



Photo by Peter Schaeffer

ANNUAL REPORT FOR 2000

Division of Resource Management

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Electronic Version of the Division's Annual Report 2000:

An electronic version of the Division's Annual Report 2000 can be viewed at:
<http://www.caf.wvu.edu/RESM/2000AnnualReport.htm>

Title Photo:

The title photo shows the Post Office and general store of Helvetia, WV, a small historic community in Randolph County. The scene illustrates how much West Virginia's economy depends on traditional extractive industries, particularly the timber and wood industry, which relies on West Virginia's extensive forest resources. Coal production also remains high, even as the number of mining-related jobs continues to decline. In addition, however, the beautiful environment and, as in the case of Helvetia, West Virginia's historic heritage, are making our state an ever more popular tourist destination. The picture was taken in fall 2000.

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INTRODUCTION

The Division of Resource Management is an interdisciplinary academic unit consisting of the Programs in Agricultural and Environmental Education, Agricultural and Resource Economics, and Landscape Architecture, respectively. The faculty conducts research in agricultural and environmental education and leadership, agricultural economics and trade, environmental and natural resources analysis and policy, landscape architecture and landscape ecology, and community and economic development.

This report covers the year 2000. Its emphasis is on research, particularly publications and grants, but the report also lists service contributions to West Virginia and its communities, and to the professions represented in the Division. On teaching the report contains a list of all degrees offered by the Division, and their enrollments in Fall 2000.

A comparison of this report to the reports of previous years shows that the overall enrollment has been stable, though there have been shifts between the programs. While the B.S. in Agriculture and the B.S. in Resource Management have experienced strong growth, enrollments in the masters degree programs have been dropping. We suspect that a strong economy has made the bachelors degree more marketable and allowed graduates to forego or at least postpone graduate school.

The research enterprise of the Division continues to grow, especially the number and volume of externally funded projects. Since 1993, when we published the first Division Annual Report, the total amount of annual expenditures from external grants has increased by over 400%, from \$150,000 to over \$750,000 in 2000.

We are also proud of the quality of the faculty's service to West Virginia and its communities. The award to the Community Design Team (CDT) of the Governor's Service Award was a special highlight, but there were other noteworthy service contributions, such as pro bono design and planning on riverfront redevelopment in Star City, WV. The faculty also made significant service contributions to the professions.



In summary, this report reflects the mission of the Division in teaching, research, and service. More detailed information about the Division's faculty and programs is available on our web site. Please contact us if you have any questions about our programs.

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TEACHING

Degrees offered by the Division of Resource Management

<i>Degree</i>	<i>Major</i>	<i>Enrollment Majors, Fall 2000</i>	<i>Accreditation</i>
B.S. in Agriculture	Agricultural and Environmental Education	61	Yes
B.S. in Resource Management	Agribusiness Management and Rural Development	21	Not applicable
	Environmental and Natural Resource Economics	6	
B.S.L.A.	Landscape Architecture	153	Yes
<i>Total Undergraduate Enrollment</i>		<i>241</i>	
M.S.	Agricultural and Environmental Education	4	Yes
M.S.	Agricultural and Resource Economics	16	Not applicable
Ph.D.	Natural Resource Economics	14	Not applicable
<i>Total Graduate Enrollment</i>		<i>34</i>	

The Division generated approximately 3450 credit hours per semester, or 223 credit hours per full-time faculty equivalent. This is a 25% higher than in 1993, when we published our first Division Annual Report. The typical full-time teaching assignment is four courses (3 credit hours/course) per semester. The 223 credit hours per full-time faculty are equivalent to an average enrollment of 18.6 students per 3-credit hours of course work offered. Enrollments in undergraduate courses are typically significantly above, and enrollments in graduate courses are usually below, the average of 18.6 students, particularly at the doctoral level. About 23% of courses offered by the Division are at the graduate level.

FACULTY AND STAFF

In 2000 the Division employed twenty full-time tenure track faculty members and the director. The secretarial and administrative support staff consists of four secretaries and an administrative associate. Our research support staff has been growing and in 2000 consisted of five full-time employees. In addition, the Division funds an average of sixteen graduate research assistants and one to four temporary full-time research staff positions.

WVU Extension is a separate unit and not part of the College of Agriculture, Forestry and Consumer Sciences. Therefore, the table does not show any budgeted effort in Extension. Only Dr. Sanjay Shah holds an Extension appointment, which is for 80% of his time.

FACULTY OF THE DIVISION OF RESOURCE MANAGEMENT				
Name	Rank	Appointment Term	Budgeted Allocation of Effort	
			Teaching	Research
<i>Agricultural and Environmental Education</i>				
Robert G. Diener	Professor	12 months	60%	40%
Stacy A. Gartin	Professor	12 months	90%	10%
Layle D. Lawrence	Professor	12 months	90%	10%
Kerry S. Odell	Associate Dean/ Associate Prof.	6 months: College Admin. 6 months: Faculty	100%	0%
Harry Boone	Assistant Professor	6 months	100%	0%
Sanjay Shah	Extension Specialist/Lecturer	4.5 months	20%	0%
John Lozier	Adjunct Assistant Professor	Not Applicable		
<i>Total 9-month FTE, Agricultural and Environmental Education</i>			<i>4.35 FTE</i>	<i>0.73 FTE</i>
<i>Agricultural and Resource Economics</i>				
Laura A. Blanciforti	Adjunct Associate Professor	Not Applicable		
Alan R. Collins	Associate Professor	9 months	30%	70%
Dale K. Colyer	Professor	10 months: College Admin. 2 months: Faculty	50%	50%
Qi Dai	Adjunct Assistant Professor	Not Applicable		
Gerard E. D'Souza	Professor	9 months	35%	65%
Jerald J. Fletcher	Professor	9 months	30%	70%
Tesfa G. Gebremedhin	Professor	9 months	65%	35%
Fonda Holehouse	Lecturer	4.5 months	20%	0%
Walter C. Labys	Professor	9 months	50%	50%
Scott Loveridge	Adjunct Professor	Not Applicable		
Carson Mencken	Adjunct Associate Professor	Not Applicable		
Tim T. Phipps	Professor	9 months	40%	60%
Randall Rosenberger	Assistant Professor	4.5 months	30%	70%
John Saymansky	Visiting Assistant Professor	4.5 months	100%	0%
Peter V. Schaeffer	Division Director/ Professor	6 months: Sabbatical Leave 6 months: Division Admin.	0%	0%
Dennis K. Smith	Professor	6 months: Division Admin. 6 months: College Admin.	10%	0%
Thomas F. Torries	Professor	9 months	50%	50%
<i>Total 9-month FTE, Agricultural and Resource Economics</i>			<i>4.10 FTE</i>	<i>4.46 FTE</i>
<i>Landscape Architecture</i>				
Donald R. Armstrong	Associate Professor	9 months	100%	0%
Alexander G. Karther	Associate Professor	9 months	100%	0%
Alon Kvashny	Professor	4.5 months	100%	0%
George Longenecker	Professor	9 months	100%	0%
Steven B. McBride	Associate Professor	9 months	100%	0%
Elizabeth Messer Diehl	Assistant Professor	9 months	100%	0%
Charles B. Yuill	Associate Professor	9 months	100%	0%
Gail Zink	Visiting Lecturer	4.5 months	100%	0%
<i>Total 9-month FTE, Landscape Architecture</i>			<i>7.00 FTE</i>	<i>0 FTE</i>
		<i>Administration</i>	<i>Teaching</i>	<i>Research</i>
<i>Total Faculty Resources (9-month FTE, not headcount)</i>		<i>1.10 FTE</i>	<i>15.45 FTE</i>	<i>5.20 FTE</i>

Notes: FTE=Full Time Equivalent. Columns do not add up to the figures in the last row because appointments have been converted to 9-months equivalents for calculating Division totals in Teaching and Research. The "Totals" therefore do not represent the number of faculty.

