virginia's non-game fish and invertebrate species was so popular that it was also shown at fairs at Cedar Bluff and Richlands.

Brenden was involved in many activities to educate students in the New River Valley area. For several months in 1997 and 1998, he and other volunteers spent time with children at Blacksburg Middle School dissecting fish and

explaining fish physiology.

Brenden explained, "No matter how many times we helped out, the dissections were never routine. Some kids could barely contain their excitement when dissecting a fish while others could barely keep down their lunch."

According to Posey Jones, an agriscience teacher at Blacksburg Middle School, "My students always looked forward to Brenden's visits. His expertise in dissecting fish was so impressive that they were eager to listen and follow the steps of the procedure." The popularity of the aquaculture module grew, and Blacksburg Middle School Agriculture Department was chosen the Outstanding Agriculture Program in Virginia for the 1997-1998 school year.

In April 1998, Brenden organized the Giles County annual 4-H Day, where students and parents learned about natural resources and bio-diversity. He conducted the behind the scenes efforts to make the event a success. He reserved the site, organized volunteers, prepared the site, and coordinated the arrival and departure of students. This event was highlighted in the 1997-1998 annual report of the *American Fisheries Society*. Brenden's activities to promote fisheries education and outreach were also described in the *American Fisheries Society's* Southern Division newsletter.

Brenden's efforts have brought regional and national recognition to the Virginia Tech AFS Chapter and has helped the department meet its mission for community outreach to the citizens of Virginia.

GRADUATE TEACHING ASSISTANT EXCELLENCE AWARD



Cawley

Jon Cawley

By Julie Kane

A common thread flows through the many positive comments made by the professors and students know Jon Cawley. Simply put, the consensus is that Cawley is one of the most outstanding teachers they have ever encountered. For his efforts, he will receive the Graduate Teaching Assistant Excellence Award at Founders Day.

Cawley began his career at Virginia Tech in the Department of Geological Science, where he finished a master's and was recognized twice with that department's prestigious Tillman Teaching Award. He was also nominated for geological science's university-level Graduate Teaching Award. He then began a Ph.D. in biology, continuing a solid performance in teaching.

Cawley's tenure as a graduate teaching assistant is multi-dimensional. He has contributed to course development, GTA training, undergraduate student research, mentoring, and outreach. He was quoted on educational issues on National Public Radio's "All Things Considered." His organization skills and interest in the common good of people were demonstrated when he recruited the Virginia Tech Scuba Club to remove 100 pounds of trash from the bottom of Mountain Lake. This event was covered by local Channel 10 News.

Cawley's professors call his knowledge and experience as a teacher extensive. As a GTA, he taught eight courses, some at the senior level. He conducted special classes in interactive teaching techniques. He was also selected as one of six GTA's to assist in a pilot project for writing for intensive biology majors. His presentation "GTA Mentoring" in

1997 was so successful it was repeated in 1998. His seminar "Geological History of the Appalachians" presented at the UVA Biological Station was also delivered at several universities.

Cawley is described as an extremely creative teacher who always seems to know the best media for different subject matter. He has perfected a series of observation and interpretation exercises to help students understand information. He enhances his lectures with video, CD-Rom, Powerpoint and video-microscope. He also provides e-mail programs for student's review.

To make subject matter more meaningful, Cawley relates it to everyday life. He developed one lab on living fossils on campus. The course involved taking students on walks to see the various trees on campus which were present in the age of dinosaurs.

In his teaching style, Cawley creates an open atmosphere for learning and goes out of his way to involve every student in class. Evaluations of 3.8-3.9 are common even though Cawley expects a lot from his students.

Generosity has been described as one of Cawley's finest qualities as a teacher. Not only does he share his knowledge and experience, he develops resources and develops teaching aids to make his lectures and labs more complete.

PRESIDENT'S AWARDS FOR EXCELLENCE

Diane Patty

By Liz Crumbley

"Diane was the executive secretary when I arrived here in 1983," said chemical engineering (ChE) Department Head William Conger in nominating Diane Patty for the President's Award for Excellence. "Diane had a handle on what had to be done and, during a period of a little over two years when there was no regular department head, she essentially held the operation of the departmental office together."

When the assistant department head retired in 1988, Conger said, he and the ChE faculty decided not to replace him but to give many of the position's responsibilities—including helping to recruit students and monitoring the academic progress of undergraduates—to Patty.

After 18 years as executive secretary, Patty officially assumed the job of an academic advisor in 1998 as the department's enrollment-services specialist.

"Diane Patty is one of those rare individuals who is truly concerned about student welfare and academic progress, yet tempers it with a very practical attitude," said Bevelee Watford, the College of Engineering's associate dean for academic affairs. "She is willing to go the extra mile for students, but also expects them to do their part—and is very up front about it. I have watched her both chastise and encourage students, almost with the same breath, and then watched as the students extended their everlasting gratitude."

Andrew Rose, a 1997 ChE graduate and now a facilities engineer at Shell Deepwater Development Systems Inc. in New Orleans,

said that, under Diane's charge, students "were never in doubt what classes to take or left in confusion on an academic requirement.... Never intruding but always concerned, she checked on each of us in due turn."

Rose said Patty, working in tandem with University Career Services, has helped many students find jobs. She also works closely with the student chapter of the American Institute of Chemical Engineers (AIChE). "Many of AIChE's successful activities were Diane's brainchildren," said Rose, who was president of the Virginia Tech chapter his senior year.

In addition to directing the department's office and shepherding undergraduates, Patty always has taken on other challenges, such as working to establish the College Association for Staff in Engineering, serving as a member of the university's Staff Senate, and coordinating the college-wide reception held each year after graduation for all engineering students and their families. During the past two years, Patty has helped coordinate the ChE department's revision of its undergraduate curriculum and graduation requirements. In 1996, she received the College of Engineering Exemplary Employee Award.



Patty

Linda Smith

By Netta Smith-Benton

Whatever the problem or the need, Linda Smith's co-workers know that she is always ready to step in to lend a hand. As fiscal technician for the college farm, Smith is in charge of processing all paperwork for the farm, including paying bills, requisition handling, wage time records, and all personnel forms. In addition, she keeps records for farm projects. But the colleagues and supervisor who nominated her for one of the President's Awards for Excellence praise her for doing far more than her job description requires.

Dwight Paulette, college farm coordinator, says that during her five years at the farm, Smith has voluntarily picked apples and other research crops, transplanted vegetables used for teaching and research, mowed the office yard, weeded and watered flower beds, and cleaned the office building. She has performed these duties outside of normal work hours so that she doesn't get behind on her regular work.

Paulette adds that Smith "is very instrumental to the functioning of the college farm. She handles her duties with pride, and interacts with and accommodates classified staff and faculty members in numerous departments, and their undergraduates. She treats everyone with dignity as she builds them up and encourages them. Her actions are a positive influence on morale."

In a letter supporting Smith's nomination Jerry Williams, associate professor of horticulture, said that she "has an outstanding personality, and it is always a delight and pleasure to be in her company."

Jeffrey Mitchell, programmer in the

College of Agriculture and Life Sciences, works with Smith on computer malfunctions and software updates. He says that "she is able to grasp new concepts quickly and, once learned, they never have to be repeated." She also "takes what she has learned and uses it to solve computer problems for others" that would normally require a visit from Mitchell.

Smith is known for taking charge of a situation when necessary. A few months ago, when Paulette was out of town, a truck driver came from Vermont to pick up a load of federal excess property. As Paulette recalls, "He was not expected on that particular day. He got lost in Blacksburg and the situation was magnified because he spoke almost no English." Smith, who was scheduled to take annual leave starting at mid-morning, sent someone to lead the driver to the farm and had the crew get equipment ready for loading. She didn't leave until she was sure everything was under control.

Paulette also praises Smith for the way she shows her appreciation of her co-workers. She often purchases doughnuts for the crew, and each year at Christmas time and during the summer, she voluntarily prepares a home-cooked meal for the farm's 20 staff members.



