

Robert D. von Bernuth

Professor and Director
School of Planning, Design and Construction
Michigan State University
101 Human Ecology Building
East Lansing, Michigan 48824-1323
(517)-432-6379 FAX (517) 432-8108

Home Address:
11060 Cutler Road
Eagle, Michigan 48822-9737
(517) 626-6813
E-mail: vonbern@msu.edu

EDUCATION:

Ph.D., Engineering, University of Nebraska, Lincoln, Nebraska
MBA, Claremont Graduate University, Claremont, California
MS, Engineering, University of Idaho, Moscow, Idaho
BS, Agricultural Engineering, Colorado State Univ., Ft. Collins, Colorado

EXPERIENCE:

- 2004- Director, School of Planning, Design, and Construction, **Michigan State University**.
Major accomplishments: Led the integration of four accredited programs into one school. Generated about \$1.5 million dollars in gifts and endowments since inception. Developed the first Ph.D. in Construction Management. School has 40 faculty, 900 students, and a budget of about \$4 million.
- 2000- Director, Construction Management Program, **Michigan State University**.
- 1997-2003: Professor, Biosystems Engineering; **Michigan State University**. Taught environmentally related courses in Engineering, Fisheries & Wildlife, and Animal Science. Conducted research in irrigation systems and waste systems.
- 1997: Endowed Chair in Agricultural Systems, Minnesota Institute for Sustainable Agriculture, **University of Minnesota**. (While on sabbatical leave from Michigan State University). Developed a connection between the university and disenfranchised special interest groups.
- 1990 - 1997: Professor and Chairman, Biosystems and Agricultural Engineering Department, **Michigan State University**. Administered teaching, research, extension, and outreach for Biosystems Engineering, Building Construction Management, and Agricultural Technology and Systems Management programs. Led the formation of Biosystems Engineering.
- 1982 - 1990: Associate Professor; Professor, **University of Tennessee**.
Taught upper level soil and water engineering, conducted research in erosion processes, irrigation systems design, and irrigation management.
- 1980 - Present: Principal, **von Bernuth Consulting**.

Connect to industry partners via marketing and product development. (See client list)

1980 - 1982: Instructor, **University of Nebraska.**

Taught upper level courses in engineering. Conducted research on irrigation system capacities, droplet dynamics, and droplet effects upon soil.

1979 - 1980: Product/Marketing Manager, **Rain Bird** Sales Corporation.

Administered sales and marketing efforts for agricultural products for U. S. market. Interfaced with engineering in developing product specifications and writing test procedures. Led new product development team.

1976 - 1979: Sales and Market Manager, **Rain Bird.**

Developed programs to address needs of irrigation market. Supervised 12 district sales engineers and 3 office personnel.

1974 - 1976: District Sales Engineer, **Rain Bird.**

Interfaced with original equipment manufacturers. Drew specifications for products, and matched product lines to needs of manufacturer. Recognized as top sales engineer.

1973 - 1974: Nuclear Power Engineer, **Bettis Atomic Power Laboratories.**

1969 - 1998: Naval Flight Officer, **United States Naval Reserve.**

Flew 275 combat missions in aircraft carrier based A-6 aircraft. Flew P-3 aircraft in peacetime antisubmarine missions. Commanded three different reserve units. Captain (0-6) retired.

PERTINENT EMPLOYMENT DURING COLLEGE:

1968 **Gates Farms Incorporated.** Maintained power plants and irrigation systems.

1967 Student Body President, **Colorado State University.** Led the development of a new student constitution.

1967 Summer trainee program, **John Deere Des Moines Works.**
Designed and prototyped equipment.

1964,5 **United States Forest Service,** Led a construction crew building campgrounds in the high Colorado Rockies.

PROFESSIONAL REGISTRATION:

Professional Engineer: Nebraska (E-4152)

PROFESSIONAL MEMBERSHIPS:

American Society of Civil Engineers (ASCE)--Member

Fulbright Alumni Association--Member
The Irrigation Association--Lifetime Technical Member
American Society of Agricultural and Biological Engineers (ASABE)—Fellow

FOUNDATIONS AND BOARDS

The Irrigation Association Education Foundation—Board of Directors
Tennessee CNMP Certification Curriculum Advisory Committee

SPECIAL TRAINING:

Naval Flight Officer Training	1969-1970
Nuclear Weapons Training, United States Navy	1971
Nuclear Power Engineering School, Bettis Laboratories	1973
Harvard Agribusiness Seminar	1978
Ford/MSU TQL Leadership Seminar	1995

PATENT:

#4,168,033: Wear Proof Spray Nozzle Device

LANGUAGES:

English, Spanish, Portuguese, some German

INTERESTS:

Aviation: licensed pilot
Agribusiness: owner of a farm
Antique cars and tractors

HONORARY SOCIETIES:

Alpha Epsilon	Kappa Mu Epsilon	Sigma Lambda Chi
Alpha Zeta	Omicron Delta Kappa	Sigma Xi
Gamma Sigma Delta	Phi Kappa Phi	Tau Beta Pi

COORDINATION ACTIVITIES/MULTI-AGENCY COLLABORATION:

School of Planning, Design, and Construction (SPDC). SPDC is a school comprised of four independent programs from three different colleges. Interior Design, Landscape Architecture, Urban and Regional Planning, and Construction Management make up the school. The school has nearly 1000 students and 40 faculty. It is the home of the first Ph.D. in Construction Management in the United States. *Founding Director.*

Michigan Agricultural Environmental Assurance Program (MAEAP). MAEAP is a consortium of producers, environmental and conservation groups, state agencies and MSU for

the development of a proactive environmental assurance program to ensure that livestock producers in the state engage in cost effective pollution prevention practices and are in compliance with environmental regulations. *Co-founder.*

Michigan Agricultural Electric Council (MAEC). MAEC is a consortium of electrical producers and distributors in Michigan. The council funds a staff position at MSU for research and education in electrical distribution. *Founding Chairman.*

Housing Education and Research Center (HERC). HERC is a partnership between the Michigan Association of Home Builders and the Construction Management Program at MSU and a member of the National Consortium of Housing Research Centers. HERC funds research and outreach through MSU. *Chairman of Department during formation.*

PUBLICATIONS and KEYNOTE PRESENTATIONS: [131]

Promotional Literature and Video Tapes [3]

1. Allman, Scott, Francie Todd, and **R. D. von Bernuth**. 2005. The School of Planning, Design, and Construction at Michigan State University. CD (8 min).
2. **von Bernuth, R. D.**, W. Crane, and R. Fick. 1995. "Biosystems Engineering at Michigan State University. Video tape (15 min). ASAE Blue Ribbon Award.
3. **von Bernuth, R. D.** and D. Cron. 1995. "Seeking Sustainable Solutions; Biosystems Engineering". Promotional view book, Michigan State University. MSU Division of Public Relations. 10 pp.