A full-time teaching assignment consists of 24 credit hours/9 months or 30 credit hours/12 months

FULL-TIME STAFF		
Name	Title	Appointment Term
<i>Office Support Staff</i>		
Ellen Hartley Smith	Division Administrative Associate	12 months
Eva Thomas	Division Administrative Secretary	12 months
Lisa Lewis	Secretary	10 months
Alice Compton	Secretary	12 months
Dianne Spring	Secretary	12 months
<i>Research Support Staff—Natural Resource Analysis Center</i>		
Jacquelyn Strager	Research Coordinator (Biological Sciences)	12 months, grant-funded
Michael Strager	Research Coordinator (Economics and Management)	12 months, 70% grant-funded, 30% Hatch-funded
Daniel Miller	Senior Project Coordinator (Aquaculture)	12 months, grant-funded
Jerry Stekete	Research Assistant	12 months, grant-funded
John B. Churchill	Research Assistant	12 months, grant-funded
Qingyun Sun	Post-doctoral Fellow	3 months, grant-funded

News

- **Dr. Cameron R. Hackney** became Dean of the College of Agriculture, Forestry and Consumer Sciences in summer 2000. He came to WVU from Virginia Tech, where he was Professor in and Head of the Department of Food Science and Technology. He received the Ph.D. in Food Science from North Carolina State University, and the MS. in Agricultural Microbiology and B.S. in Animal Science from West Virginia University.
- We are sad having to report to alumni and friends of the Division, and to colleagues at other universities, that **Kendall Clark Elliott** passed away in August 2000. Ken was Professor Emeritus of Agricultural and Environmental Education. He had taught agricultural mechanics courses at WVU for 42 years. Among students he was known and appreciated for his firm but gentle guidance. He felt strongly that students should learn to give back to society for their good luck, and he liked working with his students on service projects. He was sixty-eight years old.
- After six years of serving as Associate Dean for Academic Affairs, **Kerry Odell** returned to full-time teaching and research as a faculty member in the Program in Agricultural and Environmental Education. Among his many contributions to the College, the successful campaign to increase the College of Agriculture, Forestry and Consumer Sciences' scholarships is particularly noteworthy. Thanks to his leadership, the annual amount given in scholarships increased by some 400% during his tenure and the number of endowed scholarship funds has grown significantly.
- **Robert Diener**, Professor of Agricultural and Environmental Education, has announced his intention to retire effective summer 2001. He joined WVU in 1968 in

Agricultural Engineering. When the program was discontinued he shifted his efforts more into environmental engineering and developed courses in composting, soil and water engineering, water quality, hazardous waste management, and commercial composting. He also put his professional expertise and love for tractors to work and offered a course in tractor restoration. He plans to retire in his farm in west-central Pennsylvania. We thank him for his many contributions to WVU and to our students.

- **Elizabeth Messer Diehl**, Assistant Professor of Landscape Architecture, has announced her resignation effective the end of the academic year. Professor Diehl married recently and is expecting her first child. She and her husband move to be closer to other family members. Professor Diehl came to WVU in 1997. She is the Director of the West Virginia Community Design Team and editor of the Journal of Therapeutic Horticulture. She is also very active in the community. Although she has been at WVU for only a short time, her work with the Community Design Team has established an outstanding outreach program in community development and design that will continue after her departure. We wish her and her husband David all the best.
- **Alon Kvashny**, Professor and Chair of Landscape Architecture, resigned his position effective June 30, 2000. He left for Texas Tech University where he holds the rank of Professor of Landscape Architecture and serves as chair of his department. Dr. Kvashny had been at WVU since 1972. During his time at WVU he helped shape the Program in Landscape Architecture in his roles as teacher, scholar, and Program chair. He served as landscape architectural consultant to a Pete Dye-designed golf course in the region, and otherwise stayed engaged in professional practice. He used his ties to the profession to provide students with internship opportunities, and otherwise helped them the gain practical experience in their profession. His most recent research centered on creative problem solving. Shortly after leaving WVU, he obtained a book contract to publish a co-authored manuscript on creative problem solving. We wish Alon the best of luck in his new position.
- **Harry N. Boone, Jr.** joined the Division in summer 2000 as Assistant Professor of Agricultural and Environmental Education. A native West Virginian, he received the B.S. and M.S. in Agricultural Education from WVU, and the Ph.D. in Agricultural Education from Ohio State University. He has taught high school in Lewisburg, WV and, prior to joining WVU, was director of the West Virginia Criminal Justice Analysis Center. Previously he was a research associate and evaluation specialist with the Council of State Governments in Lexington, KY.
- The Division hired **Randall S. Rosenberger** as Assistant Professor of Agricultural and Resource Economics. For the first two years Dr. Rosenberger will also hold a research appointment in WVU's Regional Research Institute. Dr. Rosenberger holds a Ph.D. in Agricultural and Resource Economics from Colorado State University, an M.A. in Applied Ethics, also from Colorado State University, and a B.A. in Philosophy from Slippery Rock University.
- The Division also hired **Sanjay Shah** as part-time Lecturer in Agricultural and Environmental Education. Dr. Shah joined WVU Extension in 2000 as an agricultural and environmental engineering specialist. Dr. Shah earned the Ph.D. in Biological Systems Engineering from Virginia Tech, the M.S. in Biological and Agricultural

Engineering from Louisiana State University, and the B.Tech. in Agricultural Engineering from Punjab Agricultural University in India.

- **Walter Labys** gave the Millennium Lecture in the Alex G. McKenna Economic Series at St. Vincent College in Latrobe, PA in January 2000. This series has a distinguished history of bringing some of the world's most influential economists to St. Vincent College. Dr. Labys has established himself as an expert in commodity price modeling and has authored or co-authored fifteen books on commodity price modeling and related topics.
- **Qingyun Sun** joined the Division in October 2000 as a postdoctoral fellow. He earned the Ph.D. in Plant and Soil Sciences from West Virginia University.
- **Gail Zink** joined the Division in fall 2000 as a lecturer for one year, to teach in the Program in Landscape Architecture. She earned the Master of Landscape Architecture from Ohio State University. She is a registered landscape architect in Ohio and a member of ASLA. She has been teaching at Ohio State University from 1987-1999 and been engaged in professional practice.
- **John Saymansky** also joined the Division in fall 2000 as Visiting Assistant Professor to teach courses in rural development and agribusiness management. Dr. Saymansky earned the Ph.D. in Natural Resource Economics from WVU.
- In fall 2000 **Gerard D'Souza** spent two months on sabbatical leave, visiting the University of the Virgin Islands in St. Croix. During his visit he presented three seminars and authored or co-authored five forthcoming UVI Experiment Station bulletins.
- **Peter Schaeffer** was on sabbatical from July 1999 through June 2000. He spent this time at the Swiss Federal Institute of Zurich, where he was visiting professor in the Institute of Local, Regional and National Planning, Division of Landscape and Environmental Planning. While on sabbatical he presented seminars, gave a paper at an international conference of the Food and Agricultural Organization that was held in Maastricht, Holland. He also visited Kunming, PR China, where he worked with Swiss and Chinese colleagues on a project sponsored by the Swiss Federal Directorate for Economic Development Cooperation.
- **Dale Colyer** served as Interim Associate Director of the West Virginia Agricultural and Forestry Experiment Station from January until October 2000, when the position was filled after a national search. William Vinson, the new Associate Director, comes to WVU from Virginia Tech.
- **Dennis Smith** served as Acting Director of the Division of Resource Management from January through June 2000 while Peter Schaeffer was on sabbatical leave. The Dean then appointed him to serve as Associate Dean of Academic Affairs of the College of Agriculture, Forestry, and Consumer Sciences.

