

Bohland Serves as Interim Provost



President Charles W. Steger has named James R. Bohland as the interim provost to replace Peggy S. Meszaros, who returned to the College of Human Resources and Education as an endowed professor for human development on Sept. 1. Bohland directs the School of Public and International Affairs (SPIA) in the College of Architecture and Urban Studies, the College of Arts and Sciences, and the College of Agriculture and Life

Sciences. He wrote the proposal that led to the creation of SPIA five years ago and has been its only director.

Bohland formerly headed the Department of Urban Affairs and Planning, a post he held for 12 years. He joined the Virginia Tech faculty in 1980 and became a full professor in 1984. His research interests lie in health policy and planning and in the social impacts of information technology. He is currently examining the structure and resource systems of community technology centers in disadvantaged neighborhoods under a grant from the National Telecommunications and Information Agency.

Steger named Peter Eyre, Dean of the Virginia Maryland Regional College of Veterinary Medicine, to chair the search committee for a permanent provost. ♦

Virginia Tech Engineers Engaged in Greenhouse Gas Reduction Project in India

Two Virginia Tech faculty members participated in kick-off activities for the Climate Change/Greenhouse Gas Pollution Prevention Project (GEP) in India this past summer. Dr. Saifur Rahman, Director of the Alexandria Research Institute and the Center for Energy and the Global Environment, and Dr. Michael Willingham, an energy management and policy specialist who is an adjunct faculty member at ARI, spent ten days in India in August visiting partner institutions and interviewing stakeholders. Their objective was to develop training programs for industry and the civil service.

The project, funded by the U.S. Agency for International Development (USAID), is the first engineering-oriented international project that Virginia Tech's Office of International Research and Development has attracted. Its goal is to reduce greenhouse gas emissions by promoting energy efficiency. Its specific foci are: efficient power generation; the fostering of climate change initiatives in the private sector for sustainable development; and the linking of urban development and climate change.

Greenhouse gases disperse in the atmosphere; they do not remain local problems that can be remedied by addressing local sources of emissions. Therefore, it is in the United States' interest to reduce greenhouse gas emissions both at home and abroad.

India is an important decision-maker in global greenhouse gas policy and action for several reasons. It currently ranks sixth

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Perspectives

*From the desk of Dr. S.K. De Datta,
Director of the Office of International Research and Development (OIRD), Outreach Division,
Office of the Provost, and Associate Dean of the College of Agriculture and Life Sciences*

Virginia Tech has established itself as a significant player in the United States and abroad as regards international programs that entail collaborative research, education and outreach (technical assistance). This good standing in the land grant university system is challenging because it is becoming an increasingly crowded arena with fierce competition. However, it also offers opportunities not previously available to Virginia Tech. For example, OIRD/Virginia Tech has developed a mini-consortium with selected land grant universities to compete for donor-funded projects. One such attempt was with Cornell, Ohio State, Purdue and Tuskegee universities to submit an education project proposal for USAID funding through the American Liaison Office in Washington, D.C. Even though the OIRD/Virginia Tech-led mini-consortium was not successful in garnering funds, it provided an excellent opportunity to work with a select group of universities with like philosophies and experience.

OIRD/Virginia Tech is also pursuing areas such as environmental projects in order to broaden its base for faculty involve-

ment and draw from a greater pool that includes engineers and environmental management specialists. Additionally, OIRD/Virginia Tech is gaining significant experience working with the private sector. Together with Chemonics, Virginia Tech is engaging in biodiversity research and development through an indefinite quantity contract. Often, Virginia Tech faculty cannot avail themselves of such opportunities because of other demands on their time, such as teaching or domestic research responsibilities. Nonetheless, OIRD/Virginia Tech is currently implementing another environmental management project on greenhouse gas reduction and energy efficiency in India (see above article).

As we strive to achieve excellence in our programs, OIRD/Virginia Tech is also struggling to enhance its visibility on our campus and abroad. In order to achieve that, what we need now is a focus on priorities and structural change that will enhance the synergy of all aspects of Virginia Tech's current international programs.

