



College of Natural Resources and Environment  
[www.cnre.vt.edu](http://www.cnre.vt.edu)



# Faculty and Program Directory

April 2011

## COLLEGE OF NATURAL RESOURCES AND ENVIRONMENT

---

- Fish and Wildlife Conservation • Forest Resources and Environmental Conservation • Geography • Wood Science and Forest Products •
  - College of Natural Resources and Environment National Capital Region • Natural Resources Distance Learning Consortium •
    - Center for Environmental Applications of Remote Sensing • Center for Forest Products Business •
      - Center for Unit Load Design • Conservation Management Institute • Forest Modeling Research Cooperative •
  - Forest Productivity Cooperative • Forest Operations and Business Research Cooperative • Freshwater Mollusk Conservation Center •
    - Horseshoe Crab Research Center • National Marine Fisheries Service Recruiting, Training, and Research Unit •
      - National Science Foundation Center for Advanced Forestry Systems • Reynolds Homestead Forest Resources Research Center •
- Sustainable Engineered Materials Institute • USDA Forest Service and Natural Resources Conservation Service National Agroforestry Center •
  - USDA Forest Service Southern Research Station: Center for Aquatic Technology Transfer, Forest Watershed Science Research Work Unit, Utilization of Southern Forest Resources Research Work Unit • USGS Patuxent Wildlife Research Center •
- USGS Virginia Cooperative Fish and Wildlife Research Unit • Virginia Water Resources Research Center • Wood-Based Composites Center •

# Faculty and Program Directory

## College of Natural Resources and Environment Leadership Team



**WINISTORFER, PAUL M.**  
Dean; Ph.D. (Iowa State)



**ALAVALAPATI, JANAKI R. R.**  
Head, Department of Forest Resources and  
Environmental Conservation;  
Ph.D. (University of Alberta, Canada)



**CARSTENSEN, LAURENCE W.**  
Head, Department of Geography;  
Ph.D. (North Carolina-Chapel Hill)



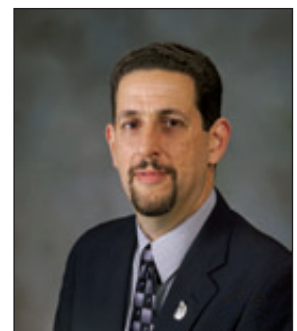
**DAVIS, LYNN M.**  
Director of Communications;  
M.B.A. (Averett University)



**GOODELL, BARRY S.**  
Head, Department of Wood Science and  
Forest Products; Ph.D. (Oregon)



**GUILLIAMS, LANE**  
Director of Alumni Relations;  
M.A. (Oklahoma)



**HALLERMAN, ERIC M.**  
Head, Department of Fish and Wildlife  
Conservation; Ph.D. (Auburn)



**KLOPFER, SCOTT**  
Executive Director, Conservation Management  
Institute; M.S. (Virginia Tech)



**MOLLENHAUER, ROBERT (BOB) J.**  
Director of Development;  
M.S. (Boston University)



**MORTIMER, MICHAEL J.**  
Director, National Capital Region Natural  
Resources Programs; Ph.D. (Montana)



**OLSON, THOMAS E.**  
Assistant Dean, Finance, Human  
Resources, and Research;  
M.I.B.S. (South Carolina)



**SCHOENHOLTZ, STEPHEN H.**  
Director, Virginia Water Resources Research  
Center; Ph.D. (Virginia Tech)



**SMITH, ROBERT (BOB) L.**  
Associate Dean, Engagement;  
Ph.D. (Virginia Tech)



**STAUFFER, DEAN F.**  
Associate Dean, Academic Programs;  
Ph.D. (Idaho)



**WEBER, LON A.**  
Director of Information Technology;  
B.S. (Colorado State)



## Academic Programs Office

138 Cheatham Hall (0324)  
Virginia Tech, Blacksburg, VA 24061  
Phone: 540.231.5482  
Fax: 540.231.3485  
E-mail: [cnre\\_students@vt.edu](mailto:cnre_students@vt.edu)  
Website: [www.students.cnre.vt.edu](http://www.students.cnre.vt.edu)

### **STAUFFER, DEAN F.**

Associate Dean, Academic Programs;  
Ph.D. (Idaho)



### **LESLIE, SUSAN S. (SUZIE)**

Coordinator of Undergraduate Advising;  
M.S. (Virginia Tech)



### **BARKER, CATHERINE L.**

Student Services Coordinator  
B.A. (St. Catherine's)



### **QUESINBERRY, TERESA O.**

Academic Programs Support Specialist  
A.A.S. (Wytheville)

---

## Continuing and Professional Education

702 University City Blvd. (0364)  
Virginia Tech, Blacksburg, VA 24061  
Phone for Holly Williams: 540.231.2188  
Phone for Alissa VanDeventer: 540.231.2014  
Fax: 540.231.9886  
Website: [www.cpe.vt.edu](http://www.cpe.vt.edu)



### **WILLIAMS, HOLLY M.**

Assistant Director; M.S. (Eastern Kentucky)



### **VANDEVENTER, ALISSA**

Project Manager; M.A. (Georgetown)



## Information Technology

216 Cheatham Hall (0324)  
Virginia Tech, Blacksburg, VA 24061  
Phone: 540.231.9599 (CNRE Help Desk)  
Fax: 540.231.7664  
E-mail: [CNREHelpDesk@vt.edu](mailto:CNREHelpDesk@vt.edu)  
Website: [www.it.cnre.vt.edu](http://www.it.cnre.vt.edu)

### **WEBER, LON A.**

Director of Information Technology;  
B.S. (Colorado State)



### **DENT, CHAD E.**

CNRE Help Desk Technician



### **FULLER, LES G.**

System Administrator;  
M.S. (Michigan Technological University)