PUBLICATIONS

Explanations

The names of Division faculty members are in **Bold Letters**

The names of Division students and recent graduates are in *Italics*
The names of members of the Division support staff are in ***Bold Italics***

Books

Dale Colyer, P. Lynn Kennedy, William A. Amponsah, Stanley M. Fletcher, and Curtis M. Jolly, editors, 2000. Competition in Agriculture: The United States in the World Market. Binghamton, NY: Haworth Press.

Peter V. Schaeffer and Scott Loveridge¹, editors, 2000. Small Town and Rural Economic Development: A Case Studies Approach. Westport, CT: Praeger.

Refereed Journal Articles

T. Basden, C. Ritz and **Alan R. Collins**, 2000. "Incentive-Based Policies and Poultry Waste Management in West Virginia." West Virginia Public Affairs Reporter 17(3): 2-6.

A. R. Biggs, H.W. Hogmire and **Alan R. Collins**, 2000. "Assessment of an Alternative IPM Program for the Production of Apples for Processing." Plant Disease 84: 1140-1146.

Bukenya, J. O., J. Befecadu, H. S. Jones, K.C. Reddy, and A. Baiyee-Mbi, 2000. "Economic Feasibility of Substituting Fresh Poultry Litter for Ammonium Nitrate in Cotton Production." Journal of Sustainable Agriculture 16 (1): 81-89.

J. B. Churchill, P. B. Wood and D. F. Brinker. 2000. "Diurnal Roost Site Characteristics of Northern Saw-whet Owls Wintering at Assateague Island, Maryland." Wilson Bulletin 112: 332-336

Bruce C. Cohen, **Walter C. Labys** and *Paavo Eliste*, 2000. "An Econometric Time Series Analysis of CO₂ Concentrations and Emissions." International Journal of Technology and the Environment 1(1).

Alan R. Collins, Danny Bainbridge, and *Jason Murphy*, 2000. "Optimal Loading Rates and Economic Analyses for Anaerobic Digestion of Poultry Waste" Journal of the Air and Waste Management Association 50:1037-1044.

Jeff Cromwell, **Walter C. Labys** and Eugene Kouassi, 2000. "What Color are Commodity Prices? A Fractal Analysis." Empirical Economics 25 (3): 563-580.

Kezelee Jones and **Gerard E. D'Souza** 2001. "Trading Poultry Litter at the Watershed Level: A Goal Focusing Approach." Agricultural and Resource Economics Review 30, forthcoming.

¹ Scott Loveridge was director of the Regional Research Institute at WVU, Professor of Extension and Adjunct Professor of Resource Management. He left WVU for Michigan State University in August 2000.

Tesfa G. Gebremedhin, 2000. "Problems and Prospects of World Food Situation." Journal of Agribusiness 18 (2, Spring): 221-236.

Chongwon Kim, **Tim Phipps** and Luc Anselin, forthcoming. "Measuring the Benefits of Air Quality Improvement: A Spatial Hedonic Approach." Journal of Environmental Economics and Management.

Haixiao Huang and **Walter C. Labys**, 2000. "Environment and Trade: A Review of Issues and Methods." International Journal of Global Environmental Issues 1 (1): 1-62.

Walter C. Labys, Eugene Kouassi, and M. Terraza, 2000. "Short-Term Cycles in Primary Commodity Prices." Journal of Developing Economies 38 (3): 330-342.

Walter C. Labys, A. Achouch and M. Terraza, 2000. "Metal Prices and the Business Cycle." Resources Policy 25: 229-238.

Walter C. Labys and Michel Terraza, 2000. "Une Decennie de Commerce Globale du Vin." Eurovin Etudes 1: 41-44.

Walter C. Labys and Michel Terraza, 2000. "Globalisation de Structure du Marché du Vin." Eurovin Etudes 1: 45-48.

Mohamed Lahlou and **Dale Colyer**, 2000. "Water Conservation in Casablanca, Morocco." Journal of the American Water Resources Association 36 (5, October):1003-1011.

Layle D. Lawrence, 1999². "Creating the Future: Extension's Role in Sustainable Economic Development of Rural Communities." Indian Journal of Extension Education 35 (1&2: January-June): 6-12.

Brian Lego, **Tesfa Gebremedhin**, and Brian Cushing, 2000. "A Multi-Sector Export Base Model of Long-Run Regional Employment Growth." Agricultural and Resource Economics Review 29 (2, October): 192-197.

Jason T. Morrison, **Robert G. Diener**, Bradford Bearce and Louis M. McDonald, Jr., 2000. "Effect of Lime (soil pH) and Soil Texture on Remediation of Oil Contaminated Soil." Journal of Soil Chemistry and Remediation, February/March.

Christopher E. Prigge, **Robert G. Diener**, **Stacy A. Gartin**, **Layle D. Lawrence**, Douglas Hudson and Henry W. Hogmire, 2000. "Benchtop Composting Reactor for Remediation Studies." Soil Sediment & Groundwater, June/July: 16-20.

Thamir Salih and **Dale Colyer**, 2000. "A Case Study of Structural Transformations, Trade and Poverty in Malaysia's Socioeconomic Development, 1960-95." International Journal of Commerce and Management 10 (1): 24-47.

² Not listed in Division's Annual Report for 1999.

Shah, Sanjay B. and R.J. Edling, 2000. "Daily Evapotranspiration Prediction from a Louisiana Flooded Rice Field," Journal of Irrigation and Drainage Engineering 126(1): 8-13.

Randall S. Rosenberger and John B Loomis, 2000. "Panel stratification in meta-analysis of economic studies: An investigation of its effects in the recreation valuation literature" Journal of Agricultural and Applied Economics, December 32(3): 459-470.

Gary J. Wingenbach³, **Stacy A. Gartin** and **Layle D. Lawrence**, 2000. "Assessing the Aquaculture Curricula in the Northeastern Region," Journal of Agricultural Education 41 (2): 2-11.

Gary J. Wingenbach, C. Nestor, **Layle D. Lawrence**, **Stacy A. Gartin**, Jean Woloshok, and P. Mulkeen, 2000. "Marketing Strategies for Recruiting 4-H Members in West Virginia." Journal of Agricultural Education 41 (1): 88-95.

Book Chapters

Dale Colyer, 2000. "Fruit." In D. Colyer et al. (eds.), Chapter 10: 155-169.

Dale Colyer, 2000. "Poultry." In D. Colyer et al. (eds.), Chapter 15: 217-234.

Dale Colyer and P. Lynn Kennedy, 2000. "Introduction." In D. Colyer et al. (eds.), Chapter 1: 1-9.

Dale Colyer and Curtis M. Jolly, 2000. "Findings and Implications." In D. Colyer et al. (eds.), Chapter 19: 307-324.

Scott Loveridge and **Peter V. Schaeffer**, 2000. "Introduction." In Peter V. Schaeffer and Scott Loveridge (eds.): xiii-xvi.

Elizabeth Messer Diehl, 2001. "Hospital Gardens." In C. Shoemaker (ed.), Encyclopedia of Gardens: History and Design. Chicago: Fitzroy Dearborn Publishers, forthcoming.

Elizabeth Messer Diehl, 2001. "Sculpture Gardens." In C. Shoemaker (ed.), Encyclopedia of Gardens: History and Design. Chicago: Fitzroy Dearborn Publishers, forthcoming.

Elizabeth Messer Diehl, 2001. "Saihoji Gardens." In C. Shoemaker (ed.), Encyclopedia of Gardens: History and Design. Chicago: Fitzroy Dearborn Publishers, forthcoming.

³ Dr. Wingenbach was a member of the Division faculty at the time the research was done. He joined the faculty at Mississippi State University in 1999.