Extension Bulletins: [2]

1. **von Bernuth, R. D.** and Cynthia Shaw. 1998. "Manure Management: Planning Gets Results" Michigan State University Extension Bulletin E-2862. 4 pp.
2. **von Bernuth, R. D.** 1996. "Manure Management." Michigan State University Extension Bulletin PRO-509. 12 pp.

Book Chapters: [4]

1. **von Bernuth, R. D.** 2000. The Role of Agricultural Fairs in Agricultural Innovation. In Agricultural Fairs in America. Michigan State University Museum. ISBN: 0-944311-17-2. 104 pp.
2. Alocilja, E.C., **R. D. von Bernuth**, and D.K. Beede. 1996. Managing Dairy-Crop Production Systems for Zero-Excess Phosphorus: a Multicriteria Optimization Approach. In Applications of Systems Approaches at Farm and Regional Levels. Kluwer Academic Publishers. pp. 115-128.

3. Kruse, E. G., D. Bucks, and **R. D. von Bernuth**. 1990. "Comparison of Irrigation Systems." Section VI, Chapter 16, pp 475-508 of Irrigation of Agricultural Crops. American Society of Agronomy. Madison, WI. 1218 pp.
4. **von Bernuth, R. D.** and K. H. Solomon. 1986. "Emitter Construction." Chapter 2.1 of Trickle Irrigation for Crop Production. pp. 27-52. Elsevier Science Publishers. The Netherlands.

Peer Reviewed Articles: [40]

1. F. Pouliot, S. Godbout, V. Dufour, **R.D. von Bernuth**, and J. Hill. 2005. Efficacité de la séparation fèces-urine sous cailleboitis. *Techni Porc. Institut Technique du Porc*. Vol. 28, No 4, pp 35-39.
2. H. Kim-Yang, **R. D. von Bernuth**, J. D. Hill, and S. H. Davies. 2005. Effect of Ozonation on Odor and the Concentration of Odorous Organic Compounds in Air in a Swine Housing Facility. *TRANS of the ASAE*. Vol. 48, No.6, pp. 2297-2302.
3. **R. D. von Bernuth**, J. D. Hill, E. Henderson, S. Godbout, D. Hamel, and F. Pouliot. 2005. Efficacy of a Liquid/Solid Isolation System for Swine Manure. *TRANS of the ASAE*. Vol. 48, No. 4, pp. 1537-1546.
4. N. Islam and **R. D. von Bernuth**. 2005. The impact of low dissolved oxygen in recharge water on arsenic pollution in groundwater of Bangladesh. *Natural Arsenic in Groundwater: Occurrence, Remediation and Management*. Balkema Publishers, The Netherlands. 504 pp. ISBN 04 1536 700X, 2005.
5. **R.D. von Bernuth**. The Built Environment and Public Health, in Volume II, Construction Management Position Papers, Proceedings of the NSF - PATH Housing Research Agenda Workshop. At <http://www.pathnet.org/sp.asp?id=12201>. February 2004.
6. N. Islam and **R. D. von Bernuth**. 2003. Arsenic Transportation in the Groundwater of Bangladesh and the Policy of Irrigation Development. *J. Phys. IV France*. 2003. 107:661-665.
7. Otto, E. R., M. Yokoyama, S. Hengemuehle, **R. D. von Bernuth**, T. van Kempen, and N. L. Trottier. 2003. Ammonia, volatile fatty acids, phenolics and odor offensiveness in manure from growing pigs fed diets reduced in protein concentration. *J. Anim. Sci*. 2003. 81:1754-1763.
8. **von Bernuth, Bob**. 2000. Manure Management Plans. *Michigan Dairy Review*, Vol 5, No. 3., pp 1-3. East Lansing, MI.
9. Prince, T. J., A. L. Sutton, **R. D. von Bernuth** and M. W. A. Verstegen.,2000. Application of nutritional knowledge for developing econutrition feeding programs on

commercial swine farms. *Proc. Am. Soc. Anim. Sci.* 1999. Available at:
<http://www.asas.org/jas/symposia/proceedings/0931.pdf>.

10. **von Bernuth, R. D.** and G. Salthouse. 1999. Manure and Fertilizer Balance: A Methodology Applied to Michigan. *Applied Engineering in Agriculture*. Vol. 15 No. 6, pp 695-700.
11. **von Bernuth, R. D.** 1999. Manure Management at Michigan State University. *Michigan Dairy Review*. Vol. 4, No 1. February 1999. pp 3-6.
12. Callahan, L.M., Freeland, R.S., **von Bernuth, R.D.**, Shepard, D.P., Parham, J.M. and Garrison, J.M. Geotextiles as substitutes for choke layer sand in USGA greens. I. Water infiltration rates and water retention. *International Turfgrass Society Research Journal*. Vol 8, (1997) pp. 65-74.
13. Callahan, L.M., Freeland, R.S., **von Bernuth, R.D.**, Shepard, D.P., Parham, J.M. and Garrison, J.M. Geotextiles as substitutes for choke layer sand in USGA greens. II. Particle migration and condition of separation layers. *International Turfgrass Society Research Journal*. Vol 8, (1997) pp. 75-86.
14. Deming, E.J., C.R. Mote, **R. D. von Bernuth**, and L.N.D. Potgieter. 1992. An Animal Model to Assess the Potential for Viral Disease Transmission from Lawns Irrigated with Wastewater. *Journal of Environmental Science and Health*. Vol. A27(8), pp. 2199-2211.
15. Fan, Y., F.D. Tompkins, E.C. Drumm, and **R. D. von Bernuth**. 1992. Generation of Flow Nets using FEM Nodal Potentials and Bilinear Shape Functions. *Intl. Journal for Numerical and Analytical Methods in Geomechanics*. Vol. 16, pp. 425-437.
16. Seginer, I., D. Kantz, D. Nir, and **R. D. von Bernuth**. 1992. Indoor Measurement of Single-Radius Sprinkler. *TRANS of the ASAE*. Vol. 31(2), pp. 523-533.
17. **von Bernuth, R. D.**, D. Baird, I. Seginer, and D. Nir. 1992. Comparison of Overlapped Wind-Distorted Sprinkler Patterns with Field Measured Overlapped Patterns. *Irr. Sc.*
18. Vories, E.D. and **R. D. von Bernuth**. 1990. A Laboratory Study of the Erodibility of Disturbed Soil. *TRANS of the ASAE*. Vol. 33(5), pp. 1497-1502.
19. Seginer, I. , D. Nir, and **R. D. von Bernuth**. 1990. Simulation of Wind-Distorted Sprinkler Patterns. *Journal of Irrigation and Drainage*. Vol. 117 (2), pp. 285-306.
20. **von Bernuth, R. D.** 1990. "Undertree Sprinkler Systems for Frost Protection." *Proc. 3rd Natl. Irrigation Symposium, ASAE*. pp. 577-582.
21. **von Bernuth, R. D.** and Ido Seginer. 1990. "Wind Considerations in Sprinkler System Design", *Proc. 3rd Irrigation Symposium, ASAE*. pp. 334-339.