### **PFEIL, WILL A.**

Web and Media Specialist;  
B.A. (Virginia Tech)

## College Librarian

4005 Newman Library (0434)  
Virginia Tech, Blacksburg, VA 24061  
Phone: 540.231.0495, Fax: 540.231.7808

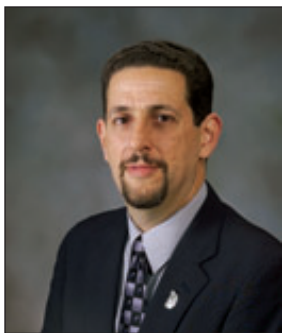
315B Cheatham Hall (0324)  
Virginia Tech, Blacksburg, VA 24061  
Phone: 540.231.0419  
Fax: 540.231.7664  
Website: [www.lib.vt.edu](http://www.lib.vt.edu)



### **GOLDBECK, KYRILLE (KIRI)**

Librarian and Assistant Professor;  
M.L.S. (Maryland-College Park)

# Fish and Wildlife Conservation



**HALLERMAN, ERIC M.**

Professor and Head, Department of Fish and Wildlife Conservation;  
Ph.D. (Auburn)

Special Interests: Genetics of fish and wildlife species; genetic improvement of aquaculture stocks; aquaculture biotechnology and related public policy; genetics education; management of horseshoe crabs

Departmental Office:  
100 Cheatham Hall (0321)  
Virginia Tech, Blacksburg, VA 24061  
Phone: 540.231.5573  
Fax: 540.231.7580  
E-mail: [fishwild@vt.edu](mailto:fishwild@vt.edu)  
Website: [www.fishwild.vt.edu](http://www.fishwild.vt.edu)



**ALEXANDER, KATHLEEN A.**

Associate Professor of Wildlife; Ph.D.  
(California-Davis)

Special Interests: Wildlife diseases with associated ecological and human dimensions



**ANGERMEIER, PAUL L.**

Professor of Fisheries; Assistant Unit Leader,  
USGS Virginia Cooperative Fish and Wildlife  
Research Unit; Ph.D. (Illinois)

Special Interests: Stream fish communities;  
assessing quality of aquatic resources;  
conservation of aquatic systems



**BERKSON, JAMES (JIM) M.**

Associate Professor of Fisheries; Unit Leader,  
National Marine Fisheries Service Recruiting,  
Training, and Research Unit at Virginia Tech;  
Ph.D. (Montana State)

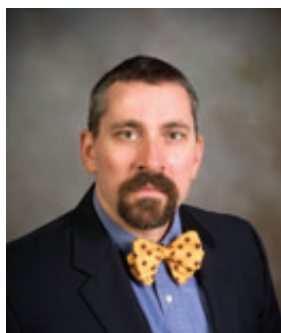
Special Interests: Population dynamics; modeling  
and management of marine resources; fisheries  
stock assessment; National Marine Fisheries  
Service research and management



**DOLLOFF, C. ANDREW**

Associate Professor of Fisheries; Team Leader,  
USFS Southern Research Station Forest  
Watershed Science Research Work Unit; Ph.D.  
(Montana State)

Special Interests: Stream and fish ecology;  
watershed and riparian area management; aquatic  
sampling and monitoring; habitat restoration



**FORD, W. MARK**

Unit Leader, USGS Virginia Cooperative Fish and  
Wildlife Research Unit; Ph.D. (Georgia)

Special Interests: Wildlife habitat interactions;  
white-tailed deer management; ecology and  
management of bats; non-volant small mammals  
and woodland salamanders, and high-elevation/  
relict forest management and restoration in the  
Appalachians



**FRASER, JAMES D.**

Professor of Wildlife; Ph.D. (Minnesota)

Special Interests: Endangered species  
management; conservation biology



**FRIMPONG, EMMANUEL A.**

Assistant Professor of Fisheries; Ph.D. (Purdue)

Special Interests: Ecology of fishes in fluvial landscapes; life history-based community and species-habitat modeling; theory and applications of aquatic bioassessment and monitoring; large-scale freshwater ecosystem conservation planning and policy



**HAAS, CAROLA A.**

Associate Professor of Wildlife Ecology; Ph.D. (Cornell)

Special Interests: Behavioral and population ecology; birds, reptiles, and amphibians in production agriculture and forestry systems; landscape effects on reproduction and dispersal



**HOPKINS, WILLIAM A.**

Associate Professor of Wildlife; Ph.D. (South Carolina)

Special Interests: Wildlife ecotoxicology and physiological ecology



**JIAO, YAN**

Assistant Professor of Fisheries; Ph.D. (Memorial University of Newfoundland, Canada)

Special Interests: Population dynamics; stock assessment; fisheries management; fishery ecology; statistical computing



**KARPANTY, SARAH M.**

Assistant Professor of Wildlife; Ph.D. (SUNY-Stony Brook)

Special Interests: Primate and avian behavioral ecology; multiple predator-multiple prey interactions, indirect effects in wildlife management; tropical forest restoration; endangered species management



**KELLY, MARCELLA J.**

Associate Professor of Wildlife; Ph.D. (California-Davis)

Special Interests: Ecology and population dynamics of mammal species; tropical ecology and conservation; predator ecology and conservation



**MCMULLIN, STEVE L.**

Associate Department Head; Associate Professor of Fisheries and Wildlife; Director, College of Natural Resources and Environment Leadership Institute; Ph.D. (Virginia Tech)

Special Interests: Leadership and administration in natural resource agencies; public involvement in resource decision making; human dimensions of fisheries and wildlife



**MURPHY, BRIAN R.**

Professor of Fisheries; Director, Conservation Management Institute; Ph.D. (Virginia Tech)

Special Interests: Fisheries management; reservoir ecology; international conservation; natural resource education