If international programs are to help Virginia Tech become

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Notables

Faculty Involvement Around Campus

College of Agriculture and Life Sciences

In July 2000, the Tidewater Agricultural Research and Extension Center hosted three visitors from the Agricultural Research Council, Potchefstroom, South Africa. **Hennie Joubert** and **Raymond Barkel**, technical staff, visited in early July to learn about production, harvesting, grading, and storage of large-seeded (Virginia market type) peanuts. **Dr. John Swanevelder** visited in mid-July to give a seminar on "South African Groundnut Production" and to learn about our Peanut Quality Evaluation Program. The visitors met with faculty at the center and toured local shelling and processing facilities. **Dr. William Hohenboken**, Professor of Animal and Poultry Science, was guest of the Central Research Institute for Animal Sciences (CRIAS) in Bogor, Indonesia, from September 14-22. Dr. Hohenboken addressed the CRIAS National Animal Science Seminar on the topic of "Animal Breeding in a Global World: Present State and Future Prospects." Dr. Hohenboken also visited scientists and government agencies that support livestock production, commercial animal production enterprises, and village subsistence farms, and provided advice as to how those functions might be enhanced, and how collaboration with Virginia Tech or other United States institutions might be mutually beneficial. **Dr. David M. Kohl**, Professor of Agricultural and Applied Economics, was the keynote speaker at the 39th annual South African Agricultural Economic Conference in Sun City, South Africa, September 27-29. He presented the Simon Brand Memorial Address, on South African agricultural finance within the context of global changes and trends. Professor Kohl also presented a preconference seminar to bankers, academia, and government leaders in credit analysis. He also presented a lecture series throughout South Africa to bankers, lenders, and producers on financial analysis, risk management, and credit scoring of agricultural loans. **Dr. Jerzy Nowak**, Professor and Head of the Department of Horticulture, attended the Atlantic Agricultural Sciences and Technology Workshop held at the Nova Scotia Agricultural College in Truro, Nova Scotia, Canada on October 26-27. The workshop, entitled "Technologies and Opportunities," targets industry, researchers and economic development agencies in Atlantic Canada. Dr. Nowak led the "Great Genetically Modified Organism (GMO) Debate" session, which included brief presentations outlining current events in the development/introduction of GMO foods, regulatory requirements related to novel foods approval, opportunities and challenges in marketing products derived from GMO plants, and issues, non-issues and hidden agendas as linked to GMOs. **Dr. Greg Welbaum**, Associate Professor in the Department of Horticulture, was invited by the President of National Pingtung University of Science and Technology (NPUST), Dr. Shan-Da Liu, to visit NPUST in Pingtung, Taiwan in March. Dr. Welbaum presented seminars entitled "Optimizing Curcubit Seed Quality" to the Crop Science Department and "Teaching Horticulture via the WWW at Virginia Tech" at the Center for Tropical Agriculture. Dr. Welbaum also met with President Liu and Mike Guu, Director of the Office of Technology Cooperation to discuss ways that Virginia Tech might deliver

distance learning courses to NPUST, collaborate on research projects, and initiate a student/faculty exchange program. **Dr. Malcolm Potts**, Professor of Biochemistry, presented invited seminars at the 10th International Symposium on Phototrophic Prokaryotes in Barcelona, Spain in August, and at the Biotechnology Centre, Cambridge University, England in October. **Dr. Diane Relf**, Professor and Extension Specialist in the Department of Horticulture, was sponsored for her 5th trip to work with colleagues in Japan through a Fellowship from the Japan Society for the Promotion of Science from Sept. 25 – Oct. 15. The collaborative efforts in Japan included a half-day seminar sponsored as part of the biannual meeting of the Japan Society for Horticultural Science, a lecture for the public in Okinawa, and a special training session for rehabilitation staff at the Izumi Hospital, also in Okinawa.