22. **von Bernuth, R. D.** 1990. "Sprinkler System Design for Frost Protection". Proc. National Conf. on Irr. and Drainage. *IR and WRR Divs, ASCE*. pp. 39-45.
23. Freeland, R.S., L.M. Callahan, and **R. D. von Bernuth**. 1990. Instrumentation for Sensing Rhizosphere Temperature and Moisture Levels within the USGA-Specified Topsoil Mixture. *Applied Engineering in Agriculture*. Vol. 6(1). pp. 106-110.
24. **von Bernuth R. D.** 1990. Simple and Accurate Friction Loss Equation for Plastic Pipe. *Journal of Irrigation and Drainage*. Vol. 116, No. 2. pp. 294-298.
25. **von Bernuth, R. D.** and Del Baird. 1990. Performance Characteristics of Pressure Regulators. *TRANS of the ASAE*. Vol. 33(1), pp. 145-150.
26. **von Bernuth, R. D.** 1989. Hydraulic Friction Factors for Pipe Flow. *Journal of Irrigation and Drainage*. Vol. 115, No. 5, pp. 916-918.
27. **von Bernuth, R. D.** and Joanne Logan. 1989. "Drought in Tennessee: Implications on Irrigation System Capacity". *Proc. National Water Conference, IR and WRR Divs/ASCE*. pp. 465-470.
28. **von Bernuth, R. D.** and Tonya Wilson. 1989. Friction Factors for Small Diameter Plastic Pipes. *Journal of Hydraulic Engineering*. Vol. 115, No. 2, pp. 183-192.
29. Hoffman, F. O. ... **R. D. von Bernuth** ... 1989. "Pasture Grass Interception and Retention of ¹³¹I, ⁷Be and Insoluble Microspheres Deposited in Rain." *Oak Ridge National Laboratory, Environmental Sciences Div. Publication No. 3247*. Oak Ridge, Tennessee 37831-6285.
30. **von Bernuth, R. D.** 1988. Effect of Trajectory Angle on Performance of Sprinklers in Wind. *Journal of Irrigation and Drainage Engineering*. Vol. 114, No. 4, pp. 579-587.
31. Washburn, Y. M. and **R. D. von Bernuth**. 1988. Faculty Development through Foreign Language Study and Travel Abroad. *International Education*. Vol. 17, No. 2, pp. 21-26.
32. Vories, E. D., **R. D. von Bernuth**, and R. H. Mickelson. 1987. Simulating Sprinkler Performance in Wind. *Journal of Irrigation and Drainage Engineering*. Vol. 113, No. 1, pp. 119-130.
33. Vories, E. D. and **R. D. von Bernuth**. 1986. Single Nozzle Sprinkler Performance in Wind. *TRANS of the ASAE*. Vol. 29(5), pp. 1325-1330.
34. **von Bernuth, R. D.** and J. R. Gilley. 1985. Evaluation of Center Pivot Application Packages Considering Droplet Induced Infiltration Reduction. *TRANS of the ASAE*. Vol. 28(6), pp. 1940-1946.

35. Shelton, C. H., **R. D. von Bernuth**, and S. P. Rajbhandari. 1985. A Continuous Application Rainfall Simulator Using Air Injection. *TRANS of the ASAE*. Vol. 28(4), pp. 1115-1119.
36. Kohl, R. A., **R. D. von Bernuth**, and G. Huebner. 1985. Drop Size Measurement Problems Using a Laser Unit. *TRANS of the ASAE*. Vol. 28(1), pp. 190-192.
37. **von Bernuth, R. D.** and J. R. Gilley. 1984. Sprinkler Droplet Size Distribution Estimation from Single Leg Test Data. *TRANS of the ASAE*. Vol. 27(5), pp. 1435-1441.
38. **von Bernuth, R. D.**, D. L. Martin, J. R. Gilley, and D. G. Watts. 1984. Irrigation System Capacities for Corn Production in Nebraska. *TRANS of the ASAE*. Vol. 27(2), pp. 419-422.
39. **von Bernuth, R. D.** 1983. Uniformity Design Criteria Under Limited Water. *TRANS of the ASAE*. Vol. 26(5), pp. 1418-1421.
40. **von Bernuth, R. D.** 1983. Nozzling Considerations for Center Pivots with End Guns. *TRANS of the ASAE*. Vol. 26(2), pp. 419-422.

Invited Papers: [6]

1. **R. D. von Bernuth**, 2001. "Separate Ways." *Resource Magazine*. September, 2001. Vol 8, No. 9, pp 9-10.
2. **R. D. von Bernuth**, 2001. Michigan's Proactive Stance on Nutrient Management for the Dairy Industry. *Proceedings of the First Environmental Summit*. Consolidated Nutrition, L.C. Decatur, IN. 24 pp.
3. T. J. Prince, A. L. Sutton, **R. D. von Bernuth**, and M. W. A. Verstegen. 1999. Application of Nutritional Knowledge for Developing Eco-Nutrition Feeding Programs on Commercial Swine Farms. Presented at the 1999 National American Society of Animal Sciences meeting, July 21-23, Indianapolis, IN.
4. **von Bernuth, R. D.** 1997. Engineering Research Challenges for Sustainable Agriculture. Keynote Address, Proceedings of the Joint International Conference on Agricultural Engineering, Dhaka, Bangladesh., Vol. III, pp 754-758. Keynote Address
5. Bralts, V.F., W.H. Shayya, and **R. D. von Bernuth**. 1995. Irrigation Management and Water Resources Planning Using the SCS-Scheduler. Presented at the Integrated Water Resources Planning for the 21st Cent. Conf., ASCE. Cambridge, MA. May 7-11, 1995.
6. **von Bernuth, R. D.** 1993. Surface and Sprinkler Irrigation-A Comparison of Uniformities and Efficiencies. *Proceedings of the 6th International Conference on Irrigation*. Tel Aviv, Israel., pp. 5-16. Keynote Address.