**ORTH, DONALD J.**

Thomas H. Jones Professor of Fisheries and Wildlife Sciences; Ph.D. (Oklahoma State)

Special Interests: Fisheries management; stream fish ecology; bioethics; population dynamics; instream flow and habitat assessment



**PARKHURST, JAMES A.**

Associate Professor of Wildlife; Extension Specialist; Ph.D. (Pennsylvania State)

Special Interests: Wildlife damage and human-wildlife conflict management; wetlands and wetland wildlife ecology; habitat management and manipulation



**STAUFFER, DEAN F.**

Associate Dean, Academic Programs; Professor of Wildlife; Ph.D. (Idaho)

Special Interests: Modeling wildlife-habitat relationships; habitat analysis; habitat assessment and evaluation

Please visit the Department of Fish and Wildlife Conservation's website, [www.fishwild.vt.edu](http://www.fishwild.vt.edu), for more information about programs and personnel.



Departmental Office:  
 313 Cheatham Hall (0324)  
 Virginia Tech, Blacksburg, VA 24061  
 Phone: 540.231.3698  
 Fax: 540.231.7580  
 E-mail: [frec@vt.edu](mailto:frec@vt.edu)  
 Website: [www.frec.vt.edu](http://www.frec.vt.edu)

**ALAVALAPATI, JANAKI R. R.**

Professor and Head, Department of Forest Resources and Environmental Conservation; Ph.D. (University of Alberta, Canada)

Special Interests: Exploring market solutions for natural resources, energy, and environmental problems and issues at local, regional, and international levels



**AMACHER, GREGORY S.**

Julian N. Cheatham Professor of Forestry, Natural Resources Economics; Ph.D. (Michigan)

Special Interests: Forest resource and environmental economics; international forest development; public finance and forest policy



**AMATEIS, RALPH L.**

Senior Research Associate; M.B.A. (Virginia Tech)

Special Interests: Growth and yield modeling; mathematical and statistical techniques applied to forestry problems; computer applications



**AUST, W. MICHAEL**

Professor of Forest Hydrology; Ph.D. (North Carolina State)

Special Interests: Effects of forest operations on hydrologic processes, water quality, and site productivity; forested wetland and riparian zone management and restoration; effectiveness of forestry BMPs for protection of water quality



**BARRETT, SCOTT M.**

Extension Associate; M.S. (Virginia Tech)

Special Interests: Logger education and the impacts of education on logging safety, productivity, and the implementation of sustainable forestry practices



**BLINN, CHRISTINE E.**

Research Scientist; Ph.D. (Virginia Tech)

Special Interests: Remote sensing; geographic information systems (GIS); statistical applications for natural resource inventory and management



**BOLDING, M. CHAD**

Assistant Professor, Forest Operations/Engineering; Ph.D. (Oregon State)

Special Interests: Forest operations, harvesting, wood supply chain efficiency, and biomass utilization



**BRUNNER, AMY M.**

Associate Professor of Molecular Genetics; Ph.D. (Oregon State)

Special Interests: Genomics of tree development, ecophysiology and adaptation; molecular genetics of tree maturation, flowering, and crown architecture; tree biotechnology



**BURKHART, HAROLD E.**

University Distinguished Professor, Forest Biometrics; Ph.D. (Georgia)

Special Interests: Modeling forest stand dynamics, growth and yield; applying quantitative analysis techniques to forestry problems



**BUSBY, GWENLYN**

Assistant Professor of Forest Economics, Policy and Management; Ph.D. (Oregon State)

Special Interests: Natural resource economics; incentive-based policy design; combinatorial optimization



**COPENHEAVER, CAROLYN A.**

Associate Professor of Forest Ecology; Ph.D. (Pennsylvania State)

Special Interests: Forest ecology; dendrochronology; land-use history; forest stand dynamics



**DAY, SUSAN D.**

Assistant Professor of Urban Forestry; Ph.D. (Virginia Tech)

Special Interests: Urban rhizosphere ecology; soil rehabilitation; storm water management; sustainable urban landscapes



**FOX, THOMAS R.**

Professor of Forestry; Co-Director, NCSU/VPI&SU Forest Productivity Cooperative; Virginia Tech Site Director, NSF Center for Advanced Forestry Systems; Ph.D. (Florida)

Special Interests: Forest fertilization and tree nutrition; silviculture of Appalachian hardwoods; intensive silviculture of southern pine plantation; forest soils; rhizosphere chemistry; environmental sustainability of intensive forest management; ecophysiology of managed forest stands



**GAGNON, JENNIFER L.**

Extension Associate; M.S. (Florida)

Special Interests: Landowner education; landowner cooperatives; longleaf and shortleaf pine restoration; longleaf pine regeneration; uneven-aged management



**HOCKETT, KAREN S.**

Visiting Assistant Professor of Natural Resource Recreation; Ph.D. (Virginia Tech)

Special Interests: Developing and evaluating methods to reduce visitor impacts in natural areas; evaluating environmental interpretation and messaging in parks; identifying and promoting factors that lead to active natural resource stewardship; managing human-wildlife interactions in protected areas; visitor evaluations of natural resource and social setting conditions in parks



**HOLLIDAY, JASON A.**

Assistant Professor of Forest Genetics and Biotechnology; Ph.D. (University of British Columbia, Canada)

Special Interests: Climatic adaptation in widely distributed tree species; transcriptional responses to abiotic stress; genotype-phenotype association studies; conservation genetics; genome-enabled breeding; adaptation of tree populations to climate change; landscape genomics



**HULL, R. BRUCE**

Professor, Social Ecology; Ph.D. (Virginia Tech)

Special Interests: Collaborative, integrated, innovative conservation strategies that heal forests fractured by urbanization and globalization; conflict resolution of contested natural resource dilemmas; sustainability; engagement with civic groups