Smith

PRESIDENT'S AWARDS FOR EXCELLENCE

Peggy Arnold

By *Charlie Stott*

"Enthusiasm, creativity, and motivation to excel" are adjectives used to describe Peggy Arnold, a President's Award for Excellence recipient.

A fiscal technician in the Department of Biochemistry for 18 of her 20 years at Virginia Tech, Arnold's efforts have improved fiscal operations across the university. She has provided "leadership and distinguished service" on many committees, such as the adoption and use of corporate credit cards, redesign of the speed purchase order, redesign of the requisition form, sponsored-program operations, automatic budget reallocation rules and the FRS system.

"Ms. Arnold openly appreciates and values the talents and abilities of her colleagues and those she serves. In return, Ms. Arnold now helps to educate the university community, with the support of other fiscal technicians," said E.M. Gregory, associate professor of biochemistry.

In 1988 when FRS was the new accounting system on campus, she was asked to represent fiscal assistants and bookkeepers. Arnold assembled a few friends, a small unofficial lunch group to help her answer the many questions that came up in the implementation process. The small group started by Arnold's "desire to serve Virginia Tech" is now 10 years old and has more than 120 members as friends brought friends to the unofficial lunch meetings, said Rhoda Myers of the University Controller's Office.

The "Fiscal Bunch for Lunch," although receiving no official recognition, is seen as a vehicle for professional development, a way of sharing ideas, and a forum for proposed changes in procedures. Arnold is still active with the group but now functions more as an advisor to new and younger leaders so that the group maintains continuity.

Arnold provides excellent guidance for faculty members at all stages of a fiscal transaction. She often seeks out faculty members and works with them to determine strategies to get maximum use of funds. She also has been recognized as an exceptional supervisor and educator for her assistants and ensures that clerical staff members know how to process fiscal transactions efficiently and correctly.

Gregory said that Arnold "continues to challenge everyone to do their best, to solve problems creatively, and to persevere



Arnold

(See *ARNOLD* on 12)

John C. Chandler

By *Charlie Stott*

Rarely does a student graduate from food science and technology without having had personal instruction from John C. Chandler. The appreciation shows in that when they return as alumni, he is usually one of the first they seek and visit.

For his dedication to the students, and the same devotion to the department and university, Chandler has been selected as a 1999 winner of the President's Award for Excellence.

His dedication to perfection and ability to assume responsibility has made a substantial difference in the department," said Cameron Hackney, head of the food-science department. "John does not only perform assigned tasks willingly and punctually, but always strives to find the most cost-effective solution."

A laboratory technician for his 23 years at Virginia Tech, Chandler's major responsibility is managing the department's food-processing plant, which he does extremely well. "However, what makes his job performance outstanding is his willingness to accommodate the variety of extra duties which inevitably occur," said Joe Marcy, associate professor in food science. "John has been a valuable addition to our teaching program with personal instruction to the undergraduate and graduate students on the use and operation of food-processing equipment."

Chandler also has helped teach Virginia Cooperative Extension short courses and has produced a video tape on can seaming that is distributed nationally by the National Fisheries Institute. He is recognized by the U.S. Food and Drug Administration to supervise commercial thermal-processing operations.

Although not a job requirement, Chandler also monitors the food-science building on work days and weekends for water, refrigeration, electrical and security problems. "His quick assessment of situations and prompt action prevents equipment downtime and loss of research projects, and saves the department money," Hackney said.

"It is difficult to place a dollar value on an employee's contribution when important research projects are saved [from] unexpected disaster."



Chandler

(See *CHANDLER* on 12)

Stephen W. Hiner

By *Charlie Stott*

Everyone, from a U.S. Senator to students, has praise for Stephen W. Hiner, who is a 1999 President's Award for Excellence winner.

Hiner, a laboratory specialist in entomology, "represents the best that our university has to offer," said Timothy Mack, head of the entomology department. "In short, he is a walking role model for younger staff members to emulate."

His "official" job description involves research duties, such as field work to collect aquatic insect samples and identifying the organisms. He has conducted this work "flawlessly, even under the most trying, complicated circumstances that can come up," said J. Reese Voshell, entomology professor and Hiner's supervisor. Hiner has made presentations at professional scientific meetings, prepared reports for outside funding agencies and been co-author of a book chapter.

After first noticing him in an aquatic entomology class when Hiner was a student in fisheries and wildlife sciences, Voshell hired him, after graduation, as a temporary hourly-wage technician. "I quickly recognized that this young man's enthusiasm was something unique, and it was essential to retain him as long as possible."

Now, 16 years later, Hiner's "enthusiasm for his work and his dedication to Virginia Tech have not waned.... I have the utmost regard for his many talents and his willingness to share those talents within the Virginia Tech community and far beyond the campus."

Hiner serves as an voluntary, unofficial teaching assistant for two aquatic-entomology courses. Mack said that Hiner's teaching evaluations are "always glowing, (a 3.9 out of 4.0 last spring semester) because he is interesting, articulate, genuinely funny, and very knowledgeable." Students often evaluated Hiner as "the best TA" they have had at Virginia Tech.

Hiner is such a good teacher that Mack invites him to be a guest speaker in the large Insects and Human Society class.

Voshell notes that Hiner has become "recognized independently for his expertise." Graduate students from other departments consult with him to get help, and "recently, professors



Hiner

(See *HINER* on 12)

MAN AND WOMAN OF THE YEAR

Edward Maggio

By *Heather McElrath*

Maggio

Cadet Edward Maggio's experiences at Virginia Tech transformed this self-described shy guy into the 1998-99 Man of the Year. Maggio, a history and political science major with aspirations to study

law, joined the Corps of Cadets his freshman year and found a new sense of accomplishment and direction.

"Joining the Corps of Cadets became one of the best decisions in my life, for in the hardship of learning discipline I found new ways of life. I got a chance to contribute to the university, from firing a cannon at football games to winning drill competitions with the Gregory Guard Unit," Maggio said about his years at Tech. "Cadet life...showed me that it is best in life to become part of something and make things happen."

Maggio, who is the Corps' executive officer and second in command, played an integral part in increasing its involvement with the university

and the Greek system. However, his involvement at Tech didn't stop there. He is a member of the Golden Key National Honor Society; Phi Beta Kappa National Honor Society, an organization for liberal arts and science majors; and Phi Alpha Delta, the Pre Law Fraternity.

Colonel F. Edward Schwabe Jr., deputy commandant of the Corps of Cadets, wrote of Maggio, "Throughout his academic and military career at Virginia Tech, Ed has developed all the attributes of a leader to a marked degree. He is morally and ethically sound, mentally tough, and well-prepared physically for the demands of leadership."

Maggio's ability to lead surfaced in the organizations he is actively involved. Since spring 1996, he has been a member of the Association of the U.S. Army and a part of the Skipper Crew—including cadet cannon detail and serving as an executive officer. He also joined The Gregory Guard in 1996 and has been on the drill team and served as the Old Guard Chairman. During his junior year, Maggio was also active in the Ranger Challenge/Company, served as vice president of the Italian American Society, UT Prosim Ambassadors, Recruiting Outstanding Cadets, and the Virginia Tech Union movie committee. He continues to be active with the Inside Guard Knights of

(See *MAGGIO* on 12)

Susan Grubbs

By *Heather McElrath*

Just having good grades isn't enough to distinguish one student above all others. It takes a balance of academic success, leadership in student activities, contributions to the school and personal traits. As the 1998-99 Woman of the Year at Virginia Tech has found that balance.

"Susan is a woman of many talents. She earns 'A's' in everything from Introduction to Acting to Greek and Roman Mythology to World Political Economy," wrote Rachel Holloway, associate professor in communication studies, in her nomination of Grubbs.

Grubbs', a communication-studies and political-science major, academic success has included a spot on either the dean's or president's (a 4.0 QCA average) list all but one semester since fall 1996. However, that one semester was because of a pass/fail internship putting her under the required number of A/F semester hours.