Software in the Public Domain [4]

1. Manure Application Risk Index (MARI). Software developed by Jerry Grigar and Diane Pahl, USDA, NRCS and **RD von Bernuth**, Michigan State University. http://www.maeap.org/mari_oct02.xls.
2. Mass Balance Spreadsheet. Software developed by **R. D. von Bernuth**, Michigan State University. <http://www.maeap.org/cnmp.htm>.
3. Shayya, W.H. and **R.D. von Bernuth**. 1992. AWMP: Animal waste management computer package using CERES-Maize. Department of Agricultural Engineering, Michigan State University, East Lansing, Michigan 48824.
4. Shayya, W.H. and **R.D. von Bernuth**. 1992. LEACHP: A software to predict nitrogen leaching potential from soils. Department of Agricultural Engineering, Michigan State University, East Lansing, Michigan 48824.

Proceedings: [11]

1. Francis Pouliot, Stéphane Godbout, Valérie Dufour, **Robert D. von Bernuth**, and Jeff Hill. 2005. Évaluation de l'efficacité d'un système de séparation fèces-urine sous caillebotis en engraissement : bilan de masse et caractérisation des sous-produits. Journées Recherche Porcine, **37**, 45-50.
2. Humenik, F. J. , **R. D. von Bernuth**, T.L. Richard and F. Michael Jr., Livestock Housing Design to Enhance Management of Liquid Stream and In-House Gases. Proceedings of the Fourth International Livestock Waste Management Symposium and Technology Expo, Global Prospective in Livestock Waste Management, Penang, Malaysia, pp. 113-118, 2002.
3. Barnett, M., Robinson, B., Tschantz, B., Lambert, R., Lessman, G., and **von Bernuth, R. D.**, 1991 "Reuse of an Industrial Wastewater at Saturn," in Proceedings of the 1991 Specialty Conference on Environmental Engineering. Pp 218-223 of ASCE, 0-87262-810-8, pp 824.
4. Gilley, J. R. and **R. D. von Bernuth**. 1987. Application of Infiltration Models to Center-Pivot Design. Proceedings of the International Conference on Infiltration Development and Application, Water Resources Research Center, Honolulu, HI.
5. **von Bernuth, R. D.** 1985. "Irrigation Uniformity Considerations for Chemigation." Proceedings of the 3rd National Symposium on Chemigation, Rural Development Center, Tifton, GA.
6. **von Bernuth, R. D.** 1985. "Types of Irrigation Systems." Proceedings of the 1985 Peach Conference, National Peach Council, Martinsburg, WV.

7. Wilkerson, J. B., **R. D. von Bernuth**, L. R. Wilhelm, and F. D. Tompkins. 1985. Microcomputer Interface for Measurement of Water Droplets. Proceedings of the National Conference on AgriMation. Society of Manufacturing Engineers. Dearborn, MI, 48121.
8. **von Bernuth, R. D.** 1983. "Center Pivot Sprinkler Packages: Pressure vs. Runoff." Annual Technical Conference Proceedings, The Irrigation Association, December, 1983.
9. **von Bernuth, R. D.** 1982. "Reduced Pressure Pivots and Pressure Regulators," Proceedings of the Nebraska Irrigation Short Course, January, 1982.
10. **von Bernuth, R. D.** 1981. "Nozzling Center Pivots," Proceedings of the Nebraska Irrigation Short Course, January, 1981.
11. **von Bernuth, R. D.** 1980. "New Concepts in Agricultural Sprinklers." 1980 Annual Technical Conference Proceedings, The Irrigation Association February 25, 1980.

Invited Conference Moderator [2]

1. National Irrigation Symposium: Fourth Decentennial; Phoenix, AZ; November 2000
2. Michigan Irrigation Conference: Homer Nowlin Endowment Memorial Conference.

Other Papers and Publications: [59]

1. Hamel D., Pouliot F., Leblanc R., Godbout S., **von Bernuth R.D.**, Hill J., 2004. Évaluation technico-économique d'un système de séparation liquide-solide des déjections à la source dans un bâtiment porcin et les impacts sur l'environnement. Rapport d'étape. Centre de développement du porc du Québec inc., Ste-Foy, Québec, Canada. 81 pp.
2. **R. D. von Bernuth**, J. Hill, E. Henderson, S. Godbout, D. Hamel, and F. Pouliot. 2004. "Efficacy of a Liquid/Solid Isolation System for Swine Manure". Presented at ASAE International Meeting, Ottawa, Canada. July 2004. Paper # 044131.
3. J. Lorimor, **B. von Bernuth**, and N. Joshi. 2003. "Emergency Action Plans". Chapter 9 of National Certification Project Lesson Plans. Midwest Plan Services. Ames, IA. http://www.cals.ncsu.edu/waste_mgt/natlcenter/center.htm
4. E. M. Henderson, J. D. Hill, and **R. D. von Bernuth**. 2003. "Scoop on Poop". Agricultural Engineering Newsletter, Nov/Dec 2003. http://www.egr.msu.edu/age/aenewsletter/1_nov_dec_03/scoop11_03.htm.