**MARION, JEFFREY L.**

Adjunct Professor of Natural Resource Recreation; Unit Leader, USGS Patuxent Wildlife Research Center; Ph.D. (Minnesota)

Special Interests: Recreation resources management; recreation ecology understanding; monitoring and managing visitor impacts; park and wilderness management; ecotourism management



**MCGEE, JOHN A.**

Associate Professor, Geospatial Extension Specialist; Ph.D. (Massachusetts-Amherst)

Special Interests: Natural resource management; geospatial applications; technology transfer



**MCGUIRE, KEVIN J.**

Associate Director, Virginia Water Resources Research Center; Research Assistant Professor of Forest Hydrology; Ph.D. (Oregon State)

Special Interests: Watershed, hill slope, and forest hydrology; runoff generation processes; tracer and isotope applications in hydrology; land use and climate change effects on watershed processes and water quality; forest watershed management; interactions between hydrology and biogeochemistry



**MCKEE, JENNIFER K.**

Geospatial Project Developer, Virginia Geospatial Extension Program; M.F. (Virginia Tech)

Special Interests: Geospatial applications; urban forestry; natural resource management



**MUNSELL, JOHN F.**

Assistant Professor of Human Dimensions and Forest Management; Extension Specialist; Ph.D. (SUNY-ESF)

Special Interests: Forest and water quality management; private forest stewardship; collaborative conservation; integrated natural resources problem solving



**PEER, KYLE R.**

Superintendent of the Reynolds Homestead Forest Resources Research Center; Research Associate; M.S. (Maine)

Special Interests: Vegetative propagation; clonal forestry; nursery and greenhouse production; tree breeding



**PRISLEY, STEPHEN P.**

Associate Professor of Forest Inventory and Geographic Information Systems; Ph.D. (Virginia Tech)

Special Interests: Quantitative and spatial analyses of forest resources for strategic and tactical forest management planning, including modeling of forest carbon inventories; inventory projection for wood supply planning; spatially-constrained harvest scheduling



**PRYSBY, MICHELLE D.**

Virginia Master Naturalist Program Coordinator; Extension Associate; M.S. (Minnesota)

Special Interests: Citizen science; long-term ecological monitoring; monarch butterfly ecology; science education



**RADTKE, PHILIP J.**

Associate Professor of Forest Measurements;  
Ph.D. (Minnesota)

Special Interests: Assessment and modeling of forest resources; evaluating models used in forestry and ecology; acquisition, management and analysis of data; improving access to growth and yield models



**SCHOENHOLTZ, STEPHEN H.**

Director, Virginia Water Resources Research Center; Professor of Forest Hydrology and Soils; Ph.D. (Virginia Tech)

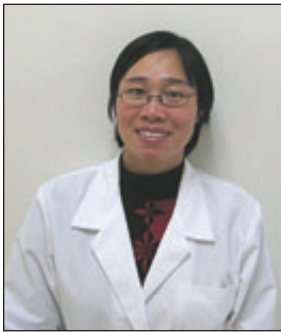
Special Interests: Management of soil and water resources; restoration of degraded ecosystems; biogeochemistry



**SEILER, JOHN R.**

Alumni Distinguished Professor, Forest Biology; Ph.D. (Virginia Tech)

Special Interests: Environmental stress effects on woody plant physiology, including water and pollutant stresses; physiological responses to silvicultural treatments; carbon sequestration



**SHENG, XIAOYAN**

Research Associate; Laboratory Manager; M.S. (Saskatchewan and Hunan Agriculture)

Special Interests: Functional genomics in forestry; forest tree biotechnology; vegetative propagation; clonal forestry; nursery and greenhouse production; tree breeding



**STERN, MARC J.**

Assistant Professor of Natural Resources Education and Communication; Ph.D. (Yale)

Special Interests: Human dimensions of natural resource policy and management; environmental communications; protected areas management; international conservation; natural resource management effectiveness; attitudes versus actions; public responses to natural resource management; evaluation of environmental education, environmental interpretation, and other outreach programs; research methods



**STRAHM, BRIAN D.**

Assistant Professor of Forest Soils and Ecology; Ph.D. (Washington)

Special Interests: Forest soils; ecological restoration; carbon and nutrient cycling; biogeochemistry; ecosystem ecology; reforestation; soil-plant-atmosphere interactions; sustainability; chemistry of soil interfaces; effects of land use and global change on soil properties, processes, and function



**SULLIVAN, JAY**

Professor of Forest and Resource Economics; Ph.D. (California-Berkeley)

Special Interests: Forest resource economics; regional economic analysis; ecosystem/sustainable forest management



**THOMAS, VALERIE A.**

Assistant Professor of Forest Remote Sensing; Ph.D. (Queen's University, Canada)

Special Interests: Remote sensing of forest canopy structure and function using lidar and hyperspectral technology; forest carbon exchange; forest health; species distribution



**WISEMAN, P. ERIC**

Assistant Professor of Urban Forestry; Extension Specialist; Ph.D. (Clemson)

Special Interests: Landscape tree establishment and maintenance; woody plant stress physiology; urban soils; arborist training and certification



**WYNNE, RANDOLPH H.**

Professor of Forest Remote Sensing; Co-Director, Center for Environmental Applications of Remote Sensing at Virginia Tech; Associate Director, Conservation Management Institute; Ph.D. (Wisconsin-Madison)

Special Interests: Applications of remote sensing to forestry; natural resource management; ecological modeling; earth system science



**ZEDAKER, SHEPARD M.**

Professor of Silviculture and Forest Ecology; Ph.D. (Oregon State)

Special Interests: Regeneration ecology; chemical silviculture; invasive/exotic vegetation management; wildland fire ecology and protection

Please visit the Department of Forest Resources and Environmental Conservation's website, [www.frec.vt.edu](http://www.frec.vt.edu), for more information about programs and personnel.