She has also been given a Gamma Beta Phi scholarship for outstanding service and performance, an award for outstanding work in the news department at VTTV—the student-run television news program, and the Danforth "I Dare You" Award, which is a 4-H award given for outstanding leadership skills.

With Grubbs' academic success has also come memberships in many student honor

organizations. She is a member of Garnet & Gold, Tech's honor society for women; Golden Key National Honor Society; Phi Beta Kappa National Honor Society, an organization for liberal arts and science majors; Phi Kappa Phi National Honor Society; Gamma Beta Phi National Honor Society, where she also served as a Family Group Leader; and Virginia Tech's Honor's Program.

She has also been a member of Recruiting Student Volunteer Program, Dean of Arts and Sciences Student Advisory Committee, and Public Relations Student Society of America. Grubbs has also participated in Tech's study-abroad program and the Washington Semester, which combines work in Washington D.C., and lectures.

"One of the best things about attending Virginia Tech is that not only has it given me the opportunity to learn about myself and the world



Grubbs

(See *GRUBBS* on 12)

X CALIBER AWARDS

Barnette cited for improving student's learning experiences



Barnette

By Jean Elliott

Dwight Barnette's enthusiasm and drive to create an improved learning experience—particularly in educational technology—have earned him 1998-99 XCaliber Award.

Established by the Provost Peggy Meszaros in 1997, the XCaliber Award for individual

excellence at once celebrates and illustrates Barnette's innovative approaches to teaching

using technology. One of the first to recognize the capability of the World-Wide Web (WWW) in education, Barnette developed Computer Science course 1604: Introduction to the Internet in 1994 as the first completely on-line web-based course at Virginia Tech. Since then, Barnette has continued to be heavily involved with multi-media course ware, developing two other on-line courses.

Richard E. Nance, Dahlgren chair of the Systems Research Center, praised Barnette's ability, via consistent structure and formatting, to "build student confidence as learning progresses." Nance also noted that "for both computer-science majors and those in other disciplines, Dwight has strived to match the student's intuitive and expected reactions with

that of the software."

Accessibility in all three Barnette-designed courses is straight-forward and a number of aids permit easy navigation through the material. The format is not only user-friendly, but is easily transferred into other programs. The fact that the design originally used in CS 1604 could be ported to the other two courses is a testament to its adaptability.

Student interaction occurs in a number of ways with Barnette and his programs. A full-time instructor in computer science, Barnette serves as advisor to approximately 100 freshmen, teaches about 300-500 students at the freshmen and sophomore levels and also accepts responsibility for at least one undergraduate independent study or research

project each semester.

On the WWW, Barnette has included on-line testing, homework assignments, short quizzes and interactive video tutorials to diversify and enrich the courses. Students in all three of his on-line courses have reacted positively to the learning experience.

Acum-laude graduate of Concord College, Barnette completed his master's degree in computer science at Virginia Tech. He then taught at his alma mater and oversaw the development of Concord's computer-science degree.

An instructor at Tech since 1987, Barnette has also completed course work for a Ph.D. in educational technology.

Team earns recognition for multi-media tutorials

By Sally Harris

The Center for Innovation in Learning (CIL) selected the team of Stephen E. Scheckler, C. David Taylor, and Stewart A. Hill to receive the 1998-99 Xcaliber Award for excellence by a team of faculty and staff members in developing courseware using technology.

Scheckler's educational goal was to enhance the students' understanding of basic plant-biology relationships, such as ecology, growth, reproduction, and evolution in a hands-on laboratory setting using multi-media technology. Funding from within the university and from the National Science Foundation (NSF) supported the transformation of the Plant Biology Laboratory through multi-media technology, according to Joe Cowles, head of the biology department.

The team produced a comprehensive set of 15 integrated courseware tutorials, called Plant Biology Tutor, in CD form. This courseware is unique in the plant-science community and is now commercially distributed by Jones and Bartlett Publishers. The 15 tutorials allow students to access link-text explanations to 2,000 still images, dozens of animations, and three experimental simulations. In addition, according to CIL, "students enter their own



Hill



Scheckler



Taylor

experimentally generated data for the three simulations, while the tutorials encourage self-paced, active learning through reading, visual confirmation, and promoted discussion."

Scheckler, an early pioneer of course transformation at Virginia Tech, is "an outstanding botanist and creative individual," Cowles said. An associate professor of biology and adjunct associate professor of geological sciences, Scheckler examines the cellular basis for plant growth and the founding of early earth ecosys-

tems by plants in the Paleozoic. He has received grants from the NSF, National Geographic Society, Harvard, the Virginia Museum of Natural History, and the State Council of Higher Education of Virginia. He is a Fulbright scholar, a fellow of the Linnean Society, a Bullard fellow at Harvard, and a consulting editor of McGraw-Hill's *2000 Year-book of Science and Technology*.

Taylor formerly was an instructional designer, multi-media project manager, and as-

essment project manager for instructional innovations in Educational Technologies, a division of Information Systems at Virginia Tech. He coordinated assessment activities for a variety of instructional technology course transformations, including the ACCESS project sponsored by the Alfred P. Sloan Foundation, the new on-line summer school, and the Mathematics Emporium. In February, he took the position of director of Educational Assessment and Technology at the University of Texas Health Science Center at Houston, Dental Branch.

Hill studied plant anatomy, morphology, and paleobotany as a graduate student with Scheckler. He received his M.S. in 1992 based on fieldwork in the High Arctic, resulting in his description of the oldest known fern-like plants with laminated foliage. He also worked with the National Science Foundation Multimedia Plant Science project, developing tutorials, creating graphics and animations, and coordinating the Plant Science Lab program. He received a Commonwealth Fellowship and grants from the Virginia Academy of Sciences and Sigma Xi. He is now publications and exhibits coordinator for the Salem Museum and is pursuing a doctorate at Virginia Tech.

Math Emporium group wins with courseware technology

By Susan Trulove

"The use of technology has utterly transformed the introductory math program at Virginia Tech and is nothing short of a revolution," wrote Joseph S. Merola, associate dean of the College of Arts and Sciences, in nominating the Math Emporium for recognition on Founders Day April 9. "I can think of no other program (that) embodies the characteristics set forth in the XCaliber call for nominations."

Established in 1997, the XCaliber Award recognizes the outstanding contributions of faculty members who are developing courseware using technology. But the selection committee agreed with Merola's nomination of a team for transforming a broad program.

Also established in 1997, the Math Emporium has been an important part of several math courses involving thousands of students in less than two years.

The new learning center includes 500 work stations and additional specialized spaces and equipment in an environment that allows a variety of learning styles. The center offers faculty members and students opportunities to explore



Members of the Math Emporium team were, front row, from left: Terri Bourdon, Linda Powers, Bonnie Shealor, Linda Scruggs, Margaret McQuain, Abbie Kohler, Debbie Smith, Gwen Lloyd. Back row, from left: John Rossi, Chuck Hodges, Ken Hannsgen, Bob Rogers, Bob Olin, Mike Williams, Monte Boisen, Chris Beattie. Not pictured: Gail Hunger. (J. McCormick)

(See MATH on 11)

VIRGINIA TECH OUTSTANDING STUDENT AWARDS



Johnson

NAME: Jodie Johnson
COLLEGE: Agriculture and Life Sciences
MAJOR: Agroecology
HOMETOWN: Dobson, NC

"This young lady is the finest example of what is suppose to happen at a university. She has grown and matured as a person, a student, and a scientist in her four years. She has never hesitated to tackle tough chores, has succeeded in nearly everything she has tried, and she has been a multi-dimensional person and student."

James McKenna, professor, CSES and coordinating counselor



Delss

NAME: Eric Delss
COLLEGE: Architecture
MAJOR: Architecture
HOMETOWN: Bel Air, MD

"Eric Delss is simply put, an excellent student, thoughtful designer and outstanding potential architect. Mr. Delss doesn't just meet the truly exceptional category, he defines it."