5. J. D. Hill and **R. D. von Bernuth**. 2003. "Development and Utilization of Michigan State University Continuous Emissions Monitoring System." MSU Pork Quarterly. Vol. 28, No. 3. Pp 2-3.
6. **R. D. von Bernuth**. 2003. "Biofilters". MSU Pork Quarterly. Vol. 28, No. 3. Pp 6-7.
7. J. B. Gerrish, S. H. Davies, S. J. Masten, R. L. Ledebuhr, and **R. D. von Bernuth**. 2003. "Ozonation of Swine-waste Liquids at Full-scale. Presented at the ASAE Annual International Meeting, Las Vegas, NV. Paper #034056.
8. M. Nazrul Islam, **R. D. von Bernuth**, S. Davies, and H. R. Chowdhury. 2003. "Low Cost Arsenic Removal Techniques Using Existing Resources". Presented at 3rd World Water Forum, Session IWRM-37, Shiga, Japan. March, 2003.
9. Callahan, L. M., J. M. Parham, A. M. Saxton, R. S. Freeland, R. D. von Bernuth, D. P. Shepard, and J. M. Garrison. 2003. Nutrient Retention in a USGA Green Rootzone over Seven Years. Tennessee Agricultural Experiment Station Bulletin 701. Knoxville, TN. 67 pp.
10. Jeff Hill, **R. D. von Bernuth**, and E. C. Cline. 2002. "Monitoring and Regulation of Ozonation Systems in Livestock Production Facilities". Presented at the ASAE Annual International Meeting, Chicago, IL. Paper #024055.
11. H. S. Kim-Yang, **R. D. von Bernuth**, and S. Davies. 2002. "Ozonation Effect on Odorous Compounds in Livestock Building Air." Presented at the ASAE Annual International Meeting, Chicago, IL. Paper #024056.
12. MD. N. Islam and **R. D. von Bernuth**. 2002. Lowering of Water Table and Groundwater Arsenic Contamination Problem in Bangladesh. Presented at the ASAE Annual International Meeting, Chicago, IL. Paper #022214.
13. Kim-Yang, H.S., S. Davies, **R. D. von Bernuth**, and E. A. Cline. 2001. "A Comparison of Sampling Methods for the Characterization of Odorous Compounds in Livestock Facilities using Gas Chromatography-Mass Spectrometry." Presented at the ASAE Annual International Meeting, Sacramento, CA. Paper #01-4037.
14. **von Bernuth, R. D.**, H. Nix, and K. Vallieu. 1999. "Experiences with a Biofilter on a Slatted Floor Hog Barn." Presented at the ASAE Annual International Meeting, Toronto, ON. Paper #99-4158.
15. Fogiel, A. C., **R. D. von Bernuth**, F. Michel, and T. Loudon. 1999. "Experimental Verification of the Natural Convection Transfer of Air through a Dairy Manure Compost Mixture." Presented at the ASAE Annual International Meeting, Toronto, ON. Paper #99-4053.

16. **von Bernuth, R. D.** 1999. "Manure Management System Plans in the Context of Michigan Right to Farm Generally Accepted Agriculture and Management Practices." Presented at the ASAE Annual International Meeting, Toronto, ON. Paper #99-4093.
17. **von Bernuth, R. D.** 1997. "EcoSocial Issues in the Livestock Industry ", Minnesota Institute for Sustainable Agriculture. 10 pp.
18. **von Bernuth, R. D.** 1996. "Biosystems Engineers". *Resource Magazine*. September 1996. Vol.3, No.9, p 21. American Society of Agricultural Engineers. St. Joseph, MI.
19. Alocilja, E.C., **R. D. von Bernuth**, and D.K. Beede. 1995. "A Systems Engineering Framework to Minimize Phosphorus Pollution from Crop-Dairy Operation" Presented at the ASAE Summer Meeting, Chicago, IL. Paper #95-4589.
20. Shayya, W.H., **R. D. von Bernuth**, J.T. Ritchie, and H.L. Person. 1993. "A Simulation Model for Land Application of Animal Manure". Presented at the ASAE Summer Meeting in Spokane, WA. Paper #93-2012.
21. **von Bernuth, R. D.** and Ido Seginer. 1990. The Effect of Wind on Sprinkler Distribution Patterns. BARD Final Report.
22. Logan, J. and **R. D. von Bernuth**. 1990. "Tennessee Crop Water Requirements in a Greenhouse World". Third Tennessee Water Resources Symposium.
23. M. Barnett, ..., **R. D. von Bernuth**, and W. Miller. 1990. "A Study of the Treatment and Reuse of Cooling Water Blowdown at GM's New Saturn Plant". Third Tennessee Water Resources Symposium.
24. Tschantz, B. R., ..., **R. D. von Bernuth**, ..., and G. Lessman. 1990. Re-use of Cooling Tower Blowdown Wastewater for Crop Irrigation. Final report to The Saturn Corporation. June 1990. 80 pp.
25. **von Bernuth, R. D.** and D. Baird. 1989. Undertree Frost Protection. Presented at the 1989 Winter Meeting, New Orleans, LA., Dec. 1989. Paper #89-2590.
26. **von Bernuth, R. D.** 1988. Pressure Regulator Testing Standards. Presented at the Irrigation Association Annual Technical Conference, Las Vegas, NV, Nov. 1988.
27. **von Bernuth, R. D.** 1988. Evapotranspiration Measurement and Estimation in Tennessee. Project Completion Report, USGS, Tennessee Water Resources Research Center. August 1988.
28. **von Bernuth, R. D.** 1988. Software for Sprinkler System Design in Windy Conditions. The International Conference on Agricultural Engineering, Paris, France. March 1988.

29. **von Bernuth, R. D.** 1987. Importance of Pressure Regulator Characteristics in System Design. Presented at the 1987 ASAE Winter Meeting, Chicago, IL., Dec. 1987. Paper #87-2590.
30. **von Bernuth, R. D.** 1987. Linear and Logarithmic Data Plotting. Presented at the 1987 ASAE Winter Meeting, Chicago, IL., Dec. 1987. Paper #87-3530.
31. Freeland, R.S., A. R. Womac, and **R. D. von Bernuth.** 1987. Fiber optic networking of intelligent meteorological sensors. Presented at the ASAE Winter Meeting, Chicago, IL., Dec. 1987. Paper #87-3503.
32. **von Bernuth, R. D.** 1987. Measuring Particle Sizes with a Laser Spectrometer. Tennessee Farm and Home Science. No. 144, pp. 7-9.
33. **von Bernuth, R. D.** 1986. Computer Modeling in Water Management. University of Tennessee Agricultural Experiment Station Research Report 86-14, Oct. 1986.
34. **von Bernuth, R. D.**, C. H. Shelton, and R. B. Clapp. 1986. Potential Soil Erosion on Solid Waste Storage Sites at Oak Ridge National Laboratory. ORNL Project Completion Report, April 1986.
35. **von Bernuth, R. D.** 1985. "Decision Criteria for Pressure Regulation on Center Pivots." Presented at 1985 ASAE Summer Meeting, East Lansing, MI., June 1985. Paper #85-2064.
36. Vories, E. D. and **R. D. von Bernuth.** 1985. "Simulation of Wind Effects on Sprinkler Uniformity." Presented at 1985 ASAE Summer Meeting, East Lansing, MI., June 1985. Paper #85-2063.
37. Shelton, C. H., D. H. Tyler and **R. D. von Bernuth.** 1984. Prevention of Gully Formation and Associated Water Degradation in West Tennessee. Tennessee Water Resources Research Center Research Report No. 102. 39 pp.
38. Shelton, C. H., **R. D. von Bernuth,** and S. P. Rajbhandari. 1984. "A Non-intermittent Rainfall Simulator for Gully Erosion Studies." Presented at the 1984 ASAE Summer Meeting, Knoxville, TN, June 1984. Paper #84-2049.
39. **von Bernuth, R. D.** and J. R. Gilley. 1983. "Evaluation of Center Pivot Application Packages Considering Droplet Induced Infiltration Reduction." Presented at 1983 ASAE Winter Meeting, Chicago, ILL., Dec. 1983. Paper #83-2516.
40. **von Bernuth, R. D.** 1983. "How to Evaluate Drip Irrigation Systems." Lake Company, Bakersfield, CA.