Walter C. Labys, 2001. "The Demand for Metals." In R. Mackinnon (ed.), Encyclopedia of Materials Science and Technology. MIT-Elsevier Sciences, forthcoming.

Walter C. Labys, 2001. "Transmaterialization." In R. Ayres and L. Ayres (eds.), Handbook of Industrial Ecology. London: Edgar Elgar, forthcoming.

Steven B. McBride, 2000. "Greenways." In Craig W. Allin (ed.), Encyclopedia of Environmental Issues. Pasadena, CA: Salem Press.

Steven B. McBride, 2000. "NIMBY." In Craig W. Allin (ed.), Encyclopedia of Environmental Issues. Pasadena, CA: Salem Press.

Peter V. Schaeffer, 2000. "Introduction: Attracting Large-Scale Industry." In Peter V. Schaeffer and Scott Loveridge (eds.), Chapter 17: 135-137.

Peter V. Schaeffer, 2000. "Introduction: Public- vs. Private-Sector Roles." In Peter V. Schaeffer and Scott Loveridge (eds.), Chapter 23: 187-198.

Proceedings, Reports, and other Professional Publications

Mohammad Al-Smadi, Kevin .M. Brannan, Theo A. Dillaha, Conrad D. Heatwole, Jennifer Miller, Saied Mostaghimi, **Sanjay B. Shah**, and Mary Leigh Wolfe, 2000. "Fecal Coliform TMDL for Sheep Creek, Elk Creek, Machine Creek, Little Otter River, and Big Otter River, Bedford and Campbell Counties, Virginia." Final Report for Virginia Dept. of Conservation and Recreation, Division of Soil and Water Conservation (Accepted by USEPA).

Mohammad Al-Smadi, Kevin .M. Brannan, Theo A. Dillaha, Conrad D. Heatwole, Jennifer Miller, Saied Mostaghimi, **Sanjay B. Shah**, and Mary Leigh Wolfe, 2000. "Fecal Coliform TMDL for Dry River, Rockingham County, Virginia." Final Report for Virginia Dept. of Conservation and Recreation, Division of Soil and Water Conservation (Accepted by USEPA).

Mohammad Al-Smadi, Kevin .M. Brannan, Theo A. Dillaha, Conrad D. Heatwole, Jennifer Miller, Saied Mostaghimi, **Sanjay B. Shah**, and Mary Leigh Wolfe, 2000. "Fecal Coliform TMDL for Mill Creek, Rockingham County, Virginia." Final Report for Virginia Dept. of Conservation and Recreation, Division of Soil and Water Conservation. Submitted to USEPA July 2000 (Under review in light of TMDL being developed for other pollutants in that watershed).

Mohammad Al-Smadi, Kevin .M. Brannan, Theo A. Dillaha, Conrad D. Heatwole, Jennifer Miller, Saied Mostaghimi, **Sanjay B. Shah**, and Mary Leigh Wolfe, 2000. "Fecal Coliform TMDL for Pleasant Run, Rockingham County, Virginia." Final Report for Virginia Dept. of Conservation and Recreation, Division of Soil and Water Conservation. Submitted to USEPA July 2000 (Under review in light of TMDL being developed for other pollutants in that watershed).

R. Bendapudi and **Gerard E. D'Souza**, 2000. "U.S. Conservation Policies and Sustainable Development Principles: Consistency or Contradictory?" Proceedings of the World Congress on Managing and Measuring Sustainable Development. August. <http://members.home.net/gdufour99/Dsouza.html>.

A.R. Biggs, H.W. Hogmire and **Alan R. Collins**, 2000. "Assessment of an Alternative IPM Program for the Production of Apples for Strategies for Processing, Part II." PA Fruit News 80(11): 18-21.

A.R. Biggs, H.W. Hogmire and **Alan R. Collins**, 2000. "Assessment of an Alternative IPM Program for the Production of Apples for Strategies for Processing, Part I." PA Fruit News 80(10): 12-18.

James Obadian Bukenya and **Tesfa G. Gebremedhin**. "An Empirical Analysis of Family Income Distribution." Morgantown, WV: Regional Research Institute, Research Paper 2002. <http://www.rri.wvu.edu/wpapers/2000wp.htm>.

James Obadian Bukenya, **Peter V. Schaeffer**, and **Tesfa G. Gebremedhin**, 2000. "The Effect of Wage Differentials and Regional Job Growth on Migration: A Case of West Virginia." Regional Research Institute Working Paper #2003. <http://www.rri.wvu.edu/wpapers/2000wp.htm>.

Dale Colyer, 2000. "Poultry and the World Trade Organization." In Parr Rosson (ed.), U.S. Agriculture and the World Trade Organization, College Station: Texas A&M University, Center for North American Studies: 26-27.

Dale Colyer, 2000. "Year Two Review and Evaluation of Progress: Improved Policy and Financial Intermediation Component Trade and Investment Reform Program." Accra, Ghana: Sigma One Corporation for the U.S. Agency for International Development.

Dale Colyer and **Walter C. Labys**, 2000. International Trade in Poultry Meat. Morgantown, WV: West Virginia Agricultural and Forestry Experiment Station, Bulletin 723.

Theo A. Dillaha, Saied Mostaghimi, Mary Leigh Wolfe, Conrad D. Heatwole, **Sanjay B. Shah**, Kevin Brannan, Jennifer Miller, and Mohammad Al-Smadi, 2000. "The North River TMDL Project - Lessons Learned." Poster presented at the 2000 Soil and Water Conservation Society International Meeting.

R.D. Duncan, **Stacy A. Gartin**, **Layle D. Lawrence**, P.A. Mulkeen, Jean Woloshok, **Kerry S. Odell** and **Harry N. Boone**, 2000. "Youth Leadership Life Skills Development of Participants in the West Virginia 4-H Camping Program." In David Howell, Chair/Editor, Proceedings of the 54th Eastern Region Agricultural Education Research Conference, Portsmouth, NH, June 25: 47-58.

Jerald J. Fletcher and *Michael P. Strager*, 2000. Extending the Capabilities of Watershed Characterization and Modeling System. Final technical report to the West Virginia Division of Environmental Protection.

Jack Fuller, **Jerald J. Fletcher** and **Tim T. Phipps**, 2000. Watershed Economics: Multicriteria Approaches to Prioritization of Resource Expenditures. Morgantown, WV: Department of Energy, Federal Energy Technology Laboratory, U.S. Department of Energy, Report.

Conrad D. Heatwole, Mary Leigh Wolfe, **Sanjay B. Shah**, Saied Mostaghimi, Jennifer Miller, Theo A. Dillaha, Donald Cherry, Rebecca Currie, Kevin Brannan, and Mohammad Al-Smadi, 2000. "Fecal Coliform TMDLs for three Animal-intensive Watersheds in Virginia." Paper presented at the 2000 American Society for Agricultural Engineers (ASAE) International Meeting." Paper No. 002085. St. Joseph, MI: ASAE.

Walter C. Labys, 2000. "Can World Market Volatility Upset the U.S. Economy?" Economic Directions. Latrobe, PA: Center for Economic and Policy Research, St. Vincent College.

Walter C. Labys, 2000, "Globalization, Oil Price Volatility and the US Economy." Morgantown, WV: Regional Research Institute, Research Paper 2006.
<http://www.rr.i.wvu.edu/wpapers/2000wp.htm>.

Walter C. Labys, 2000. "Changing Structure of the Global Wine Market." Morgantown, WV: Regional Research Institute, Research Paper 2009.
<http://www.rr.i.wvu.edu/wpapers/2000wp.htm>.

Mohammed Lahlou and **Dale Colyer**, 2000. "Water Demand Management in Developing Countries: A Case Study of Casablanca, Morocco." CD ROM Proceedings of the Xth World Water Congress. Melbourne, Australia, March 11-17.