Max Stephenson Jr., associate dean for academic affairs



Smith

NAME: Stacey Smith
COLLEGE: Arts and Sciences
MAJOR: Biology and Spanish
HOMETOWN: Virginia Beach

"She has been an outstanding student. She has sought to integrate her interest in science with her concern about global issues. We anticipate she will make a significant impact in her field"

Ellie T. Sturgis, associate dean



Novosel

NAME: Melissa Novosel
COLLEGE: Business
MAJOR: Management
HOMETOWN: Girard, Ohio

"Beyond her academic achievements, Melissa's exceptional contributions to Virginia Tech and the wider community leaves little doubt that she is deserving of this award."

Jon Shepard, department head



Caruso

NAME: Elise Caruso
COLLEGE: Engineering
MAJOR: Industrial and Systems Engineering
HOMETOWN: Corning, NY

"Her outgoing personality and her sincere belief in the department and the profession have made her a natural candidate for public-relations assignments. Through her contact with people both on and off campus, she has continued to enhance the image and reputation of the department."

Michael Deisenroth, professor and assistant department head



Muniz

NAME: Elvira Muniz
COLLEGE: Forestry and Wildlife Resources
MAJOR: Natural Resource Recreation
HOMETOWN: Burke

"Ms. Muniz' leadership among her peers has benefited the education opportunities for all of us. Her active involvement inside and outside of the class makes her an excellent ambassador for Virginia Tech."

G.N. Brown, dean, College of Forestry and Wildlife Resources

NAME: Christine Grecus
COLLEGE: Human Resources and Education
MAJOR: Family and Child Development
HOMETOWN: Roanoke

"Christine justly deserves the recognition as outstanding senior of the College of Human Resources and Education. She has given unselfishly of her time to the college as a college ambassador as well as to the community through her volunteer service as a tutor to children at Gilbert Linkous Elementary. In addition, her outstanding record of scholarship exemplifies that of a special senior."

Janet M. Johnson, dean



Grecus



Guest

NAME: John Guest
COLLEGE: Veterinary Medicine
MAJOR: Veterinary Medicine
HOMETOWN: Germantown, MD

"John was the unanimous choice for Outstanding Senior by our College Scholarship and Awards Committee. In addition to academic achievements, John has been extremely active in the area of service (within the college and the community). John is an exceptional person and the college is proud to have him represent us as this year's outstanding senior."

S. Dru Forrester, associate professor, Department of Small Animal Clinical Science, director of student affairs

ACTIVITIES

EVENTS

Thursday, 8

Multicultural Program, noon, Squires Multicultural Center: "The Holocaust: Too Painful to Remember or Too Important to Forget?" Panel discussion.

STS Thursday Discussion, 2 p.m., 132 Lane: Topic TBA, by Leslie Bochensky.

CEUT Videoconference, 2:30-4 p.m., DBHCC room C: "Faculty on the Frontlines: Reclaiming Civility in the Classroom."

International Week Activity, 3 p.m., Cranwell Center: "Alcohol Awareness: An International Perspective."

Book Signing and Reading, 7 p.m., Volume Two: Jeff Mann, author of *Bliss*.

Friday, 9

Founders Day Program, 3:15 p.m., Burruss auditorium.

International Club Coffee Hour, 5 p.m., Cranwell Center: International Week and Officer Elections.

Student Recital, 8 p.m., Squires Recital Salon: Steve Harwood.

Saturday, 10

YMCA Hike, 9 a.m., meet in parking lot 403 Washington St.: Rock Castle Gorge.

Music Ensemble Concert, 8 p.m., Squires Recital Salon: The Meistersingers.

Sunday, 11

Student Recital, 3 p.m., Squires Recital Salon: Angela McClung

Student Recital, 8 p.m., Squires Recital Salon: James Tobin.

Monday, 12

CEUT Workshop, 3-5:30 p.m., Hillcrest Dining Room: Strategies for Large Enrollment Courses: Voices of Experience.

Multicultural Program, 4 p.m., Squires Multicultural Center: "The Realities of Being Gay at Virginia Tech."

Tuesday, 13

Bloodmobile, 10 a.m.-4 p.m., Squires Student Center.

Family Support Program, noon-1 p.m., DBHCC Conference Room A: "Caring for Your Terminally Ill Parent."

Multicultural Program, 2 p.m., Squires Multicultural Center: Highlighting Jewish Heritage: Yom Hashoah, A Reading of the Names of Holocaust Victims."

VTOnline Workshop, 2 p.m., 502 Major Williams: "Alternative Models in Online Education at Virginia Tech."

CEUT Workshop, 3-5:30 p.m., Hillcrest Dining Room: Promoting Active Learning.

Faculty Senate Meeting, 7 p.m., 32 Pamplin.

TAUT Workshop Production, 8 p.m., Squires Colonial Hall: Ruby Perkins as Moms Mabley.

Wednesday, 14

Bloodmobile, 10 a.m.-4 p.m., Squires Student Center.

CEUT "Meal and Mini" Workshop: 11:15 a.m.-12:130 p.m., North Lounge, Johnson Student Center: Review Strategies.

STS Discussion, 2 p.m., 132 Lane: Feminist Science Studies.

Multicultural Program, 4 p.m., Squires Multicultural Center: "Lies My Teacher Told Me: Everything Your American History Textbook Got Wrong," by James Loewen.

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

Thursday, 15

Bloodmobile, 10 a.m.-4 p.m., Squires Student Center.

Multicultural Program, 5 p.m., Squires Multicultural Center: Readings From the "Expressions of the Holocaust."

Staff Senate Meeting, 5:30 p.m., 1810 Litton Reaves.

Multicultural Program, 8 p.m., DBHCC auditorium: Charlene Schiff, holocaust survivor.

Student Recital, 8 p.m., Squires Recital Salon: Meredith Piplani.

TAUT Mainstage Production, 8 p.m., Squires Studio Theatre: *Dream of a Common Language*.

SEMINARS

Thursday, 8

Statistics, 3:45 p.m., 409 Hutcheson: "Noninformative Prior Bayesian Analysis For Statistical Calibration Problems," by Dan Eno.

Entomology, 4 p.m., 220 Price: "The Value of Biotechnology in Crop Agriculture," by Dave Simcox, FMC Corp.

BULLETINS

NOVA center to offer summer technology series

Virginia Tech's Northern Virginia Center will offer a special Summer Technology Series June 7-11 and 14-18, that has been specially designed for working professionals seeking training and knowledge in an accelerated format.

The first week of the series will be devoted to Internet Systems Development and feature short courses in Java Programming and Internet Applications with Socket Design. The second week will focus on Technology Management and Technical Communications and feature short courses in technology management, and technical writing and communications.

The series offers flexible enrollment with curriculum priced by the class, day, track, or for the entire two-week period. Group rates are also available. Additional information can be attained by visiting the series, web site at <http://www.conted.vt.edu/sti.htm>, or by calling 703-538-8384.

Virginia Tech offers a wide variety of graduate and continuing education programs at the Virginia Tech/University of Virginia Northern Virginia Center in Falls Church.

Division of Student Affairs sponsors teleconference

The Division of Student Affairs will sponsor a teleconference, "Learning About Learning Communities: Taking Student Learning Seriously," on Monday, April 19, from 1-4 p.m. in Squires Brush Mountain A Room.

This teleconference will highlight the many benefits of learning communities, but will also address the inherent challenges in designing and maintaining them over time. Presentations by a national panel will provide viewers an

opportunity to learn how and why learning communities are increasing student academic performance and retention while simultaneously facilitating faculty development and enhanced faculty/student affairs partnerships.

This teleconference is open to the public at no charge.

Open house planned for new learning center

The Department of Art and Art History will hold an open house and reception on April 15, from 4-6 p.m. to celebrate the recent completion of the newly renovated Art and Design Learning Center (the Old Printshop in the Upper-Quad). The facility, which includes graphic design, sculpture, and ceramics teaching studios and offices, will be open to our.