41. **von Bernuth, R. D.** 1983. "Wheelmove Sprinkler Irrigation. "Lake Company, Bakersfield, CA.
42. **von Bernuth, R. D.** 1983. "Drip Irrigation. "Lake Company, Bakersfield, CA.
43. **von Bernuth, R. D.** 1983. "Mini-Micro Sprinkler Irrigation. "Lake Company, Bakersfield, CA.
44. **von Bernuth, R. D.**, D. L. Martin, J. R. Gilley, and D. G. Watts. "Irrigation System Capacities for Corn Production in Nebraska." Presented at 1983 ASAE Summer Meeting, Bozeman, MT., June, 1983. Paper #83-2005.
45. **von Bernuth, R. D.**, D. L. Martin, J. R. Gilley, and D. G. Watts. 1982. Optimizing Irrigation System Capacities. Nebraska Water Resources Center Report.
46. **von Bernuth, R. D.** 1982. "Uniformity Design Criteria Under Limited Water." Presented at the 1982 ASAE Summer Meeting, Madison, Wisconsin, June, 1982. Paper #82-2042.
47. **von Bernuth R. D.** 1982. "Soil Moisture State Probabilities by Markov Chain Analysis." Pres. at the 1982 ASAE Summer Meeting, Madison, Wisconsin, June, 1982. Paper #82-2083.
48. Solomon, K. H. and **R. D. von Bernuth.** 1980. "Annual Energy Savings Calculator." Rain Bird Western Sales Corporation, Glendora, California, September 1980.
49. **von Bernuth, R. D.** 1980. "Pivot Pak, Rain Bird Irrigation Systems." Rain Bird Sprinkler Mfg. Corp., Glendora, California, July 1980.
50. **von Bernuth, R. D.**, L. W. Jochens and K. H. Solomon. 1980. "Selection of a Water Distribution Package for Center Pivots." Presented at the 1980 ASAE Summer Meeting, San Antonio, Texas, June 16-18, 1980. Paper #80-2065.
51. **von Bernuth, R. D.** 1980. "Impact Sprinklers at Low Pressures." Presented at California Irrigation Institute, January 30, 1980.
52. **von Bernuth, R. D.** 1977. "Economics of Center Pivot End Guns." Presented at the 1977 ASAE Summer Meeting, Raleigh, North Carolina, June 1977. Paper #77-2008.
53. **von Bernuth, R. D.** 1977. "Economics of Agricultural Irrigation Systems." Presented at the Irrigation Association Short Course on Agricultural Irrigation, Mexico City, MX, Sept. 19, 1977.
54. **von Bernuth, R. D.** 1977. "Is the End Gun A Good Investment? "California Rancher, September, 1977, pp. W 6-7.

55. **von Bernuth, R. D.** 1977. "Economics of Sprinkler Irrigation." Presented at the Sprinkler Irrigation Association Basic Agricultural Short Course, Bakersfield, California, January 6, 1977.
56. **von Bernuth, R. D.** 1976. "End Guns for Center Pivots." Technical Bulletin, Rain Bird Sprinkler Mfg. Corp, Glendora, California, April, 1976.
57. **von Bernuth, R. D.** 1976. "The End Gun: How Good An Investment?" Nebraska Farmer, April 2, 1976.
58. **von Bernuth, R. D.** 1971. "Reasonable Pumping Lifts for Idaho." Water Information Bulletin #21, Idaho Department of Water Administration, February 1971. (Contr. Auth.).
59. **von Bernuth, R. D.** 1968. "The Rio Grande Compact." Presented to the 1968 Regional Meeting of the ASAE, Las Cruces, New Mexico. March, 1968.

INVITED TALKS/PRESENTATIONS:

I estimate that I have given 200 invited talks or presentations over the past 20 years to a variety of groups. Technical topics have varied from irrigation of snap beans to pumping water for aquaculture or nutrient management on farms. Often I give talks on environmental issues or on higher education in general, and I have been the featured speaker at numerous retirement ceremonies.

COMMITTEES:

NATIONAL:

American Society of Civil Engineers		
Design, Operation, and Maintenance of Irrig. Systems		1989-1997
American Society of Agricultural & Biological Engineers		1974-Pres
Irrigation Group (SW-24)	Chair	1992-1994
Sprinkler Irrigation Committee (SW-241)	Chair	1987-1990
Irrigation Association		1976-Pres
Awards Committee	1987-94; 2001-05	Chair 1988, 1993
Technical Conference Committee		Co-Chair 1992, 1993
Education Foundation		Treasurer 2003-Pres

REGIONAL:

North Central Region, ASABE Department Heads (NCA-16)		
	Chair	1993-1994

MICHIGAN:

Michigan Agricultural Electric Council	Chair	1994-1995
Michigan Ag Environmental Assurance Program	Chair	1999-2001

MICHIGAN STATE UNIVERSITY:

Productivity and Academic Program Assessment Committee		1992-1993
Mechanical Engineering Chairperson Search Committee		1992
Office of Academic and Student Affairs Review Committee		1992-1993
Teaching Improvement Committee (CANR)	Chair	1992-1993
Multi-Unit Task Force on Animal Waste Mgmt	Chair	1994-2004
Agricultural Technology Program Review Committee		1995-1996
Resource Development Chairperson Search Comm.	Chair	1996
Military Educational Advisory Committee		1996-2000
College of Engineering Curriculum Committee		1998-2001
Department Advisory Committee		1999-2001
All University Awards Committee		1999-2002, 2004
School of Packaging Director Search Committee:	Chair	2003-2004
National Food Safety and Toxicology Center Review:	Chair	2005

GRANT FUND ADMINISTRATION:

Year	Title	Amount
1983	Tennessee Valley Authority	22,000
1984	Tennessee Water Resources Research Center	17,000
1985	National Institute of Health (sub to Oak Ridge National Labs)	35,000
1986	Oak Ridge National Laboratories	5,000
1986	Binational Agricultural Research & Development Fund	160,000
1987	Tennessee Water Resources Research Center	20,000
1987	Fulbright-Hayes Group Travel to Brazil (Project Director)	49,000
1988	USDA National Needs Graduate Fellowships (Project Director)	96,000
1989	Tennessee Water Resources Research Center	20,000
1989	Saturn Corporation Waste Water Project	99,930

1989	Agricultural Engineering Curriculum Initiative	115,375
1991	Manure Management Strategies for Michigan) (USDA)	38,000
1992	Manure Management Strategies for Michigan (USDA)	116,000
1993	Manure Management Strategies for Michigan (USDA)	126,000
1994	Michigan Manure Management Project	400,000
1995	Computer Aided Design Laboratory	238,000
1995	MSU MULTI Project (Provost Office Development Grant)	6,000
1998	Michigan Corn Marketing Board (Ozonation of Swine Waste)	25,000
1998	Michigan Soybean Promotion Board (Efficacy of a Biofilter)	17,000
1998	Manure Management Plans for Michigan (MDEQ & NRCS)	20,000
1999	Michigan Energy Conservation (US DOE)	50,000
1999-2001	Michigan Ag Environmental Assurance Program (MDEQ, MDA, Soybean and Corn Boards, Animal Initiative)	262,792
1999	Michigan Soybean Promotion Board (Efficacy of a Biofilter)	12,000
2000	National Pork Producers (air treatment and dust)	25,000
2000	Fund for Rural America (with 13 other universities)	234,000
2000	USDA-IFAFS (with 6 other universities)	150,000
2001	National Pork Board	25,000
2001	Michigan Animal Industries Initiative	30,000
2001	Michigan Corn Marketing Program (MAEAP)	35,000
2001	Michigan Agricultural Experiment Station	32,000
2002	USEPA-Comparison of Swine Manure Collection Techniques	53,852
2002	Purdue Univ (sub USDA)-National Curriculum Initiative	12,963
2002	USDA-Comparison of Swine Manure Collection Techniques	15,432
2003	National Pork Board–Comparative Analysis of Odor Evaluation	59,802
2003	Centre de developpement du Porc du Quebec, Inc.–Liquid/Solid Isolation System	18,267
2004	National Pork Board (Boric Acid and Hydrogen Sulfide, Co-PI)	32,722
2005	National Pork Board (Boric Acid and Hydrogen Sulfide, Co-PI)	40,000
	TOTAL	2,714,135

INTERNATIONAL ACTIVITIES:

- 1982 Burma and Thailand. Consultant to US State Department on irrigation and drainage for tropical fruit production.
- 1985 Belgium. Lecturer, Post Graduate Center for Irrigation. Taught 3 qtr. hr. course in Irrigation System Analysis. Catholic University of Leuven, Belgium
- 1986 Brazil. Faculty exchange, Federal University of Ceara, Fortaleza, Ceara, Brazil.
- 1986 Israel. Binational Agricultural Research and Development (BARD) Grant. Co-investigator: Ido Seginer, Technion, Haifa, Israel. (3 yr. project)
- 1987 Brazil. Project Director, Fulbright-Hays group travel to Brazil.
- 1988 France. Ag Eng 88 (Intl. Ag Engineering Tech. Conference)
- 1988 England. Presenter, International Seminar Series, Silsoe College
- 1993 Israel. Keynote speaker at Sixth International Conference on Irrigation, Tel Aviv
- 1997 Bangladesh. Keynote speaker at Int'l Agricultural Engineering Conf., Dhaka
- 1997 Australia. Consultant to Rellney Group, South Australia.
- 1998 Portugal. Director of Visitors Bureau for NATO Exercise, Strong Resolve
- 1999 Israel. Consulting activity related to an Israeli patent.
- 2000 Japan. Collaborative research on odor and dust in swine facilities.
- 2001 Thailand, Nepal, & Singapore. Overseas study program initiation.
- 2002 Thailand, Singapore. Michigan State University Study Abroad Program.
- 2004 Russia. Michigan State University Study Abroad Program
- 2003-06 Canada. Collaborative research with Laval University and IRDA (Quebec)

HONORS AND AWARDS:

Boettcher Foundation Scholar	1968
Student Body President, Colorado State University	1967-1968
Colorado Honor Engineer	1968
University of Idaho Research Fellow	1969

United States Navy, Distinguished Naval Graduate	1970
56 individual decorations inc. two Distinguished Flying Crosses	1969-1998
U. S. Patent #4,168,033	1979
Outstanding Teacher, University of Tennessee Institute of Agriculture	1985
Outstanding Faculty Award, Agricultural Engineering Dept., Univ. of TN	1990
Who's Who in America	1993-
American Men and Women in Science	1994
Irrigation Association "Person of the Year"	1994
Who's Who in Engineering and Technology, Who's Who in the World	1995
Endowed Chair in Agricultural Systems, U of Minnesota	1997
Fellow, American Society of Agricultural Engineers	1997
Distinguished Faculty Award, College of Ag & Natural Resources, MSU	1999
Withrow Teaching Award, MSU College of Engineering	2004
Associated Schools of Construction, Region 3 Educator of the Year	2005

COMMUNITY SERVICE

President, Concord Hill Homeowners Association	1987
Coach: Soccer and Basketball	1985-1993

United Methodist Church (Knoxville, TN and Lansing, MI)	1980-
various committees including chair, building fund committee	
Board Member, Okemos High School Committees	1991-1995
Band Boosters, Athletic Boosters	
President, Farragut Intermediate School PTA	1985
President, Lansing Area Farmers Club	2000-02

EXTERNAL REVIEW ACTIVITIES

Plant and Soil Science Department, University of Tennessee	1988
Agricultural Engineering Department, Louisiana State Univ.	1992
Agricultural Engineering Department, Univ. of Wisconsin	1993
Agricultural and Biosystems Department, Univ. of Idaho	2000
Construction Management Program, Univ. of Ark, Little Rock (ACCE)	2003
Construction Management, Central Missouri State University (ACCE)	2004

TECHNICAL REVIEWS

American Society of Agricultural Engineers: annually review 4-6 articles
 American Society of Civil Engineers: annually review 1 or 2 articles
 USDA, SBIR: annually review 1 or 2 proposals
 Great Lakes Energy Consortium: annually review 3 proposals
 Six State Consortium: annually review 20-25 proposals
 Michigan Department of Agriculture: occasional reviews
 MSU Vice-President for Research: annually review 1 or 2 proposals
 IFAFS 2001, Animal Manure Management review panel
 National Pork Board Technical Review panel, 2005

CONSULTING ACTIVITIES

Vice-President, Von-Sol Consulting, Claremont, CA & Lincoln, NE	1982-1984
Principal, von Bernuth Agricultural Consulting	1984-present

SELECTED CLIENTS:

<u>Corporations</u>	<u>Legal Concerns</u>
Rain Bird Sprinkler Corporation	Garvey, Schubert & Barer, P.C.
Nelson Irrigation Corporation	Nixon & Vanderhye, P.C.
Senninger Irrigation Corporation	Reinhold Cohn & Partners (Israel)
Agri-Fim Irrigation Corporation	U.S. Department of Justice
T-L Irrigation Company	
Neta-Fim Irrigation, Inc.	