College of Architecture and Urban Studies

The 11th study abroad program in Cuba, "Urban Design and Planning in Cuba," was completed in June. Eighteen participants, including **Professor Nadia Boschi**, joined group leader **Joseph Scarpaci** with the Urban Affairs and Planning department. This is the longest running U.S. program in Cuba. **Dr. Athanasios Moulakis** has been appointed Director of the Center for European Studies and Architecture. He brings a long experience of academic life in a variety of institutional settings and pedagogic traditions, and a broad international background, including active involvement with transnational institutions, state and local authorities, research foundations, and international conferences. Dr. Moulakis comes to the College most recently from the University of Colorado, Boulder, where he was Herbst Professor of Humanities and Professor of Political Science. Moulakis was born in Greece, speaks eight languages, and is a U.S. citizen. Professor of Architecture and Co-Director of Special Programs **Gene Egger** has received the Alumni Award for Excellence in International Programs. During his 30 years at Virginia Tech, Egger has offered a wide range of contributions toward the internationalization of Virginia Tech's curriculum. **Dr. Nadia Boschi**, Professor of Building Construction, served as Rapporteur for the working group convened by the World Health Organization in Bilthoven, the Netherlands last May. The invited group agreed on a set of statements on "The right to healthy indoor air," derived from fundamental principles in the field of human rights, biomedical ethics, and ecological sustainability. Dr. Boschi also conducted research in collaboration with faculty of the Polytechnic of Turin and the Polytechnic of Milan on "Economics, Financing and other Technical Aspects Associated With the Redevelopment/Preservation of Historic Properties." The research was supported by Italian Ministry of Foreign Affairs. A symposium on these themes is being organized for Spring 2001. In July, Dr. Boschi presented a paper titled "Historic Buildings and Healthy Buildings: Pre-construction a Key Phase" at the international conference "Healthy Building 2000." At the same conference, she co-chaired the workshops on "Healthy Building Concepts to Reduce Allergies and Asthma," "Education for Healthier Buildings," "Design of Healthy and Sustainable Buildings," and the Workshop Summary Session "Design Criteria and Policies." **Dr. Humberto Rodríguez-Camilloni**, Professor of Architecture, and **Dr. Mehdi Setareh**, Associate Professor of Architecture, presented the paper,

“Monticello’s Dome: Development of an Integrated Resource for the Study of Thomas Jefferson’s Architecture” at the second European Association for Architectural Education – Architectural Research Centers Consortium Conference on Architectural Research held at the Ecole des Beaux Arts in Paris, France on July 4-8. **Ellen Braaten**, Assistant Professor in the Department of Architecture, and Assistant to the Dean for Special Projects, traveled with three students to the prestigious Artigas Foundation in Gallifa, Spain from May 20th to June 30th to conduct a workshop in ceramics and engage with other artists from around the world. This is the fifth visit she has made at the invitation of the foundation. **Dr. Robert G. Dyck**, Professor of Urban Affairs and Planning, led a People to People Ambassadors delegation of 14 American architects and planners to Prague and Budapest during the period Oct. 6-Oct. 15. Meetings were held with their counterparts in the planning departments of the two cities as well as with housing, transportation, historic preservation officials, and private sector developers.

College of Arts and Sciences

The Writing Center in the Department of English has an online grammar hotline through its Online Writing Lab (OWL). In the past year and a half, OWL reports that it has received questions from all over the world, including Argentina, Australia, Brazil, Bulgaria, Canada, China, Hong Kong, India, Japan, Poland, and South Korea. **Elizabeth Calvera**, Instructor of Spanish and Coordinator of the VT/Ecuador Exchange Program, traveled to Quito, Ecuador in March to review various aspects of the student exchange program set up by the Department of Foreign Languages and Literature with the Universidad San Francisco de Quito six years ago. **Dr. Helen Crawford**, Professor of Psychology, presented several invited papers in May at the European Federation of Psychophysicists in Amsterdam with her colleagues at the University of Virginia and at the University of Virginia’s College at Wise on the neuroimaging of pain and hypnotic analgesia, as well as on volumetric differences in the corpus callosum between low and high attention ability subjects. In May and June, she taught a week-long course on the neurophysiology of pain and hypnotic control of pain to graduate students at the University of La Coruna in La Coruna, Spain. In June, she presented three research posters at the International Brain Mapping conference in San Antonio, Texas. In October, she presented two invited keynote talks at the International Society of Hypnosis meeting in Munich, as well as colloquiums at the Department of Neurology, Technische Universitaet Muenchen, and at the Department of Psychology at the University of Salzburg in Salzburg, Austria. **Dr. Joseph A. Ball** of the Department of Mathematics gave invited lectures on operator theory with applications to control theory at the International Workshop on Operator Theory and Applications at Bordeaux, June 13-16, and at the Mathematical Theory of Networks and Systems (MTNS) international symposium at Perpignan, France, June 19-23. He was also co-organizer of a Special Session on multidimensional systems, scattering and behavior at the MTNS. **Dr. Mark Shimozone**, also of the Department of Mathematics, presented the plenary lecture at the June 2000 Conference on Formal Power Series and Algebraic Combinatorics, at Moscow State University. He spoke on “Modules supported in the nullcone.” **Dr. Jack W. Finney**, Professor and Chair in the Department of Psychology, gave a presentation titled,