CEUT presents programs for faculty members

The Center for Excellence in Undergraduate Teaching will present three programs for faculty members interested in using class time more effectively.

Strategies for Large Enrollment Courses: Voices of Experience, will be offered Monday, April 12, from 3:30-5:30 p.m. in the Hillcrest Dining Room.

Art Buikema, Terry Papillon, Katherine Allen, and Gary Downey will participate in a discussion of teaching experiences in large-enrollment courses. Each of these Virginia Tech faculty members has received university-wide recognition for teaching excellence, often teaching classes with enrollments exceeding 100 students.

The discussion is sure to include a range of ideas for getting students more involved in their learning and more attuned to the disciplines of interest. The format will be informal, with brief

Friday, 9

Highlands in Chemistry, 11 a.m., 3 Davidson: "Unique Factors That Affect Reliability of Environmental Analytical Data," by Larry Keith, Waste Policy Institute.

Geological Sciences, noon, 2044 Derrington: "Volume Change During Partial Melting Reactions: Implications for Melt Extraction, Melt Geochemistry and Crustal Rheology," by Tracy Rushmere, Vermont.

MCBB, noon, 102 Fralin: "Plant Senescence: From Bench to Bank," by Susheng Gan, Kentucky.

Economics, 3:30-5 p.m., 3001 Pamplin: "Revising Unit Root Tests," by Aris Spanos.

Electrical/Computer Engineering, 4 p.m., 457 Whittemore: Topic TBA, by F. Sahin.

STS, 4-5:30 p.m., 132 Lane: "The Politics of Consulting the Child as an Experimental Subject in Late Eighteenth Century England," by Anne Rose, Johns Hopkins.

Monday, 12

Electrical/Computer Engineering, noon, 654 Whittemore: Topic and Speaker TBA.

Economics, 3:30-5 p.m., 3001 Pamplin: "Information Gatekeepers and the Competitiveness of Homogeneous Product Markets," by Michael Baye, Indiana.

Biochemistry, 4-5 p.m., 223 Engel: "The Learning Communities Initiative at Virginia Tech: A Framework for Academic Renewal," by Terry Wildman and Ron Daniel.

CSSES, 4 p.m., 232 Smyth: "Glutathione Reductase: Multiple Functional Role in Plants?" by Ruth Alsher.

Horticulture, 4-5 p.m., 409 Saunders: "Intergenerational Horticulture Therapy," by Mary Predny.

Tuesday, 13

Near Environments, 4 p.m., Wallace atrium: "An Insider's View: Environmental Issues at a Construction Site," by Joseph Laquatra, Cornell.

Thursday, 15

Statistics, 3:45 p.m., 409 Hutcheson: Title TBA, by Bert Gunter.

Electrical/Computer Engineering, 4 p.m., 654 Whittemore: "Toward a Robust Code for Rough Surface Scattering," by Rob Adams.

Entomology, 4 p.m., 220 Price: Graduate-student presentations, by Chris Barker and Jarrod Leland.

presentations by the featured faculty members, followed by open discussion.

The CEUT Workshop, *Promoting Active Learning* will be Tuesday, will be April 13, 3-5:30 p.m. in the Hillcrest Dining Room.

This workshop is for faculty members who want to engage students more actively, recognizing this is the key to initiating deeper learning. In this session, Margaret Hable will share strategies for paired learning; tips for promoting group discussion; activities for opening class sessions, processing information, and closing a session; tips on providing for breaks and pauses; lesson design structures. While it is difficult to make changes in instructional strategies, there are many ready-to-use structures that enable student involvement. Participants will leave this workshop armed and ready to take the risk of trying some new strategies!

Finally, the CEUT "Meal and Mini" Workshop *Review Strategies* will be Wednesday, April 14, from 11:15 a.m.-12:30 p.m. in the North Lounge, Johnson Student Center.

In this workshop, Margaret Hable will present activities and processes that assist students in reviewing course content in preparation for assignments.

Play's theme examines women's issues

The Virginia Tech School of the Arts presents *Dream of a Common Language* April 15-18 and 20-24 at 8 p.m. with a Sunday matinee at 2 p.m. The performances will take place in the Squires Studio Theatre.

Two of the goals of the Theatre Department in choosing

(See BULLETINS on 10)

BULLETINS

Continued from 9

Dream of a Common Language is to present a play written by a woman and one that focused on women's issues.

Tickets are available at the UUSA Box Office in Squires Student Center. Ticket prices are \$8 general admission and \$6 for students and senior citizens. For further information call the School of the Arts information line at 1-5200 or visit our web site at www.sota.vt.edu.

Women's Center presents *Conspicuous Construction*

Six students from the art history class "Re-Presenting Women" have mounted an exhibition titled "Conspicuous Construction" at the Women's Center, Price House. The display will be open April 5 through May 5, weekdays from 9 a.m.-5 p.m.

"Conspicuous Construction" refers to the flagrant and powerful role images have played in constructing the cultur-

ally acceptable roles and desired appearance of women. Just as bricks and mortar are structural components of buildings, literary and visual images of women are basic elements of the historical, cultural, and social construction of the female gender.

Art history Professor Jane Aiken encourages the community to learn how present discernment of women's roles has been powerfully influenced by images of the past and the present. "We invite you to stop in at the Women's Center and look, really look, at the images we have gathered from the art and literature of more than ten centuries," she says.

The Women's Center is located at the corner of Barger and Stenger Streets.

Final advising forum scheduled

Virginia Tech's task force on academic advising will hold the fourth and final in its series of Afternoon Chats on undergraduate advising Wednesday, April 14, at noon in the Squires Yorktown Room. The topic for discussion will be exemplary

advising practices and faculty rewards and recognition. Any-one is welcome to attend. Snacks and drinks will be provided.

Program examines mathematics in life sciences

The departments of Mathematics and Biology are jointly hosting a program on Monday, April, 26, at 7:30 p.m., titled "Mathematics in Life Sciences: Coping With Complexity." University Distinguished Professor John Tyson will speak on the theme "Mathematics and Biology: The Power of Nature." The program will examine the ever-increasing interplay between mathematics and biology. As life scientists deal with problems of increasing complexity, from the cryptic organization of the human genome to the tangled interactions of the biosphere, mathematical tools will play even greater roles in bringing order and understanding from chaotic jumbles of facts. To illustrate the potential power of mathematics in the life sciences, the presentation will survey the field from the geometric notions of the ancient Greeks to modern dynamical theories of genetic regulation.

Powell focuses on volunteerism

By Clara B. Cox

During a speech interrupted with applause, General Colin Powell, former chairman of the Joint Chiefs of Staff in the U.S. Department of Defense, told an audience in Cassell Coliseum that "all of us have to give more of ourselves" as we move into the 21st century.

Powell's March 30 talk, sponsored by the Virginia Tech Union and the Corps of Cadets Center for Leader Development and organized by University Unions and Student Activities, focused on volunteerism. It was the highlight of the *Ut Prosim*: That I May Serve program, a year-long celebration of community service and volunteerism by Virginia Tech students.

Powell related the efforts of America's Promise--The Alliance for Youth, a national campaign he is heading to improve the lives of at-risk children. Noting that he had also been an at-risk child, he talked about growing up in a ghetto, where his life was molded by the values his parents taught him and the watchful care of an extended family. He also talked about writing and promoting his best-selling autobiography, *My American Journey*, and his long and highly decorated military career, and he related vignettes about meetings with Gorbachev and Queen Elizabeth II.

He praised Virginia Tech for its motto, *Ut Prosim*, and said that he wanted "to persuade college students such as yourselves that giving to others is part of growing up. All of us have to give more of ourselves." In accordance with his wishes that the event focus on students, the sponsors had distributed 75 percent of the tickets to students.