Layle D. Lawrence, 2000. “A 20th Century Challenge: Extension’s Role in Economic Development of Rural Communities.” Proceedings of the 16th Annual Conference of the Association for International Agriculture and Extension Education, Arlington, VA, March 30-April 1.

Layle D. Lawrence, 2000. “A 20th Century Challenge: Extension’s Role in Economic Development of Rural Communities.” Proceedings of the 10th World Congress of Rural Sociology, Rio de Janeiro, Brazil, July 30-August 5.

P.A. Lovett, **Layle D. Lawrence**, **Stacy A. Gartin**, Gary J. Wingenbach⁴, 2000. “Experiences of West Virginia Agriculture Teachers Who Have Established Aquaculture Units in their Schools and Have Taught Aquaculture Classes for two Years or More.” In David Howell, Chair/Editor, Proceedings of the Eastern Region Agricultural Education Research Conference 54, Portsmouth, NH, June 25: 20-31.

M.A. Menzel, J. W. Edwards, J. M. Menzel, W. M. Ford, S. F. Owen and **J. B. Churchill**, 2000. An Initial Survey of Habitat Use and Spatial Activity Patterns of Gray Bats (*Myotis grisecens*) Inhabiting Fricks and Lowerys Cave in Northwest Georgia. General Technical Report, Georgia Department of Natural Resources, 70 pages.

D. Pacuri, Linda Gribko, Timothy Warner and **Charles B. Yuill**, 2000. “Evaluation of Appalachian Hardwood Multispectral Imagery for Forest Classification and Timber Inventory.” Proceedings of the Second International Conference on Geospatial Information in Agriculture and Forestry, Lake Buena Vista, FL, January 10-12.

Tim T. Phipps, **Jerald J. Fletcher** and Jack Fuller, 2000. Watershed Economics: An Economic Engineering Approach to Cost Analysis. Morgantown, WV: Department of Energy, Federal Energy Technology Laboratory, U.S. Department of Energy, Report.

Randall S. Rosenberger, George L. Peterson, and John B. Loomis, 2000. “Applying a Method of Paired Comparisons to Measure Economic Values for Multiple Goods Sets.” Morgantown, WV: Regional Research Institute, Research Paper 2023. <http://www.rri.wvu.edu/wpapers/2000wp.htm>.

N. San, **Dan Miller**, **Gerard E. D’Souza**, and **Dennis K. Smith**, 2000. “WV Trout Enterprise Budgets.” Version 2, November.

Peter Schaeffer, 2000. “Triebkräfte der Migration: Beobachtungen eines Arbeitsmigranten über die Schweiz” (Determinants of Migration: Observations of a Labor Migrant about Switzerland), 10pp. Position paper written for the Amt für Wirtschaft und Arbeit (Department of Economic Development and Labor, DEDL), Canton of Zurich, Switzerland. Director of DEDL and Schaeffer jointly presented the report to members of the Swiss press on April 19, 2000.

⁴ Dr. Wingenbach was a member of the Division faculty at the time the research was done. He joined the faculty at Mississippi State University in 1999.

Jacquelyn M. Strager and **Charles B. Yuill**, 2000. "West Virginia's Butterflies: A Gap Analysis of Biodiversity," Proceedings of the United States Geological Survey BRD National Gap Analysis Meeting, San Antonio, TX, August 6-8.

Jacquelyn M. Strager, **Charles B. Yuill**, and Petra B. Wood, 2000. "Landscape-Based Riparian Habitat Modeling for Amphibians and Reptiles Using ARC/INFO GRID and ArcView GIS." 2000 ESRI International Conference Proceedings, San Diego, CA, June 26-30.

Michael P. Strager and **Jerald J. Fletcher**, 2000. "The Development of a Ground and Surface Public Water Modeling System for West Virginia." ESRI International Conference Proceedings, San Diego, CA, June 26-30.

Michael P. Strager and **Jerald J. Fletcher**, 2000. Watershed Characterization and Modeling System Version 2.5, Users Manual. Morgantown, WV: West Virginia University, Natural Resource Analysis Center.

Michael P. Strager, **Jerald J. Fletcher**, and **Charles B. Yuill**, and **Jacquelyn M. Strager**, 2000. "Not in My Watershed! - An Interactive Tool to Evaluate Land Use Changes on Stream Water Quality." ESRI International Conference Proceedings, San Diego, CA, June 26-30.

Michael P. Strager, Boyd F. Edwards, Duane H. Smith, 2000. "Geostatistical and Fractal Description of the Cheat River Watershed." Appalachian Rivers Conference Proceedings, Morgantown, WV, April 17-19.

Michael P. Strager, **Jerald J. Fletcher**, and **Charles B. Yuill**, 2000. "Not in My Watershed! – An Interactive Tool for Land Use Change Analysis." ESRI Users Conference Proceedings, San Diego, CA, June 26-30.

Thomas F. Torries, 2000. "Choosing the Discount Rate: A Fairy Tale." Morgantown, WV: Regional Research Institute, Research Paper 2013.
<http://www.rri.wvu.edu/wpapers/2000wp.htm>.

Mary E. Williams, **Harry N. Boone**, **Layle D. Lawrence**, **Stacy A. Gartin**, **Dennis K. Smith**, and **Kerry S. Odell**, 2000. "Evaluation of the International 4-H Youth Exchange (IFYE) Program." In David Howell, Chair/Editor, Proceedings of the Eastern Region Agricultural Education Research Conference 54, Portsmouth, NH, June 25: 60-72.

Charles B. Yuill and **Jacquelyn M. Strager**, 2000. "West Virginia's Forest Lands: Distribution and Change, 1915-1994." Proceedings of the United State Geological Survey BRD National Gap Analysis Meeting, San Antonio, TX, August 6-8.

Theses and Dissertations Completed in 2000

Chrystal Buckingham, 2000. The Philosophies of Adult Education as Practices by Agricultural Education Teachers in Pennsylvania, West Virginia and Virginia. M.S. Thesis in Agricultural and Environmental Education. Major advisor: Stacy A. Gartin.

Semoa De Sousa, 2000. An Economic Analysis of the Relationship of Poverty and Income Inequality in Rural West Virginia. M.S. Thesis, Agricultural and Resource Economics. Major advisor: Tesfa G. Gebremedhin.

Rebecca Duncan, 2000. Youth Leadership Life Skills Development of Participants in the West Virginia 4-H Camping Program. M.S. Thesis, Agricultural and Environmental Education. Major advisor: Stacy A. Gartin.

Frank Fidler, 2000. Economic Feasibility of Trout Production in WV: A Mixed Integer and QP Analysis. M.S. Thesis, Agricultural and Resource Economics. Major advisor: Gerard E. D'Souza and Dennis Smith.

<http://etd.wvu.edu/templates/showETD.cfm?recnum=1630>.

Harold Dan Junkins, 2000. The Influence of Participation in Secondary Agriculture Activities on Post-Secondary Pursuits of Agriculture Students in West Virginia. M.S. Thesis in Agricultural and Environmental Education. Major advisor: Stacy A. Gartin.

Edgar A. Leatherman, III, 2000. Benefits of the WV School for the Deaf Horticulture Program. M.S. Thesis, Agricultural and Environmental Education. Major advisor: Layle D. Lawrence.

Jason T. Morrison, 2000. Heavy Metal Redistribution in Soils Using Compost as a Soil Amendment. M.S. Thesis, Agricultural and Environmental Education. Major advisor: Robert G. Diener.

Doolarie Singh, 2000. Analysis of the Production Costs and Management Decisions of Sheep Producers in West Virginia. M.S. Thesis, Agricultural and Resource Economics. Major Advisor: Gerard E. D'Souza.