“Behavioral prevention of cytomegalovirus infection” at the International Congress of Psychology in Stockholm, Sweden, in July. **Dr. Shoshana Milgram Knapp**, Associate Professor of English, delivered a paper entitled “W. T. Stead, Champion of Women’s Spiritual Independence: The Review of Reviews and the ‘Novel of the Modern Woman’” at an international conference, “Feminist Forerunners: The New Woman in the National and International Periodical Press, 1880 to the 1920s.” The conference was held July 24-26, at Manchester Metropolitan University in Manchester, England. In August, **Professor Beverly Bunch-Lyons** of the History Department, and **Professor April Few** of Human Development presented a co-authored paper at the annual Diversity Within Unity Conference held at Oxford University in Oxford, England. The conference was interdisciplinary, with a heavy focus on history and historical inquiry. The title of the paper presented was: “Exploring Themes of Sexual Exploitation and Violence in the Literary Narratives of Black Women in the United States.” **Professor John Rossi** of the Department of Mathematics gave an invited presentation entitled “Computing invariant subspaces of matrices: An application of classical potential theory” at the 18th Nevanlinna Colloquium in Helsinki, Finland from August 8-12. **Dr. David G. I. Kingston**, University Distinguished Professor in the Chemistry Department, attended the 22nd International Symposium on the Chemistry of Natural Products in Sao Carlos, Brazil, from September 3-8, and gave an invited lecture entitled “Biodiversity Conservation and Drug Discovery In Suriname: Explorations In Nature’s Combinatorial Library” on his work. The conference was sponsored by the International Union of Pure and Applied Chemistry, and is the most important international conference on natural products chemistry. It is held once every two years at different locations around the world. **Dr. Thomas H. Ollendick**, University Distinguished Professor and Director of the Child Study Center in the Department of Psychology, presented the Opening Keynote Address at the European Association of Cognitive and Behaviour Therapies, September 25-29, in Granada, Spain. His address was entitled “Empirically Supported Treatments for Children and Adolescents: Promises and Pitfalls.” He also presented two day-long workshops on the assessment and treatment of phobic and anxiety disorders in children and adolescents and served as a discussant for a symposium on theoretical advances in the conceptualization of psychopathology in children and adolescents. **Dr. Royce Zia**, Professor of Physics, is spending the Fall 2000 semester as a Visiting Professor at the University of Essen in Germany. In addition to collaborative research on statistical physics of non-equilibrium systems, he has given (and will be giving) presentations at universities across Germany, Denmark, Holland, the U.K., France, and Hungary. In early October, **Dr. Jackie Bixler**, Professor of Spanish, attended the International Book Fair in Xalapa, Mexico, at the Universidad Veracruzana. There, she gave a presentation on a book by the dramatist Luisa Josefina Hernández; participated in an homage to dramatist Emilio Carballido, the subject of her book, *Convention and Transgression: The Theatre of Emilio Carballido*; and participated in a panel at on the Spanish translation of her book. **Dr. Robin Panneton Cooper**, Associate Professor of Psychology, gave a talk on “Female Infant-Directed Speech Regulates Attention and Facilitates Language Perception Throughout the First Postnatal Year” on October 20th in Sydney, Australia at the MacArthur

Auditory Research Consortium Sydney at the University of Western Sydney. **David Ehrlich**, Violinist and Artist-in-Residence at the Center for Interdisciplinary Studies, performed three solo recitals in England during the month of October. For the past three years, **Dr. Harold McNair**, Professor of Chemistry, has had a joint research project and graduate student exchange with the University of Messina in Italy. The research project involves using the latest Gas Chromatography, Liquid Chromatography, and Mass Spectroscopy systems to separate, isolate, and identify major components of natural products. To date, six joint research publications, five student poster presentations at international symposia, and two short course books in Italian have been published. In addition, two workshops have been held at the University of Messina. Another workshop is scheduled for June 2001.