The retired general drew loud cheers at the close of his presentation when he donned a Virginia Tech sweatshirt, presented to him by Charles Steger, vice president for Development and University Relations; Carolyn Haag, 1999-2000



Josh King, left, regimental commander of the Corps of Cadets, presents General Colin Powell with a bronze Virginia Tech Corps of Cadets commemorative coin. (Bob Veltri)

regimental commander of the Corps of Cadets; and Molly Stout, 1998-99 vice president of the Virginia Tech Union.

Preceding his speech, Powell spoke for about 20 minutes to the Corps of Cadets, spent 15 minutes answering questions from the media, and attended a private reception in the Bowman room.

Deadline for registration extended

The deadline for registering for the Saturday, April 24, colloquium for teachers and business professionals interested in business/technical communications has been extended to April 17.

Participants will talk about communication requirements and problems faced by those in the workplace. The colloquium runs 9 a.m.-2 p.m. in Hillcrest Hall, with morning snacks and lunch provided. Admission is free.

Attendance is limited to the first 50 registrants. To register on line, go to <http://athena.english.vt.edu/~dubinsky/vtprocomm/brochure.htm>. For information, call Jim Dubinsky at 1-7909 or e-mail him at dubinsky@vt.edu.

LIONBERGER

Continued from 1

Lionberger Endowment Fund for Student Education, a perpetual source of funds that will strengthen the Department of Building Construction's ties to the construction industry by sending students to professional seminars and conventions and by bringing industry experts to campus. They have also supported the establishment of a Means and Methods Laboratory, which will provide students with hands-on experiences to understand how people, processes, and equipment interact.

Primarily established to benefit students in building construction, the laboratory will also be used by other disciplines in the College of Architecture and Urban Studies and in the university.

In addition to his support of Virginia Tech, Lionberger is active in a variety of organizations that help young people and benefit the community. He is a board member and vice president for facilities for the Smith Mountain Lake 4-H Center. He was founder, president, and now a member of the Board of Directors of the Minnick Education Center, sponsored by Lutheran Family Services. He has twice chaired the WBRA Public Television auction. He is chairman of the board of the Brandon Oaks Retirement Center, and is a board member and current chairman of the Salvation Army Roanoke Corps Unit.

JONES

Continued from 1

ARC. When Jones moved into management, she was the first and remains the only woman at ARC to have held two director of engineering positions.

"I don't know of another company whose chief design engineer—the head of rocket-motor design—is a woman. And she is a woman who worked her way up through the ranks of this business," said Antonio L. Savoca in 1990 when he served as president and CEO of ARC.

In 1993, she was given the position of director of program and engineering support for the Advanced Materials Division, where she directed the work of bringing the titanium metal matrix composite (TMC) into the first production for aircraft engine components after 10 years of development.

Presently, she is the project engineer for another advanced materials program to develop nozzle panels for Venture Star, the single stage to orbit vehicle that will replace the space shuttle.

During the early part of her career, she conducted structural and thermal analysis of metal and plastics parts and solid propellant, as well as the mechanical design of hardware. She devoted part of her career as the chief engineer on the Multiple Launch Rocket System (MLRS), and is known by her peers as the definitive expert on the engineering development of rocket motors for the MLRS.

The U.S. Army has made several commendations on the MLRS, all attesting to the robust design and high quality of the product. She is in the MLRS arena again since ARC has been

awarded the contract to develop a rocket for the guided MLRS system.

In terms of career "firsts" as a woman, Mary Virginia Jones was the first woman registered as a professional engineer by the state of Virginia. This affiliation occurred five years after her graduation in mechanical engineering from Virginia Tech. (She was the only woman in her class.) She was the first woman appointed to the State Board of Engineers, Land Surveyors, and Landscape Architects, a position she held from 1984-88. She was the first woman engineer appointed by a Virginia governor to serve on the Virginia Tech Board of Visitors, from 1984-88. She was the first woman to receive her alma mater's highest honor, the Distinguished Alumni Achievement Award. Until 1995, she was the only woman to have served on the Virginia Tech College of Engineering's Advisory Board. (She also chaired this board.) She was the first woman to receive the College of Engineering Achievement Award. She is currently on the Search Committee for Virginia Tech's next president, and she is president-elect of the Virginia Tech Alumni Association.

In 1993 Jones' technical expertise was recognized by the National Research Council of the National Academy of Science and the National Academy of Engineering. She was named to one of its national committees: the Advanced Space Technology of the Aeronautics and Space Engineering Board. In 1993, she was awarded the Upward Mobility Award by the Society of Women Engineers. This award recognized women who have achieved upper-management positions. In 1997 she received the Virginia Tech College of Engineering's Distinguished Alumna Award.

EMPLOYMENT

CLASSIFIED POSITIONS

The following classified positions are currently available. More details of these positions, specific application procedures and position-closing dates may be found on the Personnel Services web site at <http://www.ps.vt.edu>. Available positions are also listed on the Job Line, a 24-hour recorded message service: Office/Clerical: 1-6196; Technical/Research: 1-6160; Service/Trades: 1-6176; Professional and Managerial: 1-4649; Information Technology: 1-2233. Some of the following positions include state benefits. Positions with numbers beginning with a "W" are hourly and do not include state benefits. Comments about this shortened listing should be made to perserv@vt.edu or by calling 1-5301 or 1-6258 for persons with hearing impairments. Individuals with disabilities desiring assistance or accommodation in the application process should call by the application deadline.

To better serve applicants, the closing date for advertised positions has been changed to 1 p.m. Monday unless otherwise stated. An EO/AA employer committed to diversity.

Full Time.

Accountant, 4526P, Grade 9, Controller's Office.

Documentation Specialist, 1399D, Grade 6, Communications Network Services.

Electrical Engineer, 7130P, Grade 12, Facilities Electrical Service.

Electrician, 0351P, Grade 7, Physical Plant.

Fiscal Assistant, 7437D, Grade 5, University Development.

Food Operations Assistant B (3rd Baker), 2986H, Grade 2, Residential and Dining Programs/Southeaste Bakeshop.

Food Operations Manager A (Assistant Manager), 1205H, Grade 8, Residential and Dining Programs/Hokie Grill.

Food Operations Manager B/Executive Chef, 0029H, Grade 10, Residential and Dining Programs/Owens Dining Center.

Grounds Worker, 7249P, Grade 2, Recycling and Solid Waste.

Housekeeping Lead Worker/Special Projects Crew, 300H, Grade 2, Residential and Dining Programs.

Housekeeping Worker, 2108P, Grade 1, Physical Plant/Housekeeping.

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

Housekeeping Worker, 1076H, Grade 1, Residential and Dining Programs.

Instructional Technology Systems Manager, 2122D, Grade 16, Educational Technologies.

Laboratory Mechanic A, 7419J, Grade 4, Materials Science and Engineering.

Laboratory Specialist, 7439M, Grade 8, Biochemistry.

Licensing and Trademark Director (Business Manager B), LC055D, Grade 12, Trademark and Licensing.

Mechanical Engineer, 1601P, Grade 12, Physical Plant.

Office Services Specialist, 0541G, Grade 5, Career Services.

Office Services Specialist, 214D, Grade 5, University Libraries.

Program Support Technician Senior, 7355J, Grade 7, Electrical and Computing Engr.

Programmer Analyst, 6990T, Grade 12, Budget and Financial Planning.

Programmer, 7405D, Grade 10, Administrative Information Systems.

Programmer, 7434D, Grade 10, Administrative Information Systems.

Programmer, 2256D, Grade 10, University Libraries.

Programmer/Analyst, 7433D, Grade 12, Administrative Information Systems—User Services.

Senior Programmer Analyst, 6896D, Grade 14, Information Technology Acquisitions.

Senior Programmer/Analyst, 7328D, Grade 14, Administrative Information Systems.

Student Telecommunications Supervisor, 488D, Grade 10, Communication Network Service.

Part Time.