Departmental Office:  
 115 Major Williams Hall (0115)  
 Virginia Tech, Blacksburg, VA 24061  
 Phone: 540.231.7557  
 Fax: 540.231.2089  
 E-mail: [geography@vt.edu](mailto:geography@vt.edu)  
 Website: [www.geography.vt.edu](http://www.geography.vt.edu)

**CARSTENSEN, LAURENCE W.**

Professor and Head, Department of Geography; Ph.D. (North Carolina-Chapel Hill)

Special Interests: Geographic information systems (GIS) and wireless telecommunications modeling; unmanned vehicle navigation; GIS uncertainty; spatial decision-support in GIS



**BOYER, JOHN D.**

Instructor of Geography; M.S. (Virginia Tech)

Special Interests: World regions; viticulture; geography of wine



**CAMPBELL, JAMES B.**

Professor of Geography; Co-Director, Center for Environmental Applications of Remote Sensing; Associate Director, Conservation Management Institute; Ph.D. (Kansas)

Special Interests: Remote sensing; soils and geomorphology; quantitative methods



**CARROLL, DAVID**

Instructor of Geography; M.S. (Mississippi State)

Special Interests: Meteorology; forecasting; severe weather



**KENNEDY, LISA M.**

Associate Professor of Geography; Ph.D. (Tennessee)

Special Interests: Quaternary paleoenvironments; dendrochronology; vegetation dynamics



**KOLIVRAS, KORINE N.**

Assistant Professor of Geography; Ph.D. (Arizona)

Special Interests: Medical geography; climate and health; climatology



**OLIVER, ROBERT**

Visiting Assistant Professor of Geography; Ph.D. (Queen's University, Canada)

Special Interests: Geography of sport; public spaces; urban-political geography; historical-cultural geography



**RESLER, LYNN M.**

Associate Professor of Geography; Ph.D.  
(Texas State)

Special Interests: Biogeography; alpine treeline;  
mountain environments; field methods; digital  
image analysis



**SFORZA, PETER M.**

Director, Center for Geospatial Information  
Technology; Research Scientist; M.S. (Virginia  
Tech)

Special Interests: Remote sensing; geospatial  
informatics; biosecurity; epidemiology; scientific  
visualization; 3D city models; virtual reality  
environments; weather and climate

Please visit the Department of Geography's website,  
[www.geography.vt.edu](http://www.geography.vt.edu), for more information about programs and personnel.



*The Department of*  
**Wood Science & Forest Products**  
*at Virginia Tech*



Departmental Office:  
 230 Cheatham Hall (0323)  
 Virginia Tech, Blacksburg, VA 24061  
 Phone: 540.231.8853  
 Fax: 540.231.8176  
 E-mail: [vtwood@vt.edu](mailto:vtwood@vt.edu)  
 Website: [www.woodscience.vt.edu](http://www.woodscience.vt.edu)

**GOODELL, BARRY S.**

Professor and Head, Department of Wood Science and Forest Products; Ph.D. (Oregon)

Special Interests: Quantitative wood anatomy and microscopy; micro-mechanics; video microscopy for strain measurement



**ARAMAN, PHILIP A.**

Adjunct Senior Research Scientist; Project Team Leader, USDA Forest Service Southern Research Station Utilization of Southern Forest Resources Research Work Unit; M.S. (Virginia Tech)

Special Interests: Rough mill cut-up operations; sawmill processing; scanning technologies and advanced wood processing; wood recovery, reuse, and recycling; international trade



**BOND, BRIAN H.**

Associate Professor of Wood Science and Forest Products; Extension Specialist; Ph.D. (Virginia Tech)

Special Interests: Sawmill processing; lumber drying; wood identification; wood performance in manufacturing



**BUEHLMANN, URS**

Associate Professor of Wood Science and Forest Products; Extension Specialist; Ph.D. (Virginia Tech)

Special Interests: Secondary wood processing; manufacturing systems; lean manufacturing; manufacturing management; globalization; company competitiveness; wood recycling



**BUSH, ROBERT J.**

Professor of Forest Products Marketing; Ph.D. (Virginia Tech)

Special Interests: Measurement of customer perceptions and needs; competitive strategy; capital budgeting and decision making; structural characteristics of wood-based industry; forest products marketing; forest products management



**EDGAR, KEVIN J.**

Professor of Biomaterials; Director, ICTAS Bio-Based Materials Center; Ph.D. (Duke)

Special Interests: Cellulose esterification; polysaccharide modification; structure-property relationships in polysaccharides; biomedical applications of polysaccharides; development of drug delivery systems based on novel polymers; carbohydrate chemistry



**FRAZIER, CHARLES E.**

Thomas M. Brooks Professor of Wood Science and Forest Products; Director, Wood-Based Composites Center; Ph.D. (Virginia Tech)

Special Interests: Wood adhesion; characterization of the wood/adhesive interphase; wood rheology; thermoplastic and thermosetting adhesives for wood; fracture testing of bonded wood



**HAMMETT, A. L. (TOM)**

Professor of Forest Products Marketing; Associate Director, Conservation Management Institute; Ph.D. (Georgia)

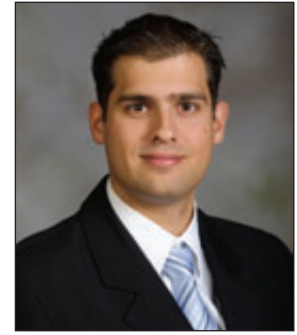
Special Interests: International trade; non-timber forest products utilization and marketing; forest enterprise development; forest-based economic development; forest products marketing; certified forest products; niche markets



**HINDMAN, DANIEL P.**

Associate Professor of Wood Science and Forest Products; Ph.D. (Pennsylvania State)