College of Business

On October 17, two team members from International Education for Students (IES) visited the Pamplin College of Business. Dr. Ulli Lohrmann, Freiburg Germany, and Mr. John Sunnnygard, former Center Director in London England, led a workshop for Pamplin faculty on methods for achieving greater cultural awareness and assimilation on residential summer study abroad programs. The three-hour workshop involved many of the study abroad program leaders from the College and was offered as a service by IES to Virginia Tech. The workshop also launched faculty toward a new program to be offered in summer 2001 on science, technology, and international financing activities located in London, England. **Dr. Michael K. Badawy**, Professor of Management in the Pamplin College of Business, Northern Virginia MBA Program, has just had a Chinese edition of his book, *Developing Managerial Skills in Engineers and Scientists*, published by Wiley Press. The book is a research-based volume addressing the issues facing technical professionals in making the transition from professional specialties to managerial and executive positions. The book has already been translated into Japanese, Spanish, and Korean. Dr. Don Chance, First Union Professor of Financial Risk Management, taught a four-day course in financial derivatives to investment managers in Luxembourg in October. The course is part of an advanced training program in finance for the Luxembourg investment community.

College of Engineering

Dr. Liviu Librescu, Professor of Engineering Science and Mechanics, received the honorific title of Doctor Honoris Causa of the University "Politehnica" Bucharest, Romania, May 25. In addition, during June he was invited and worked as a Visiting Professor at the Universita' di Roma Tre, Rome, Italy, and gave lectures at both the Universita' di Roma Tre and at the Department of Aeronautics of The School of Engineering of La Sapienza, Rome, Italy. He was invited to lecture at the Institut fuer Allgemeine Mechanik at Aachen University, in Aachen, Germany, and also worked with his German partner to finalize a common work sponsored by NATO. Dr. Librescu contributed a paper at the Fourth International Colloquium on Computation of Shell & Spatial Structures, June 4-7, Crete, Greece, and two papers at the 20th International Congress of Theoretical and Applied Mechanics, August 27-September 2, Chicago. In May, **Joel Nachlas**, Associate Professor of Industrial and Systems Engineering, gave a course in Reliability

Theory to students at the Technical University of Vienna (Austria) and in June, he gave the same course to students at the Ecole Supérieur d'Ingénieur de Nice Sophia Antipolis, near Nice, France. As part of the same trip, he presented a seminar to the Department of Nuclear Engineering at Politecnico di Milano in Milan, Italy. **Dr. Michael Spakovsky** spent the month of June as a visiting professor at the Ecole Polytechnique Fédérale de Lausanne in Lausanne, Switzerland working on various collaborations in the areas of fuel cells and integrated aircraft system synthesis / design optimization. In July, he attended the International Symposium on Efficiency, Costs, Optimization and Simulation of Energy Systems (ECOS'99) in Enschede, The Netherlands, chairing a session on cogeneration and presenting a paper titled "An Integrated Thermo-economic Modeling and Optimization Strategy for Aircraft / Aerospace System Design." He also attended the yearly meeting of the editorial board and scientific committee of the International Journal of Applied Thermodynamics. **Dr. M. W. Hyer**, Professor of Engineering Science and Mechanics, was a plenary lecturer at the 9th U.S.-Japan Conference on Composite Materials held in Mishima, Japan in June. Dr. Hyer was also the U.S. representative of the U.S.-Japan Council on Composite Materials at the conference, and afterwards presented a seminar at the National Aerospace Laboratory in Tokyo. During July, **Michael Alley**, Instructor in the Mechanical Engineering Department, taught a week-long short course on scientific and technical writing to thirty professors, graduate students, and professionals at the Parc de Cientific in Barcelona, Spain. The short course was sponsored by the University of Barcelona. **Dr. Joseph G. Tront** and **Dr. Scott F. Midkiff**, both faculty in the Bradley Department of Electrical and Computer Engineering, presented papers on distance learning at the International Conference on Engineering Education, August 14-18, in Taipei and Tainan, Taiwan, R.O.C. **Dr. Richard M. Goff** and **Dr. Michael H. Gregg**, associate professors in the Division of Engineering Fundamentals, attended the 3rd Workshop on Global Engineering Education (GEE'3) October 18 through October 24 in Aachen, Germany. While there, they visited universities in Switzerland and France to determine the feasibility of integrating international study at an earlier stage in the undergraduate engineering curriculum. **Dr. F. Frank Chen**, Lawrence Professor of Manufacturing Systems Engineering, has been invited by the National Science Council of Taiwan to give distinguished seminars on "Grand Challenges for Manufacturing in the New Millennium" and "Rapid Modeling and Analysis of Manufacturing Systems through Analytical and Hardware-based Simulation Approaches" at National Tsing-Hua University, National Chiao-Tung University, and National Taiwan University of Science and Technology in December 2000.