Electronic Technician Senior, W022588J, Grade 10, Engineering Science and Mechanics.

Enrollment Services Assistant (Academic Adviser), W022613T, Grade 7, Computer Science.

Fire Extinguisher Trainer (Security Officer Senior), W022637T, Grade 7, Environmental Health and Safety Services.

Fiscal Technician, W020810M, Grade 6, Veterinary Teaching Hospital.

Flight Instructor (Pilot), Airport, Grade W020661T.

Food Operations Assistant A, W022314H, Grade 1, Residential and Dining Programs.

Food Operations Assistant B, W022315H, Grade 2, Residential and Dining Programs.

Grounds Worker, W020798G, Grade 2, Golf Course.

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

Human Resources Assistant, W022652D, Grade 8, Personnel Services.

Laboratory Aide, W020811M, Grade 2, College of Veterinary Medicine.

Office Service Specialist, W022647G, Grade 5, Donaldson Brown Hotel and Conference Center.

Office Services Aide, W020548T, Grade 2, University Registrar.

Office Services Assistant, W022638G, Grade 4, Continuing Education.

Office Services Assistant, W022439C, Grade 4, Personnel Services.

Office Services Specialist, W022560M, Grade 5, College of Veterinary Medicine.

Pharmacy Supervisor, W022501M, Grade 15, Veterinary Teaching Hospital.

Postal Assistant, W022644D, Grade 4, Alumni Relations.

Program Support Technician, W022648G, Grade 6, Donaldson Brown Hotel and Conference Center.

Program Support Technician, 7413J, Grade 6, Research and Graduate Studies.

Programmer, W022504D, Grade 10, Communications Network Services.

Research Specialist, 4540M, Grade 8, Horticulture.

Security Guard, W020470T, Grade 2, Police.

Trades Helper/Carpenter's Assistant, W020219H, Grade 4, Residential and Dining Programs/Facilities.

University Only.

Food Operations Manager A (Assistant Manager), 1209H, Grade 8, Residential and Dining Programs/Dietrick Dining Center.

Off Campus.

Distance-Learning Specialist, 7410D, Grade 12, Office of Distance Education.

Facilities Manager (Student Services Coord), 2097J, Grade 10, Northern Virginia Center.

FACULTY POSITIONS

INSTRUCTIONAL

Department of Management Science and Information Technology. Assistant Professor. Assistant professor will teach decision support systems, other information-technology-related courses, and management science/operations research. Ph.D. or equivalent in a related area is required; strong research interest and demonstrated teaching ability. Position requires strong computing ability and OR/MS background. Job requirements: Ph.D. candidate; years experience: 0; citizenship: fields of interest: management science/OR; decision sup-

port/management information systems; artificial intelligence/neural networks; operations management. Contact Bernard Taylor III, Department of Management Science and Information Technology, 1007 Pamplin Hall (0235), Virginia Tech, Blacksburg VA 24061.

NON-INSTRUCTIONAL
Center For Power Electronics Systems. Senior Packaging Engineer. The incumbent in this position will be responsible for process development, tools/equipment maintenance, and be the sustaining engineer in semiconductor, IC, ceramic, and printed-circuit-board packaging operations. Responsibilities will also include short-term technology development schedules and long-term strategic plans to guide and determine the future applications of hybrid and advanced-power-electronics packaging technology at CPES. The candidate must possess strong wire-bonding, die-attach, and SMT background. Moreover, technical skills must encompass several of the following areas: electro-chemical metallization thin-film deposition, thick-film processing, laser machining, and photo-lithography. Strong hands-on experience with epoxy/solder dispensing, pick and place, flipchip, underfill, and epoxy curing is preferred. Computer proficiency along with strong communication and planning skills are required. Candidate should hold a BS degree in engineering with five-plus years of experience in micro-electronics assembly. Please forward your resume to Ann Craig, Center for Power Electronics Systems, 657 Whittemore Hall (0111), Virginia Tech, Blacksburg VA 24061. Phone: 1-815; fax: 1-6390; e-mail: annc@vt.edu.

Residential and Dining Programs. Residence Director. The residence director will provide full-time professional supervision for two residence halls. The position is a 12-month appointment requiring residence in the assigned residence hall and becomes available June 25, 1999. For more detailed information about this position, contact our web site at <http://www.rdp.vt.edu>. Responsibilities: Management of two residence halls housing 600 students; coordination of community-development program; supervision and training of undergraduate staff; facilities management and security; advising hall councils; judicial hearing officer; promotion of diversity and learning. Assist with international theme housing in assigned residence hall. Co-lateral assignments in departmental initiatives such as staff selection and training, program development, and special housing programs. Required educational/experiential qualifications: Master's degree in college student affairs/student personnel or related field. Up to one year prior full-time professional employment experience. Demonstrated proficiency in residence-hall management and staff supervision. Desired educational/experiential qualifications: Strongly prefer prior experience in residence-life activities such as facilities management, judicial affairs, and student leadership development/advising. Compensation is \$20,000 annually, furnished apartment, meal plan, and full faculty state benefits. Submit letter of application, resume, and names and contact information of three references to Residence Director Search Committee, Residential and Dining Programs, 109 E. Eggleston Hall (0428), Virginia Tech, Blacksburg VA 24061.

Virginia Tech Center for Survey Research. Data Systems Manager. Minimum of bachelor's degree in computational or social science required. Maintain center's IBM-compatible hardware, local area network, and computer-assisted-telephone interviewing (CATI) software. Write DOS-based programs. Supervise support staff. Develop data base documentation and files, create SAS or SPSS statistical programs, and prepare statistical reports for approximately 35 project clients annually. Position to begin as soon as possible. Send resume and names of three references by April 20 to Alan E. Bayer, Search Committee Chair, Virginia Tech Center for Survey Research, 207 W. Roanoke St. (0543), Blacksburg VA 24061.

MATH

Continued from 7

better ways to blend technology and personal interaction in their courses.

It has allowed students in large introductory courses, on subjects such as calculus, "a way of connecting to the subject, to the instructors, and to each other that is new and exciting," Merola said. Subsequent department, university, and independent assessments have documented improved student performance.

The emporium was built on faculty members' years of experience as teachers, and on their several years of increasing experience with computer technology and course innovations, for which the math department and individual faculty members have won numerous awards. The university provided substantial support for the evolution through such programs as the award-winning Instructional Development Initiative, which provided hardware and training.

Anne Moore, director of the Center for Innovation in Learning, wrote in the citation that the selection committee commended the Math Emporium team's focus on the "student-oriented outcomes" of active learning, interac-

tive communication, more self-directed, self-paced learning, computer literacy integrated with content, electronic access to course material and supplemental resources, and electronic access to course information.

"The XCaliber Award for team excellence in program transformation at once celebrates and illustrates your innovative approaches to teaching using technology," she said. While saying "the Math Emporium is the product of so many individuals as to make it impossible to list them all," the citation praises department head Robert Olin's leadership, as well as the special efforts of the following team members: Michael Williams, associate vice president for information systems and research computing; Kenneth B. Hannsen, professor; Christopher A. Beattie, associate professor; Monte B. Boisen, professor; Charles B. Hodges, instructor; John F. Rossi, professor; Terri A. Bourdon, instructor; Robert C. Rogers, professor; Linda E. Powers, instructor; Margaret P. McQuain, instructor; Deborah B. Smith, instructor; Linda H. Scruggs, assessment coordinator; Gwendolyn M. Lloyd, assistant professor; Abigail W. Kohler, instructor; Bonnie B. Shealar, instructor; and Gail M. Hunger, instructor.



VIRGINIA POLYTECHNIC INSTITUTE AND STATE UNIVERSITY

Spectrum, a faculty-staff tabloid, is published each Thursday during the academic year, with the exception of certain holidays, exam weeks, and the summer. Copy deadline is 5 p.m. Thursday. No advertising is accepted.