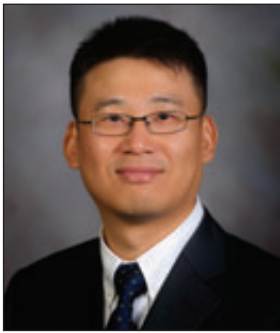
Special Interests: Wood building design; mechanical properties of wood; moisture movement through buildings; stability of wood I-joists; torsional stiffness of wood members



**HORVATH, LASZLO**

Assistant Professor of Practice; Ph.D. (North Carolina State)

Special Interests: Process optimization in packaging; computer modeling of the mechanical performance; structural design of wooden structures; biomaterial characterization; life cycle analysis; packaging engineering



**KIM, YOUNG TECK**

Assistant Professor of Practice; Ph.D. (Clemson)

Special Interests: Food packaging; development of sustainable (rigid/flexible) packaging; analytical packaging chemistry; pharmaceutical/nutraceutical packaging; smart packaging (quality indicator system); development of lab on a chip using chemiluminescence



**KLINE, D. EARL**

Professor of Industrial Engineering; Ph.D. (Texas A&M)

Special Interests: Automatic lumber defect detection systems; process automation and process control; industrial systems engineering; computer applications in wood products manufacturing; wood industry management; multiple-senor machine vision systems; automatic color sorting of lumber



**LOFERSKI, JOSEPH R.**

Professor of Wood Mechanics; Ph.D. (Virginia Tech)

Special Interests: Wood engineering and structural design procedures; performance of wood and wood composites in buildings; moisture problems and wood deterioration in buildings; wood flooring; fasteners and connections; product design and development; preservation of historic wood buildings



**QUESADA, HENRY**

Assistant Professor of Wood Science and Forest Products; Ph.D. (Purdue)

Special Interests: Business process management; manufacturing systems; lean supply chain management; automation of manufacturing systems



**RENNECKAR, SCOTT**

Assistant Professor of Wood Science and Forest Products; Ph.D. (Virginia Tech)

Special Interests: Biomimetic (bottom-up) composites; wood plastic composites; novel processing methods for biomass; applications of nanotechnology to traditional wood-based composites



**ROMAN, MAREN**

Associate Professor of Wood Science and Forest Products; Ph.D. (SUNY-ESF)

Special Interests: Chiral and self-assembly properties of cellulose; molecular organization and interactions of polymers in wood; interactions of natural and synthetic polymers with native cellulose surfaces; cellulose reinforced polymer composites and nanocomposites; isolation and utilization of wood components



**SMITH, ROBERT (BOB) L.**

Associate Dean, Engagement; Professor of Forest Products Marketing; Director, Center for Forest Products Business; Ph.D. (Virginia Tech)

Special Interests: Forest products marketing; industrial marketing; personal selling; sales management; forest products management; wood preservation; wood products industry studies



**WINISTORFER, PAUL M.**

Dean; Professor of Wood Science and Forest Products; Ph.D. (Iowa State)

Special Interests: Wood composites design, manufacture, and performance; wood anatomy; wood performance in use; education in wood science and forest products



**ZINK-SHARP, AUDREY**

Professor and Associate Department Head, Wood Science and Forest Products; Ph.D. (SUNY-ESF)

Special Interests: Quantitative wood anatomy and microscopy; micro-mechanics; video microscopy for strain measurement

Please visit the Department of Wood Science and Forest Products' website, [www.woodscience.vt.edu](http://www.woodscience.vt.edu), for more information about programs and personnel.



Main Office:  
 210 Cheatham Hall (0324)  
 Virginia Tech, Blacksburg, VA 24061  
 Phone: 540.231.8031  
 Fax: 540.231.6673  
 E-mail: [water@vt.edu](mailto:water@vt.edu)  
 Website: [www.vwrrc.vt.edu](http://www.vwrrc.vt.edu)

**SCHOENHOLTZ, STEPHEN H.**

Director, Virginia Water Resources Research Center;  
 Professor of Forest Hydrology and Soils; Ph.D. (Virginia Tech)

Special Interests: Management of soil and water resources;  
 restoration of degraded ecosystems; biogeochemistry



**CHRISTOPHER, SHEILA**

Research Scientist; Ph.D. (SUNY-ESF)

Special Interests: Watershed biogeochemistry and hydrology in forests; carbon and nitrogen cycling; climate and land use change effects on nutrient cycling and hydrologic nutrient transport



**FAY, PATRICK**

Communications Manager; M.B.A. (Liberty)

Special Interests: Marketing and public relations planning and implementation; social network marketing; information campaigns; news writing; traditional and new media communications



**MCGUIRE, KEVIN J.**

Associate Director; Research Assistant Professor of Forest Hydrology; Ph.D. (Oregon State)

Special Interests: Watershed management and forest hydrology; runoff generation processes; tracer and isotope applications in hydrology; land use and climate change effects on water resources



**RAFLO, ALAN**

Research Associate; M.S. (Iowa State)

Special Interests: Water-related current events; helping citizens learn about and understand water resources



**WALKER, JANE L.**

Research Associate; M.S. (Virginia)

Special Interests: Water quality management; information dissemination

Please visit the Virginia Water Resources Research Center's website, [www.vwrrc.vt.edu](http://www.vwrrc.vt.edu), for more information about programs and personnel.