College of Human Resources and Education

Dr. Mark Sanders, Associate Professor and Program Leader in the Technology Education Program of the Department of Teaching and Learning, presented "Graphic Comm Central: A Global Resource for Print Media Educators" at the Print Media Education 2000 Conference in Dusseldorf, Germany, May 25. In May, **Dr. Jim LaPorte**, Professor of Technology Education, participated as one of six international invitees at the Finland Technology Education Seminar held in Oulu, Finland, in May. LaPorte pre-

sented a paper entitled "Technology Education in the United States: A Critical Examination of the Change Process." In July, Professor LaPorte presented an invited paper titled "Technology Education: from Theory into Practice" at the Chile Technology Education Symposium, held at three locations: La Serena, Santiago, and Concepcion. LaPorte also consulted with the Chilean Ministry of Education and with teacher educators at the University of Playa Ancha in Valparaiso regarding the implementation of technology education programs. **Dr. Rosemary Blieszner**, Professor of Human Development, was one of five invited keynote speakers at the International Conference on Personal Relationships in Brisbane, Queensland, Australia in June. The title of her talk was, "A family is a circle of friends who love you: Circles and cycles of close relationships in old age." While in Brisbane, she gave three media interviews: Australia Broadcasting Corp. Radio, "Life Matters," on family and friend relationships; Australia Broadcasting Corp. Radio, "Early Morning with Helen Richardson," on gerontology topics; and Christine Arnold, *The Advertiser*, "Looking Forward Over 50," on family relationships in middle age. **Dr. Kathleen Stadler**, Assistant Professor and Extension Specialist, Nutrition, presented a paper at the XIXth World Congress of the International Federation for Home Economics (IFHE) held in Accra, Ghana from July 24-29. Her talk was on "Comparing Dominicans' life problems and solutions as identified by agency leaders and village women through key informant interviews and participatory assessments." Dr. Stadler is chair of the Food Security and Nutrition program committee for IFHE and was the IFHE delegate for the College of Human Resources and Education. At the same event, **Barbara Board**, Extension Specialist, Program and Leadership Development, with Virginia Cooperative Extension, presented a workshop on "Using focus groups to understand local food security needs and issues." **Professors Don G. Creamer, Steven M. Janosik, and M. David Alexander** conducted a week-long International Conference on Quality in Higher Education at Mansfield College, Oxford University during July and August. Participants included college presidents, vice presidents, and other administrators. Topics focused on international perspectives on quality assurance in colleges and universities. **Dr. Marcie Boucouvalas** presented a paper at the plenary session of the International Conference of the History of Adult Education during August at the University of Pecs, Hungary entitled, "Adult Education and the Human Rights Movement: Toward a global research agenda for the history of adult education." **Dr. Meg Weigel** spent the summer in Ecuador, supervising graduate and undergraduate research, and giving an invited graduated course in Nutritional Epidemiology in Spanish to advanced graduate students in the College of Life Sciences, Universidad San Francisco de Quito. She also conducted research in an on-going project at the Hospital Municipal Patronato San Jose in Quito, Ecuador, now in its final year, which has been following 850 pregnant women to identify the dietary, nutritional and other predictors of suboptimal maternal and perinatal outcomes.

College of Natural Resources

Every five years the International Union of Forestry Research Organizations (IUFRO) holds a World Congress. Virginia Tech's College of Natural Resources was well represented at the 21st IUFRO World Congress held August 7-12, in Kuala Lumpur, Malaysia. **Dr. Robert L. Youngs**, Professor Emeritus of Forestry