Jennifer Thomas, 2000. Listening Skills of Agriculture and Environmental Education Majors. M.S. Thesis, Agricultural and Environmental Education. Major advisor: Layle D. Lawrence.

Mary Williams, 2000. Evaluation of the International 4-H Youth Exchange Program. M.S. Thesis, Agricultural and Environmental Education. Major advisor: Layle D. Lawrence.

Division Students Completing a Non-Thesis Masters Degree in 2000

James Carr, Master of Agriculture, Forestry and Consumer Sciences. Major advisor: Stacy A. Gartin.

Howard Henderson, Master of Agriculture, Forestry and Consumer Sciences. Major advisor: Stacy A. Gartin.

Robert Morris, Master of Agriculture, Forestry and Consumer Sciences. Major advisor: Layle D. Lawrence

GRANTS AND CONTRACTS

Explanations

The names of Division faculty members are in **Bold Letters**

The names of Division students and recent graduates are in *Italics*

The names of members of the Division support staff are in ***Bold Italics***

External Grants and Contracts

Spending from external grants and contracts has continued to grow significantly. Since 1993, when we published the first Division Annual Report, annual spending (Division's share of grants) has grown from \$150,000 to over \$750,000 in 2000. Based on funding commitments received in 2000 for \$525,000, we expect growth in external funding to continue in 2001. The Division's share of the total face value of all grants that were active in 2000 was \$2.1 million.

List of External Grants and Contracts:

Canaan Valley Institute, \$22,000: "NRAC-2000-05GIS and Spatial Modeling Support and Consultation." **Jerald J. Fletcher** and ***Michael P. Strager***. August 16, 2000-August 15, 2001.

Canaan Valley Institute, \$80,000: "NRAC 2000-09 Canaan Valley Institute Landscape Assessment Tools." **Jerald J. Fletcher**, **Charles Yuill**, ***Michael P. Strager*** and ***Jacquelyn Strager***. December 1, 2000-December 31, 2001.

Maryland Bureau of Mines, \$35,000. "NRAC 2000-06-AML and Watershed Modeling System." **Jerald J. Fletcher** and ***Michael P. Strager***. September 15, 2000-July 31, 2001.

Maryland Department of Energy, \$32,789: "Technical Support for the MD AML Inventory and Data Base Development." **Charles Yuill**. May 7, 1999-March 31, 2002.

Maryland Department of the Environment, \$28,048: “Aerial Photography for an Inventory of the Maryland Coal Basins.” **Charles B. Yuill**. March 15, 2000-March 31, 2002.

Northeast Region Sustainable Agriculture Research and Education Program, \$217,247 (Division Share: \$12,000): “Systems of Transition from Conventional to Organic Agricultural Production.” James Kotcon, William Bryan, Louis McDonald and **Gerard E. D’Souza**. September 1, 1999-August 31, 2002.

Parsons Infrastructure Technology Group, \$546,326 (Division Share: \$154,072): “WV173-Phase II-Abandoned Mine Pool Flooding of the Pittsburgh, Ohio and Irwin Basins.” Paul Ziemkiewicz, **Jerald J. Fletcher**, and Joseph Donovan. October 1, 2000-September 30, 2001.

United States Army Corps of Engineers, \$45,000 (Division Share: \$31,221). “Ohio River Riparian Characterization.” **Charles Yuill** and Ronald Fortney. September 8, 2000-September 30, 2003.

United States Department of Agriculture, CSREES National Research Initiative, \$210,000 (Division Share: \$8,558): “Cow-Calf Production Systems in Appalachia.” William Bryan, Cameron Hackney, Louis McDonald, **Gerard E. D’Souza**, and Edward Prigge. December 1, 1998-November 30, 2002.

United States Department of Agriculture, Agricultural Research Service, \$274,185 (Division Share: \$20,414): “Pasture-Based Beef Systems for Appalachia: Land and Pasture Use, Supplementation and Systems Analysis.” William Bryan, Edward Prigge, Paul Lewis, **Gerard E. D’Souza**, Edward Rayburn, Louis McDonald, Phillip Osborne, and Alan Sexstone. -March 31, 2005.

United States Department of Agriculture, Cooperative State Research, Education and Extension Service, \$1,857,688 (Division Share: \$412,477): “Aquaculture Food and Marketing Development Project.” Rosemary R. Haggett, Robert Dailey, Kenneth Semmens, **Gerard E. D’Souza**, P. Brett Kenney, Cyril Logar, Patricia Mazik, Thomas Ponzurick and **Dennis K. Smith**. September 15, 1998-September 30, 2002.

United States Department of Agriculture, Forest Service, \$24,995: “NRAC 00-03 USFA-Adaptation of User Interface to ArcView-Gypsies.” **Charles Yuill** and **Jacquelyn Strager**. September 28, 2000-September 30, 2002.

United States Department of Agriculture, SARE, \$240,747 (Division Share: \$8,115): “Systems of Transition from Conventional to Organic Agricultural Production.” J. Kotcon and **Gerard E. D’Souza**. October 1, 1999-September 30, 2002.

United States Department of Energy/Federal Energy Technology Center, \$695,755 (Division Share: \$174,010): “WV 173—Monongahela Basin Mine Pool Project.” **Jerald J. Fletcher**.

United States Environmental Protection Agency, \$218,270 (Division Share: \$70,830): “Environmental Justice Through Pollution Prevention.” **Charles Yuill**, David Whaley, Susan Hunter, Jim Kotcon. January 1, 1999-December 31, 2000.

United States Geological Survey, \$54,054 (Division Share: \$31,221): “Ohio River Characterization and Change Detection Project.” **Charles Yuill** and Ronald Fortney. September 8, 2000-September 30, 2003.

WV Army National Guard, \$17,459: “NRAC 2000-08 GIS Technical Support for Camp Dawson.” **Jerald J. Fletcher** and *Michael P. Strager*. October 1, 2000-June 30, 2001.

West Virginia Department of Agriculture, \$539,678 (Division Share: \$80,650): “WVU-140- Increasing Farm Income by a Strategic Shift in Breeding Time for Ewe Flocks.” Keith Inskeep, Paul Lewis, **Dennis K. Smith**, Edward Rayburn and Tom McConnell. October 1, 1998-September 30, 2003.

West Virginia Department of Education, \$18,576: “Teacher Education in Agriculture: A Proposal Designed to Accomplish Professional Personnel Development Objectives in Vocational Education.” **Layle D. Lawrence** and **Stacy A. Gartin**. July 1, 2000-June 30, 2001.

West Virginia Division of Environmental Protection, \$110,000. “NRAC 99-01 Extending the Capabilities of the Watershed Characterization and Modeling System.” **Jerald J. Fletcher**. September 1, 1999-July 30, 2000.

West Virginia Division of Environmental Protection, \$519,200. “Development of Hollowfill Inventory for GIS Analysis from Permit Maps.” **Jerald J. Fletcher** and **Charles Yuill**. November 1, 1998-December 31, 2003.

West Virginia Division of Environmental Protection, \$101,015 (Division Share: \$35,643). “WRI 24 Enhanced Decision Support for TMDL’s.” Paul Zimkiewicz, **Jerald J. Fletcher**. April 17, 2000-September 28, 2001.

West Virginia Division of Natural Resources, \$9,639: “Remote Sensing for Stream/River Aquatic Habitat Characterization in West Virginia.” **Charles Yuill**. January 1, 2000-September 30, 2000.

West Virginia Legislature/Joint Committee on Governance and Finance, \$45,000: “NRAC-99-02: Mountaintop Removal Mining and Land Use.” **Charles Yuill**. October 13, 1999-December 31, 2001.