# Conservation Management Institute

Main Office:  
190 Kraft Drive, Suite 250 (0534)  
Blacksburg, VA 24061  
Phone: 540.231.7348  
Fax: 540.231.7019  
Website: [www.cmi.vt.edu](http://www.cmi.vt.edu)



## MURPHY, BRIAN R.

Director, Conservation Management Institute; Professor of Fisheries;  
Ph.D. (Virginia Tech)

Special Interests: Fisheries management; reservoir ecology; international conservation; natural resource education



## CAMPBELL, JAMES B.

Associate Director, Conservation Management Institute; Professor of Geography; Ph.D. (Kansas)

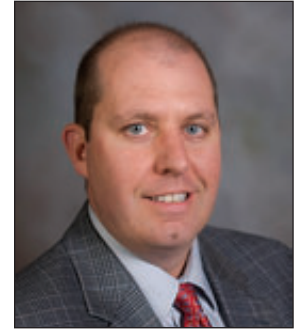
Special Interests: Soil and landscape variability; land-use data; image processing and analysis; land reclamation



## HAMMETT, A. L. (TOM)

Associate Director, Conservation Management Institute; Professor of Forest Products Marketing; Ph.D. (Georgia)

Special Interests: International trade; non-timber forest products utilization and marketing; forest enterprise development; forest-based economic development; forest products marketing; certified forest products; niche markets



## KLOPFER, SCOTT

Executive Director, Conservation Management Institute; M.S. (Virginia Tech)

CMI organizational interests: information technology; remote sensing and photogrammetry; geospatial information development and management; conservation innovation; inventory and monitoring; land conservation; decision support system development; conservation partnership coordination; professional development training



## WYNNE, RANDOLPH H.

Associate Director, Conservation Management Institute; Co-Director, Center for Environmental Applications and Remote Sensing at Virginia Tech; Professor of Forest Remote Sensing; Ph.D. (Wisconsin-Madison)

Special Interests: Applications of remote sensing to forestry; natural resource management; ecological modeling; earth system science

Please visit the Conservation Management Institute's website, [www.cmi.vt.edu](http://www.cmi.vt.edu), for more information about programs and personnel.



# National Capital Region Natural Resources Programs

Office of the Director:  
Northern Virginia Center  
7054 Haycock Road, #411  
Falls Church, VA 22043  
Phone: 703.538.3762  
Fax: 703.538.8337  
Website: [nr.ncr.vt.edu](http://nr.ncr.vt.edu)

## **MORTIMER, MICHAEL**

Director, National Capital Region Natural Resources Programs;  
Ph.D. (Montana)

Special Interests: Public land law and management; forest regulation; environmental and natural resource conflict; public participation processes



## **ALVAREZ, MILA**

Adjunct Faculty; Ph.D. (Maine)

Special Interests: Ecosystem management;  
environmental policy



## **CHAMP, MICHAEL A.**

Adjunct Faculty; Ph.D. (Texas A&M)

Special Interests: Water resources; due diligence;  
renewable energy resources; desalination  
challenge



## **CZECH, BRIAN M.**

Adjunct Faculty; Ph.D. (Arizona)

Special Interests: Ecological economics;  
sustainability science; conservation biology;  
climate change; endangered species policy and  
management



## **DI MAURO, DESIREE**

Adjunct Faculty; Ph.D. (George Mason)

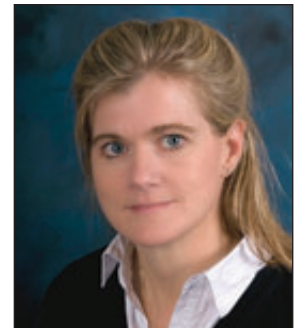
Special Interests: Ecology; endangered species;  
Chesapeake Bay policy; non-native species  
management; butterflies



## **EVANS, GARY R.**

Adjunct Faculty; Ph.D. (Colorado State)

Special Interests: Ecology; natural resources;  
public policy; public lands management



## **EVES, HEATHER E.**

Adjunct Faculty; D.F.E.S. (Yale)

Special Interests: Africa; wildlife; socioeconomics;  
policy; bushmeat; wildlife trade; international;  
collaboration; hunting



**GIESE, LAURA**

Adjunct Faculty; Ph.D. (Virginia Tech)

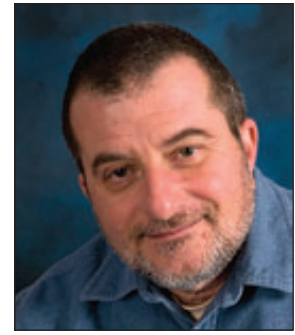
Special Interests: Wetland ecology and policy (international wetlands, function and integrity assessment, creation/restoration); ecosystem services; forest ecology; invasive species; threatened and endangered plant species



**GRIPNE, STEPHANIE L.**

Adjunct Faculty; Ph.D. (Montana)

Special Interests: Ecosystem system services and markets, carbon, water, wetlands, and biodiversity; conservation finance; community-based conservation, forest and agricultural economics; nonmarket valuation



**HADIDIAN, JOHN**

Adjunct Faculty; Ph.D. (Pennsylvania State)

Special Interests: Urban wildlife; urban ecology; human-wildlife conflicts



**HUFF, JANE N.**

Adjunct Faculty; Ph.D. (Michigan State)

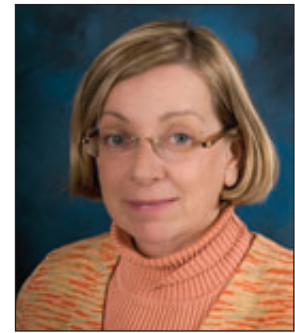
Special Interests: Zoology; behavioral ecology; environmental education and the human role in ecosystems



**LINDSEY, KIERAN J.**

Adjunct Professor; Director, Natural Resources Distance Learning Consortium; Ph.D. (Texas A&M)

Special Interests: Urban wildlife; human-wildlife interface; human-wildlife conflict management; urban ecosystems; distance learning



**MANTZ, JEANNINE VAIL**

Adjunct Faculty; M.A. (Pittsburgh)

Special Interests: Sustainable business plan entrepreneurship; new business venture; triple bottom line (people, profit, planet); corporate social responsibility; revenue model start-up strategy; tactical planning