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IN OTHER NEWS

Multicultural Programs plans events for Holocaust Awareness Week

By Clara B. Cox

Virginia Tech's recognition of Holocaust Awareness Week will feature a variety of events, all open to the public free of charge. Highlights of the recognition include a public reading of the names of Holocaust victims and a presentation by a Holocaust survivor.

While the official recognition occurs April 11-17, Multicultural Programs, which is sponsoring the events, will precede the week with a panel discussion on "The Holocaust: Too Pain-

ful to Remember or Too Important to Forget?" The discussion will take place from noon-1 p.m. on April 8 in the Multicultural Center, located in room 140 Squires.

On April 13 members of the university community will read the names of Holocaust victims aloud from 1-5 p.m. outside the Multicultural Center to observe Yom Hashoah Holocaust Remembrance Day. Poetry inspired by the Holocaust will also be read, and Stephen Spielberg's *Survivors of the Shoah* will be shown

inside the center. Persons who want to participate in the reading of names should call 1-6023 or send an e-mail message to ecoliver@vt.edu.

On April 15 at 5 p.m., a reception will be held in the Multicultural Center to honor contributors to the "Expressions of the Holocaust" writing contest. Honorees will read their submissions during the event.

Beginning at 8 p.m. on April 15, Holocaust survivor Charlene Schiff will talk about her experiences as a nine-year-old child during the

Holocaust in eastern Poland. One of two known survivors among the 5,000 Jews in her hometown, Schiff is affiliated with the United States Holocaust Museum. Schiff will take questions following her presentation, which will be held in the Donaldson Brown Hotel and Conference Center auditorium.

For more information, call the Multicultural Programs Office at 1-6023.

DAVID SMITH

Continued from 4

Specializing in the silviculture and tree/soil/site relationships in Appalachian forests, Smith has been principal or co-investigator for more than \$1 million in external grants and contracts. He was co-investigator for a USDA Challenge Grant of \$80,000 that enabled the college to restructure its freshman introductory course.

Smith holds the Honorable and Mrs. Shelton

MAGGIO

Continued from 6

Columbus and the Residence Hall Federation. Maggio's academic success has put him on the deans list since fall 1995, earned him the Commandant's Award, Class of '54 scholarship, Emerging Leader Scholarship, and an Army ROTC scholarship. His awards outside of the university have included the American Legion Outstanding Achievement Award, Addison Caldwell Memorial March Award, Association of the U.S. Army Top Historian Award, and the Daughters and Founders of Patriots Award.

After graduation and after completing Army Advanced Camp at Fort Lewis in Washington, Maggio will be commissioned as a second lieutenant.

CASTAGNOLI

Continued from 2

reer," Taylor said.

Castagnoli provides training for young scientists, several of whom have gone on to successful independent careers. Matt Ames, for example, is director of research at the Mayo Clinic. Castagnoli also serves on a variety of advisory boards, councils, panels, and study sections that "have defined the interfaces between chemistry and biology."

Castagnoli's research has brought in \$4 million in funding, and he has published 196 refereed journal articles and given nearly 200 invited lectures and seminars. He is, Taylor said, a "remarkable, gifted, and internationally respected scholar."

WINETT

Continued from 2

clinical training in the psychology department, director of the Center for Health Behavior, and associate department head. He teaches undergraduate and graduate courses, and developed the undergraduate course on health psychology. But he says he is most proud having chaired 30 doctoral committees to completion at Virginia Tech.

He earned his bachelor's degree from Queens College, majoring in psychology, and received his doctorate from the State University of New York at Stony Brook in 1971.

H. Short Jr. Professor of Forestry endowed professorship and has been advisor to Xi Sigma Pi and Alpha Zeta honor societies. "He is a knowledgeable professional, a skilled lecturer, a helpful advisor, and an exemplary role model for all students," Burkhardt said.

VOSHELL

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Voshell teaches undergraduate classes in aquatic entomology and freshwater biomonitoring. He also developed and teaches three one-credit courses for elementary-school teachers helping them bring entomology into their classrooms.

In addition to teaching teachers, Voshell also joins with schools in presenting experiments or in conducting field trips.

Voshell was a high school teacher following his graduation from Randolph-Macon College in Ashland. He earned a doctorate in zoology from Virginia Tech, and has been on the faculty here since 1976.

HINER

Continued from 6

from other universities have begun to contact Stephen directly for help with aquatic insect identifications" said Voshell.

Jay Gilliam, coordinator of the Virginia Save Our Streams program, said Hiner is the "sort of person [who] makes Virginia Tech the unique resource to Virginia that it is."

Hiner who combines his knowledge of aquatic sciences with a passion for trout fishing is in demand for talks to various groups across the state, which he does on his own time. And when Senator John Warner was interested in a trout-fishing trip to Southwest Virginia, Hiner was invited to accompany Warner and provide his expertise.

BONNIE J. SMITH

Continued from 4

organized, straight-forward lectures," said a fellow faculty member during a peer evaluation.

Finally, in terms of excellence in teaching, having a passion and a love for both teaching and for the students, is a necessity. Smith strongly agrees. "I love these students, that's why I'm here," she said, praising her students as focused, motivated and intelligent. Smith feels that a good teacher needs to have a love of his or her subject, because if they are not excited about what they are doing, they won't excite the students. "To be a good teacher is a two-way street," she said "You can't achieve excellence in teaching without excellence in students."

CHANDLER

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Chandler's abilities have saved his department and others tens of thousands of dollars. He did the electrical wiring for a Fisheries and Wildlife Sciences greenhouse, a task that cost \$8,000 when done at another university. His renovations at the Virginia Seafood Research and Extension Center made that project possible and saved \$10,000 to \$15,000.

He also converted an unused room in the Food Science Building into a fish-processing facility. "Without John's assistance, the laboratory would not have become a reality since the department did not have sufficient funds to dedicate to the project," said George Flick, university distinguished professor.

Hackney concluded, "John is what every Tech employee should reflect, an individual dedicated to perfection and duty."

ARNOLD

Continued from 6

until systems work efficiently.

"Exceptional accomplishment of her many departmental duties enables everyone to do their jobs most efficiently."

John L. Hess, head of the biochemistry department, said, "She is the epitome of the faithful steward as she uses and shares her many talents and abilities to make the university a better place to work. She is an exemplary individual for whom the Virginia Tech motto, 'That I May Serve,' is a daily guide as she works with colleagues, encourages accomplishment, and nurtures friendships."

GRUBBS

Continued from 6

around me, I am also able to give back to the university and the surrounding community," Grubbs said of her experience at Virginia Tech.

Some of the ways she has been able to give back is through her work as a resident advisor, a head resident advisor in Main Eggleston Hall, a public-relations representative in the office of Summer Sessions, and an intern in the Division of Student Affairs.

Outside Tech, Grubbs has been a Capitol Hill Intern in Congressman Bob Goodlatte's office, and a research assistant and intern at the U.S. Agency for International Development.

GELLER

Continued from 4

students in community-service research that puts knowledge to work enables students to experience the value of helping others." He hopes the lessons they experience will be the start of a lifetime of actively caring behaviors and attitudes."

Geller is the author of several books, including *The Psychology of Safety, Working Safe, Understanding Behavior-Based Safety, Beyond Safety Accountability: How to Increase Personal Responsibility, and Building Successful Safety Teams*. Since 1987, the Center for Applied Behavior Systems has procured \$2,778,558 for research from such agencies as the Centers for Disease Control and the U.S. Department of Energy and such corporations as Exxon Chemical Co. and Travelers Insurance Co.

FORRESTER

Continued from 4

quality of the teachers we have here in our college and at the university."

She is a major user of modern instructional technology in the classroom and has been awarded several educational grants to help create web-based instructional materials. She maintains four web-sites with about 1,500 digital images and 750 files that provide students with access to materials about clinical patients.

"I love working with her," said Jo Byron, president of the Student Chapter of the American Veterinary Medical Association. "She's phenomenal. She's always a good ear, and she's always reachable."

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