West Virginia Legislature/Joint Committee on Governance and Finance, \$185,000 (Division Share: \$10,000): “Mountaintop Mining/Valley Fill Technical Studies (for environmental impact statement ordered by Judge Hayden). David Greenstreet and **Thomas F. Torries**. October 13, 1999-January 15, 2001.

West Virginia Public Service Commission, \$50,000 (Division Share: \$4,938): “Restructuring and Deregulation of the Electric Utility Industry in West Virginia-Proposal for Advisory and Technical Services to the Public Service Commission of West Virginia.” Patrick Mann, Carl Irwin, **Thomas F. Torries**, Mohammed Choudhry and Ron Klein. July 19, 1999-July 31, 2000.

West Virginia Water Resource Research Institute, \$36,501: “NRAC 2000-01/WRI 131-AMD Models for TMDL Development and Implementation.” **Jerald J. Fletcher**. March 1, 2000-February 28, 2001.

Hatch Projects, WV Agricultural and Forestry Experiment Station

WVA00131—Global Dynamics of Poultry Trade. **Dale Colyer** and **Walter C. Labys**, October 15, 1996 – October 31, 2000.

WVA00144—Program Development in Agricultural Education. **Layle D. Lawrence** and **Stacy A. Gartin**, October 1, 1999 – September 30, 2004.

WVA00364/W-133—Benefits and Costs of Resource Policies Affecting Public and Private Land. **Jerald J. Fletcher**, **Tim T. Phipps**, and **Randall S. Rosenberger**, October 1, 1997 – September 30, 2002.

WVA00384—Ground and Surface Water Quality Improvement and Protection in West Virginia. **Alan R. Collins**, **Tim T. Phipps**, and **Jerald J. Fletcher**, February 1, 1996 – September 30, 2000.

WVA00392—Higher Education in Rural and Community Economic Development: The Case of West Virginia. **Tesfa G. Gebremedhin** and **Kerry S. Odell**, May 1, 1997 – April 30, 2001.

WVA00394—Rural Development Through Environmentally Enhanced Poultry Production. **Alan R. Collins**, **Dale Colyer**, and **Jerald J. Fletcher**, October 1, 1997 – September 30, 2002.

WVA00395—Commodities, Consumers, and Communities: Local Food Systems in a Globalizing Environment. **Gerard E. D’Souza** and **Dennis K. Smith**, October 1, 1997 – September 30, 2002.

WVA00397—Bioremediation of Pesticide Contaminated Media. **Robert G. Diener**, **Alan R. Collins**, B. Bearce and Gary Bissonnette, December 1, 1997 – September 30, 2002.

WVA00404—Impacts of Trade Agreements and Economic Policies on Southern Agriculture. **Dale Colyer**, **Walter C. Labys** and **Jerald J. Fletcher**, October 1, 1998 – September 30, 2003.

WVA00409—Policy Implications of Changes in Rural Employment, Poverty and Income Distribution in West Virginia. **Tesfa G. Gebremedhin, Dennis K. Smith and Peter V. Schaeffer**, October 1, 1999 – September 30, 2004.

WVA00411—Implications of the New Agriculture for West Virginia. **Gerard E. D’Souza, Alan R. Collins, Jerald J. Fletcher, Tim T. Phipps**, K. J. Semmens and **Dennis K. Smith**, October 1, 1999 – September 30, 2004.

SERVICE

Highlights of Accomplishments and Recognitions in 2000

Community Design Team Wins Governor’s Service Award

The Community Design Team (CDT) has won the West Virginia Governor’s Service Award for 2000. The CDT is a West Virginia University outreach activity. It organizes groups of professionals who visit West Virginia communities and provide them with advice on a variety of issues related to design and economic and community development. The CDT was started four years ago by a group of faculty from across campus, led by Scott Loveridge, an Extension professor. Several Landscape Architecture faculty members were among the CDT founders and Division faculty members are regular participants in CDT visits. Two years ago the leadership for the CDT was transferred to Elizabeth Messer Diehl, assistant professor in the Program in Landscape Architecture. The Division of Resource Management and Extension support the CDT program with transportation, secretarial, and other support. Professor Diehl also presented her work in community design to a national audience at the National Association of Land Grant Universities and State Colleges National Conference, which was held in Washington, DC in March 2000.

Professor Donald Armstrong Wins Award from Airport Coalition

Professor Armstrong and students in his landscape architecture course prepared a long-term development plan for the Morgantown Municipal Airport in 1999. The model of the proposed development is on exhibit in the airport terminal. The Hart Field Coalition, Inc., in giving Professor Armstrong its Leadership Award, recognized that the work by Professor Armstrong and his students is critical to enhancing the airport’s contributions to the regional economy. The project had been funded through a \$15,000 grant that was secured by Professor Armstrong. An anonymous donor made the grant.

Alexander Karther's Design Recognized in Professional Magazine

Professor Karther's master plan for revitalizing the river front along the Monongahela River in Star City, West Virginia, is being presented in full-page article in Landscape Architecture, January 2001 (page 22). Landscape Architecture is the official journal of the American Society of Landscape Architects. "The schematic master plan encompasses a one-mile site extending from the center of Star City." Professor Karther's volunteer contribution already has had a major impact: "The design proposal was used to acquire a \$350,000 "Rails-to-Trails" grant from the state of West Virginia to assist in building the circulation components of the project." Recently another \$100,000 has been added to the grant. In 2001 the community will be looking for engineers and firms capable of building a barge-like structure, and important step toward the implementation of Professor Karther's plan.

List of Service Rendered to the State and Professions

Donald R. Armstrong

- Organizer, coordinator, and instructor for the Landscape Design Study Course 3, for the South Atlantic Regional National Council of State Garden Clubs, May 21-24. West Virginia University, Morgantown, WV.
- Team Leader, WV Community Design Team Screening Visit to Summersville, WV, to assess design needs. November 20.
- Co-author of "Welcome to Historic Hinton" (Tourism, Recreation and Natural Resources section), a report for Hinton, WV, through the WV Community Design Team, January.
- Member, West Virginia Community Design Steering Committee.

Harry N. Boone, Jr.

- Judge, Poster Contest at American Association of Agriculture Educators Conference, December.
- Member, Research Committee of the American Association of Agriculture Educators.
- Judge, State FFA Preliminary Prepared Speaking Contest and State Computers in Agriculture Contest, respectively. July 13, Cedar Lakes, WV.
- Judge, WV FFA Conservation Program, June.
- Results Coordinator, WV 4-H and FFA Equine Judging Contest, June 19, Clarksburg, WV, June 19.
- Results Coordinator, WV 4-H and FFA Dairy Judging Contest, August 13, Weston, WV.
- Results Coordinator, WV Agriculture Career Development Events (Judging Contests), September 27-29, West Virginia University, Morgantown, WV.
- Member and Secretary, Journal of Agricultural Education Managing and Review Board.

Alan R. Collins

- Presenter of watershed assessment results to a meeting of the Dunkard Creek Watershed Association. October 12, Blacksville, WV. Dr. Collins wrote and obtained the grant that funded students to conduct the assessment.
- Presenter at a stream valuation workshop for representatives from state and federal agencies and from non-profit organizations interested in valuing stream restoration. October 13, Morgantown, WV.
- Secretary-Treasurer, Northeastern Agricultural and Resource Economics Association.

Dale Colyer

- Planning of Land Use Conference/Public Meeting in the Eastern Panhandle. Cooperative effort with Shepard College.
- Reviewer of grant proposals to the National Research Initiative Program of the U.S. Department of Agriculture.

Elizabeth Messer Diehl

- Director, WV Community Design Team. Provided organizational support, leadership services, and assumed responsibility for report production for five Community Design Team Visits to West Virginia Communities in 2000. The program was recognized for excellence by the 2000 Governor's Service Award (see above).
- Managing Editor, Journal of Therapeutic Horticulture.
- Vice President, American Horticultural Therapy Association, Board Member, and Grant Program Manager.
- Board Member and Site Committee Co-Chair, Morgantown, WV, Fun Factory (Children's Museum).