and Forest Products, was involved in organizing several of the sub-plenary sessions, chairing one of them, organizing the general arrangement of sessions in forest products, and presenting a paper on the history of forest products research. **Dr. James E. Johnson**, Associate Dean for Outreach in the College of Natural Resources and Professor of Forestry, moderated a technical session and presented a paper entitled "The Forest Bank – An Innovative Program to Manage Forests and Protect Biological Resources on Private Land." **Dr. Bob Smith**, Associate Professor in the Department of Wood Science and Forest Products, presented two papers: "The Development of an Effective Marketing Communication Network for Successful Technology Transfer: An Empirical Study Based on the Diffusion of Portable Timber Bridge Technology;" and "Identifying and Evaluating the Educational and Training Needs in the Disciplines of Forest Products and Wood Science." **Jim Chamberlain**, a Ph.D. candidate in the Department of Wood Science and Forest Products, presented his research in a sub-plenary meeting on non-wood forest products. **Dr. David Klemperer**, Professor in the Department of Forestry, presented a paper, "Does Discounted Cash Flow Exaggerate the Advantage of Borrowing?"; served as a poster judge; and moderated a session on "Forest Management Planning and Managerial Economics." **Dr. Scott M. Salom**, Associate Professor in the Department of Entomology with a courtesy appointment in the Department of Forestry, gave an invited paper entitled "Hemlock Woolly Adelgid in the United States: Status of Ongoing Biological Control Efforts" and co-organized and co-moderated a session on "Insects Affecting Reforestation." As Deputy Coordinator for IUFRO, **Dr. Harold E. Burkhardt**, University Distinguished Professor and Head of the Department of Forestry, was involved in the organization of technical and business sessions at the World Congress.

College of Veterinary Medicine

Dr. Steven D. Holladay presented a talk on "Developmental immunotoxicity of dioxins" at the two-day 7th Annual Meeting of the Japanese Immunotoxicology Society, Chiba, Japan on September 25.

The University Abroad is prepared by the Faculty and Staff of the Office of International Research and Development (OIRD) at Virginia Tech, Outreach Division of the Office of the University Provost.

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The Office of International Research and Development would like to thank all those individuals who submitted information to the University Abroad Newsletter. Regrettably, some submissions could not be included due to space constraints.

Electrical and Computer Engineering Group Fosters World-wide Collaborative Research

The Mobile & Portable Radio Research Group (MPRG) is fostering collaborative research efforts with other universities and institutions worldwide because of international developments in the wireless communications field. An essential aspect of this collaboration is the exchange of students. In 1998, MPRG established a student intern exchange program with Dresden University of Technology. The first student, Michael Hosemann, came to MPRG and worked with Dr. Jeffrey Reed on software radio research for a year-long internship. Within the year, a student from Virginia Tech will travel to Dresden University. This kind of international experience is an excellent way to enhance a technical education. Students today will be developing the policies and technology of the future.



Perspectives *continued from page 1*

one of the top 30 research universities, there must be greater participation by faculty in international collaborative research and graduate education. This means our proposals must be prepared with an eye for research-oriented projects and must seek donor support. Without outside resources and restructuring, international programs at Virginia Tech will continue to play a less than ideal role in the international arena.

Current leadership at OIRD will continue to focus on making Virginia Tech a highly visible and formidable player in its quest for a reputation that is both excellent and a source of pride to its stakeholders in the commonwealth, the nation, and the world.

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Greenhouse Gas *continued from page 1*

in greenhouse gas emissions (3% of the world total), and although its per capita emissions are low, India has the second highest rate of increase in emissions. Because 48% of India's greenhouse emissions come from coal-fired electrical generation, USAID chose to focus upon this sector to achieve a high, cost-effective impact.

Louis Berger Group, the international consulting and engineering firm which won the contract, chose Virginia Tech to provide technical assistance on the project. Virginia Tech was selected in large part because of its relevant centers: the Center for Coal and Minerals Processing, the Center for Energy and the Global Environment, Energy Management Institute, the Virginia Center for Coal and Energy Research, and the Waste Policy Institute.

Drs. Rahman and Willingham, as part of the Climate Change/GEP launch activities, carried out training needs assessments at the Lal Bahadur Shastri National Academy of Administration – a government training academy for senior Indian civil servants; the Confederation of Indian Industries – an industry organization whose membership includes many large power companies; and Development Alternatives – a non-governmental organization that promotes small-scale decentralized energy in rural areas of India.

GEP is an opportunity for the university to collaborate with government, the private sector, and non-governmental organizations on problems of mutual interest to the United States and India, and is a privilege and a responsibility that will enhance Virginia Tech's reputation at home and abroad.

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