**MASTRAN, SHELLEY**

Visiting Professor; Ph.D. (Maryland)

Special Interests: Environmental conservation; environmental history; natural resources planning; watershed planning; low impact development



**PLYLER, JENNIFER L.**

Visiting Professor; Ph.D. (Virginia Tech)

Special Interests: Communication theories and models; ethics; social science research; public attitudes; organization behavior and processes; human dimensions



**ROBERTSON, DAVID P.**

Visiting Professor; Ph.D. (Virginia Tech)

Special Interests: Sustainability; public policy; human dimensions of natural resource management; community forestry; urban and public ecology; landcare; landscape architecture; environmental design and planning



**RUGGIERO, MICHAEL A.**

Adjunct Faculty; Ph.D. (George Washington)

Special Interests: Biological diversity; biodiversity informatics; ecological indicators; ecological services; global climate change; international biodiversity conservation; pollinator conservation



**SAMPSON, R. NEIL**

Adjunct Faculty; M.P.A. (Harvard)

Special Interests: Promoting conservation on private ownerships; soil and water conservation; forestry; carbon sequestration



**SHEFFIELD, STEVE R.**

Adjunct Faculty; Ph.D. (Oklahoma State)

Special Interests: Ecology; conservation biology; field biology; vertebrate zoology; environmental, wildlife, and ecotoxicology; climate change; impacts of energy use; evolutionary biology



**TAN, SHIRLEE**

Adjunct Faculty; Ph.D. (Salk Institute for Biological Studies, UC San Diego)

Special Interests: Environmental and wildlife toxicology; international issues; public policy; public education; cellular and molecular biology



**THORNHILL, ALAN D.**

Adjunct Faculty; Ph.D. (California-Irvine)

Special Interests: Conservation science; sustainability; community-based conservation; conflict resolution; resource management; science/policy interface



**TRAUGER, DAVID L.**

Adjunct Faculty; Ph.D. (Iowa State)

Special Interests: Sustainability; conservation ecology; waterfowl biology



**ZHOU, DEQUN**

Adjunct Faculty; Ph.D. (Hong Kong)

Special Interests: Non-timber forest products; sustainable development; mycology; conservation biology; conservation area planning

Please visit the National Capital Region Natural Resources Programs' website, [nr.ncr.vt.edu](http://nr.ncr.vt.edu), for more information about programs and personnel.

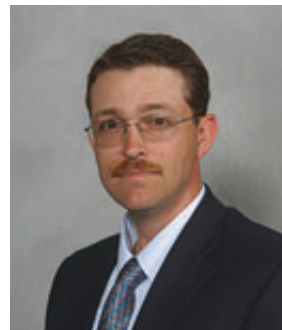
## Natural Resources Regional Extension Agents



**CLARK, NEIL A.**  
Extension Agent – Natural Resources,  
Southeast Region; M.S. (Virginia Tech)



**DOWNING, ADAM K.**  
Extension Agent – Natural Resources,  
Northern Region; M.S. (Pennsylvania State)



**FISHER, KEVIN J. (JASON)**  
Extension Agent – Natural Resources,  
Central Region; M.S. (Virginia Tech)



**WORRELL, WILLIAM C.**  
Extension Agent – Natural Resources,  
Southwest Region; B.S. (Virginia Tech)

# Emeriti Faculty

The title of emeritus may be conferred on retired professors and associate professors who are specially recommended to the board of visitors by Virginia Tech President Charles W. Steger. Nominated individuals who are approved by the board of visitors receive an emeritus certificate from the university. Many emeritus faculty remain active in the life of their home department and the college by serving on graduate student committees, guest lecturing in classes, writing, and attending professional meetings. Listed here are all emeritus faculty in the College of Natural Resources and Environment.

## Department of Fish and Wildlife Conservation

Gerald H. Cross	gecross@vt.edu
Robert H. Giles	rhgiles@vt.edu
Louis A. Helfrich	lhelfric@vt.edu
Roy L. Kirkpatrick	rlkirk@vt.edu
Richard J. Neves	mussel@vt.edu
John J. Ney	jney@vt.edu
David L. Trauger	dtrauger@vt.edu
Michael R. Vaughan	mvaughan@vt.edu

## Department of Forest Resources and Environmental Conservation

Robert E. Adams	robadams@localnet.com
Gregory N. Brown	browngn@charter.net
Gregory J. Buhyoff	buhyoff@vt.edu
James Burger	jaburger@vt.edu
Otis F. Hall	ofhall@vt.edu
Harry L. Haney	hhaney@vt.edu
John F. Hosner	jhosner@vt.edu
W. David Klemperer	david.klemperer@vt.edu
William McElfresh	wmcelfre@usit.net
Robert L. McElwee	phinzo@aol.com
Richard G. Oderwald	oderwald@vt.edu
Marion R. Reynolds	mrr@vt.edu
Joseph Roggenbuck	roggenbuck@vt.edu
Robert M. Shaffer	rshaffer@vt.edu
David Wm. Smith	smithdwm@vt.edu
Richard B. Vasey	dvasey@hughes.net
Harold W. Wisdom	wisdom@vt.edu

## Department of Geography

Charles M. Good	cgood@vt.edu
Lawrence S. Grossman	lgrossmn@vt.edu
Robert W. Morrill	morrill@vt.edu
C. Bonham Richardson	indabon2@hotmail.com
Joseph L. Scarpaci	joescarpaci@gmail.com

## Department of Wood Science and Forest Products

Wolfgang G. Glasser	wglasser@vt.edu
Geza Ifju	ifju@vt.edu
Fred M. Lamb	ml195@vt.edu
Jack Muench	muench@vt.edu
Marshall S. White	mswhite@vt.edu
Robert L. Youngs	ryoungs@vt.edu