Robert G. Diener

- Expert witness, attorney general, for circuit court in Wellsburg, WV on waste management, composting, and odor considerations. Prepared several technical reports.
- Presented a 3-hour seminar on outdoor lighting to the West Virginia Garden Club.

Gerard E. D'Souza

- Member, Board of Directors of the Northeastern Agriculture and Resource Economics Association.
- Chair, Audit Committee of the Northeastern Agriculture and Resource Economics Association.
- Presentation on the economics of aquaculture to participants of the WV Aquaculture Forum, August 1, Flatwoods, WV.

Jerald J. Fletcher

- Member of the Economic Statistics and Information Resources Committee, American Agricultural Economics Association.
- President, W-133 Regional Project.
- Member and Chair of the Board of Director and Member of the Council of Professional Associations on Federal Statistics, representing the American Agricultural Economics Association.
- Planning of Land Use Conference/Public Meeting in the Eastern Panhandle. Cooperative effort with Shepard College.

Stacy A. Gartin

- Secretary/President Elect, Eastern Region of the American Association for Agriculture Educators. Member of Outstanding Young Member Selection Committee.
- Executive Committee, Five Star Consortium (WV, PA, DE, NJ, MD), Hershey, PA.
- Coordinator, WV Agriculture Career Development Events (Judging Contests), September 27-29, West Virginia University, Morgantown.
- Assistant Coordinator, State Dairy Cattle Career Development Event, Jackson's Mill.
- Coordinator, State Equine Career Development Event, 4T Arena, Fairmont, WV.
- Member, Joint Staff Agricultural Education Conference, West Virginia.
- Member, Program and Policy Committee, West Virginia Vocational Agriculture Teachers Association.
- Advisor, Northern District (of West Virginia) Agriculture Teachers.
- Coordinator, State FFA Degree Review, Northern District.

Tesfa G. Gebremedhin

- Member, Technical Advisory Committee of the Northeastern Regional Center for Rural Development.
- Member, Graduate Students Paper Award Committee, Southern Agricultural Economics Association.

Alexander G. Karther

- Member, Planning Committee, Star City, WV Riverfront Vision 2000. Assisted in development of master plan updating and outline of land use requirement. Provided extensive *pro bono* design services, which were featured in Landscape Architecture (see above).
- Member, Educational Council and International Committee, respectively, of the Industrial Designers Society of America.

Walter C. Labys

- Member of the Editorial Board, Environmental and Resource Economics.
- Member of the Board, West Virginia Wine and Jazz Festival. Organizer of Wine Evaluation Panel.
- Member, Scientific Committee, Group for Analyses of Primary Commodity Markets. University of Grenoble, France.

Layle D. Lawrence

- Co-coordinator and coordinator of agricultural mechanics contest, WV Agriculture Career Development Events (Judging Contests), September 27-29, West Virginia University, Morgantown.
- Judge, Public Speaking Contests, State FFA Convention, July 13, Cedar Lakes, WV.
- Editor, West Virginia Ag Ed News and Views.

George W. Longenecker

- President and Executive Director, West Virginia Botanic Garden, Inc.
- Landscape Advisor and Student Internship Coordinator, Fallingwater, Bear Run, PA.

Steven B. McBride

- Team Leader, WV Community Design Team to West Union, WV. May 2000.
- Team Leader, WV Community Design Team to Madison, WV. December 2000.
- Member, City of Morgantown, WV Design Review Board.
- Member, City of Morgantown, WV Beautification Commission.
- Member, Main Street, Morgantown, WV Design Committee.

Daniel Miller

- Identification of high volume water discharges from inactive mine sites in West Virginia. In cooperation with coal, conducted trout bioassay research at four mine sites. Establishing aquaculture as a post mining land use could result in local economic development through fee fishing as well as land reclamation savings for the coal industry.
- Developed a digital data base of spring and mine water sources in West Virginia.

Kerry S. Odell

- Member, Program Improvement Committee of the American Association of Agricultural Education.
- Eastern Secretary, American Association of Agricultural Education.
- Manuscript Judge, WV FFA Prepared Speaking Contest, and Judge, WV FFA Computers in Agriculture Contest. July 13, Cedar Lakes, WV.
- Coordinator, Program Delivery, Monongalia County, WV 4-H Officer Training Program, November 11.

Tim T. Phipps

- Planning of Land Use Conference/Public Meeting in the Eastern Panhandle. Cooperative effort with Shepard College.
- Provided/produced map of WVU properties to aid land-use planning decisions to Monongalia County, WV League of Women Voters, January.
- Program Reviewer for the U.S. Department of Agriculture's National Research Initiative, Markets and Trade Panel.

Randall S. Rosenberger

- Member of West Virginia Community Design Team to Grantsville, WV, August 17-19.
- Development of recreation values for the U.S. Forest Service Strategic Plan (revision 2000), U.S. Department of Agriculture, Forest Service, Strategic Planning and Resource Assessment Office, June 18-19, Washington, DC.
- Provided assistance and guidance for a Canaan Valley Institute request for developing a heritage tourism research project for the State of West Virginia, October 11-13.
- Planning of Land Use Conference/Public Meeting in the Eastern Panhandle. Cooperative effort with Shepard College.

Peter V. Schaeffer

- Member of the Board of Directors, Member of the Board of Directors' Executive Committee, and Treasurer, Lightstone Foundation, Inc., Moyers, Pendleton County, WV.
- Member, West Virginia Community Design Steering Committee.
- Member of the Financial Oversight Committee of the Regional Science Association International.
- Member of the Editorial Board, International Regional Science Review.
- Member of the Editorial Board, Journal of Planning Education and Research.
- Member of the Editorial Board, Journal of Planning Literature.

Sanjay B. Shah

- Sanjay B. Shah is a WVU Extension faculty member with a non-tenure track teaching appointment in the Division of Resource Management. As part of his service obligation as an Extension specialist, he responds to queries from stakeholders and clients on engineering and agriculture-related issues.

Dennis K. Smith

- Planning of Land Use Conference/Public Meeting in the Eastern Panhandle. Cooperative effort with Shepard College.
- Research proposal reviewer for the U.S. Department of Agriculture's Small Business Innovation Research Program.

Jacquelyn M. Strager

- Co-taught "Introduction to ArcView GIS" short courses to natural resource professionals from WV DEP and other state agencies.
- Provided short course to WV Division of Environmental Protection personnel on the use and applications of the Watershed Modeling and Characterization System.

Michael P. Strager

- Co-taught "Introduction to ArcView GIS" short courses to natural resource professionals from WV DEP and other state agencies.

Thomas F. Torries

- Member of the D-5 (Coal) Committee of the American Society of Testing and Materials (ASTM).
- President, Mineral Economics Management Society (MEMS).
- Conference Chair, 2000 Annual Meetings of the Mineral Economics Management Society to be held in Pittsburgh, April 2001.
- Member, Mineral Economics Award Committee of the Society for Mining, Metallurgy, and Engineering.
- Consultant to West Virginia Division of Tax and Revenue on reserve coal taxation.
- Consultant to U.S. Internal Revenue Service on international coal export prices that justified the refund of \$1.0 billion of tax funds to miners for the settlement of the Black Lung Export Tax, which was initiated in 1978.

Charles B. Yuill

- Member of Technical Issues Committee, Society for Conservation GIS.
- Coordinator for Gap Mid-Atlantic Region.
- Coordinator for Gap West Virginia to Southeast.
- West Virginia Representative to Chesapeake Bay Program
- Representative, West Virginia GIS Steering Committee