TEACHING SUMMARY

<u>University of Nebraska</u>	<u>1980-1982</u>		
AE 480/880	Irrigation Systems	(4)	S '81-'82

<u>University of Tennessee</u>		<u>1982-1990</u>	
AE 3610	Soil and Water Conservation Engineering	(3)	W '83-'87
AE 340	Soil and Water Conservation Engineering	(2)	S '88-'90
AE 4610	Irrigation and Drainage System Design	(3)	S '83-'87
AE 440	Irrigation and Drainage System Design	(2)	S '88-'90
AE 520	Instrumentation and Control	(3)	W '87
AE 530	Computer Modeling	(3)	S '88-'90

<u>Michigan State University</u>		<u>1990-present</u>	
AE 152	Introduction to Agricultural Engineering	(1)	W '91,'92,'94
AE 410	Ethics and Professionalism	(1)	S '91,'92
AE 486	Fundamentals of Design Methodology	(3)	F '92,'93,'94
AE 820	Research Methods in Agricultural Engrng	(1)	S '93, F '94
BCM 419	Senior Seminar	(1)	S '91
BCM 820	Graduate Seminar	(1)	F '93
BE 486	Biosystems Engineering Design	(3)	F '95, '96
EGR 291	Success in Engineering	(1)	F '97
BE 351	Environmental Thermodynamics	(3)	F '98-03
NSC 192	Environmental Issues Seminar	(1)	S '98
FW 443	Restoration Ecology	(3)	S '99- '05
ANS 490	Comp. Nutrient Management Planning	(3)	S '00,'01
BE 882	Advanced Irrigation Systems	(3)	S '00
BCM 222	Statics	(3)	S '01
ANS 418	Comp. Nutrient Management Planning	(3)	F'01, F'02, F'03
BCM 101	Introduction to Construction Management	(2)	F '04-'06, Su-'06

GRADUATE COMMITTEES CHAIRED [13]

1. Joel G. Hall. A Theoretical Model for Mass and Energy Considerations in Microclimate Modification by Sprinkling. M.S. 1985
2. Earl D. Vories. A Laboratory Study of the Erodibilities of Four Agriculturally Productive Soils. Ph.D. 1987
3. Joel B. Lown. A Spatial Modeling Tool for Agricultural Systems. M.S. 1988
4. Elizabeth J. Deming Use of Animal Model in the Assessment of the Risk of Human Viral Disease Transmission Associated with Surface Application of Treated Wastewater onto Lawns. Ph.D. 1991
5. Estevão de Paula. Fabrication of a Mechanical Device for in situ Measurement of Density of a Wood Particle Mat During Pressing. Ph.D. 1992
6. Neba Ambe. Characterizing Irrigation Environmental Efficiency Based on Distribution Uniformity and Irrigation Management. Ph.D. 1995
7. Andy Fogiel. Characterizing Respiration in Composting. M.S. 1998
8. HyeSoon Kim-Yang. Chromatography Characterization of Manure Odors Ph.D. 2002
9. Ann Morrison. A Comprehensive Nutrient Mgmt Plan for MSU Farms. M.S. 2003
10. M. D. Nazrul Islam. Groundwater Extraction and its Impact on Arsenic Contamination in Bangladesh. Ph.D. 2003
11. Mike Gangwer. Modeling the Field Water Balance on Irrigated Crop Fields using the Root Zone Water Quality Model Ph.D. 2005

12. Arthur Theusch. Construction Issues in Post-War Reconstruction Zones. M.S. 2006
 13. Jeff Hill. Pork Meat Quality Related to Manure Management Ph.D. 2007exp

GRADUATE COMMITTEE SERVICE [23] Degrees completed

- | | | |
|--------------------------|-------|---|
| 1. Shyam S. Rajbhandari | M.S. | 1983 Agricultural Engineering |
| 2. Fritz A. Mucke | M.S. | 1987 Agricultural Engineering |
| 3. Walid Shayya | Ph.D. | 1991 Agricultural Engineering |
| 4. Rebecca M. Pullen | Ph.D. | 1992 Environmental Engineering |
| 5. Ronald Stoup | M.S. | 1993 Building Construction Management |
| 6. Philip Gerrish | M.S. | 1993 Agricultural Engineering |
| 7. Marcus Metoyer | M.S. | 1994 Building Construction Management |
| 8. Mario Fusco | M.S. | 1995 Agricultural Engineering |
| 9. Geoffrey Salthouse | M.S. | 1997 Agricultural Engineering |
| 10. Takako Inagaki | M.S. | 1998 Agricultural Technology Management |
| 11. James Schäper | Ph.D. | 1998 Agricultural Engineering |
| 12. Harry Chawney | M.S. | 2000 Building Construction Management |
| 13. Aravind Chabbi | M.S. | 2000 Building Construction Management |
| 14. Emily Otto | M.S. | 2000 Animal Science |
| 15. Mohamed Elwadie | Ph.D. | 2002 Crop and Soil Science |
| 16. Mike Klunzinger | M.S. | 2002 Animal Science |
| 17. Victor Dacarrat | M.S. | 2003 Construction Management |
| 18. Colin Nugent | M.S. | 2004 Geography |
| 19. Abhi Sabharwal | M.S. | 2004 Construction Management |
| 20. Jerry May | M.S. | 2005 Animal Science |
| 21. Mallikarjun Chaganti | M.S. | 2005 Construction Management |
| 22. Bhavin Patel | M.S. | 2006 Construction Management |
| 23. Pamela Dorton | M.S. | 2006 Interior Design |

[3] Degrees in progress

- | | | |
|----------------------|-------|-------------------------------|
| 1. Larry Sheridan | M.S. | Animal Science |
| 2. Jayne Kalbfleisch | Ph.D. | Animal Science |
| 3. Renee McCoy | M.S. | ANR Education & Communication |