

Uta Krogmann

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Dept. of Environmental Sciences
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335 Valentine St.
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Education:

- 1993 Ph.D. (Dr.-Ing.) in Civil Engineering
Dissertation title: *Analysis of biowastes generated by separate collection and composting various mixtures of biowaste fractions.*
Department of Environmental Technologies,
Technical University of Hamburg-Harburg, Germany
- 1977-1985 Masters in Civil Engineering (MS and BS degrees combined)
Licensed Civil Engineer (Diplomingenieurin)
Thesis title: *Treatment of liquid animal wastes to reduce nitrogen-related odors and pollution.*
Rhenish Westphalian Technical University, Aachen, Germany

Current Position:

Professor and Extension Specialist in Solid Waste Management

Professor, Rutgers University, School of Biological and Environmental Sciences (SEBS)
(from 7/17)

Associate Professor, Rutgers University, SEBS (7/01-6/16)

Assistant Professor, Rutgers University, SEBS (2/95-6/01)

- Developing applied research programs in the area of Solid Waste Management and Sustainability Engineering in New Jersey.

Academic Appointments

- Undergraduate Program Director, Bioenvironmental Engineering, Rutgers University, School of Environmental and Biological Sciences (7/07-12/07 and 1/14-present)
- Coordinator for the Sustainability Track, MS Business & Science, Rutgers University, Graduate School New Brunswick (10/09-present)
- Graduate Program Director, Bioresource Engineering, Rutgers University, Cook College (7/01-6/02)

Funded grant proposals

- Co-Principal Investigator, New Jersey Department of Environmental Protection, “Treatment of Wood Mulch Runoff/Leachate” with PI Dr. P. Strom and Co-PIs Drs. D. Giménez and R. Miskewitz, 2016-2018, \$299,097.
- Co-Principal Investigator, United Engineering Foundation, “Engineering Strategies for a Sustainable Food Supply Chain” with PI Dr. D. Schuster and Co-PIs Drs. C. Peters, A. Park and C. Babbitt, 2014-2015, \$62,000.
- Principal Investigator, New Jersey Environmental Protection Agency, “An Investigation of Quantity and Quality of Runoff from Stockpiles of Recycled Waste Materials ”, with Co-PIs Drs. D. Giménez, P. Strom and R. Miskewitz, 2009-2013, \$581,483.
- Principal Investigator, National Science Foundation, "Self-Sufficient Urban Buildings (REU)", with Co-PI Dr. C. Andrews, 2009-2012, \$6,000.
- Principal Investigator, Rutgers Academic Excellence Funds, “Energy Consumption Monitoring Equipment” with Co-PIs Drs. C. Andrews, M. Mueller and F. Felder, 2009-2010, \$49,705.
- Co-Principal Investigator, Office of the Associate VP for Promotion of Women in Science, Engineering and Mathematics, Rutgers University, “Assessing the Status of Women in Engineering at Rutgers University” with PI Dr. M. Baykal-Gursoy and Co-PIs Drs. J. Bennett, H. Buettner, L. Klein, A. Pelegri, L. Rodenburg and P. Roos, 2008-2009, \$7,950.
- Principal Investigator, National Science Foundation, "Self-Sufficient Urban Buildings", with Co-PI C. Andrews, 2007-2013, \$1,813,114.
- Co-Principal Investigator, New Jersey Meadowlands Commission, “The Costs and Benefits of Green Buildings in the New Jersey Meadowlands” with PI Dr. C. Andrews and Co-PI J. Senick, 2007-2008, \$114,239.
- Principal Investigator, Monmouth County, various New Jersey companies and Rutgers EcoComplex, “Expanding Markets for and Preventing Stormwater Pollution from Mixed Glass Cullet in New Jersey”, with Co-PI Dr. P. Strom, 2007, \$47,006.
- Co-Principal Investigator, Rutgers EcoComplex, “A Study to Improve the Operation of the Burlington County Bioreactor Landfill and to Investigate Landfill Biochemical Processes in this Bioreactor”, with PI B. Ravit and Co-PI D. Fennell, 2006-2008. \$100,000.
- Principal Investigator, Monmouth County, various New Jersey companies and Rutgers EcoComplex, “Expanding Markets for and Preventing Stormwater Pollution from Mixed Glass Cullet in New Jersey”, with Co-PI Dr. P. Strom, 2005-2006, \$65,160.
- Principal Investigator, National Science Foundation, "Towards Self-Sustaining High-Rise Buildings: Framework for an Analysis of Materials, Energy, Economy, and Social Issues", with Co-PI Dr. C. Andrews, 2004-2007, \$114,964.

- Co-Principal Investigator, New Jersey Water Resources Research Institute, "Fate of Bromated Flame Retardants in New Jersey Wastewater Treatment Facilities", with PI Dr. D. Fennell and Co-PI Dr. L. Totten, 2004-2005, \$30,000.
- Principal Investigator, NJ Agricultural Experiment Undergraduate Research Grant, "Motivating Changes in Manure Handling Practices of Small-Scale Horse Farmers: A Multi-Disciplinary Approach", with Co-PIs Drs. C. Chess and M. Westendorf, 2001-2003, \$1,500.
- Principal Investigator, NJ Agricultural Experiment Station Rapid Response Grant, "Beneficial Uses of Excess Cranberries in New Jersey", with Co-PI Dr. M. S. Kumudini and Dr. B. Rogers, 2001-2003, \$9,900.
- Co-Principal Investigator, NJ Agricultural Experiment Station Equine Initiative, "Manure Composting Practices for Horse Farms", with PI Dr. M. Westendorf, 2001-2002, \$22,500.
- Principal Investigator, NJ Agricultural Experiment Station Equine Initiative, "Manure Composting Practices for Horse Farms", with Co-PI Dr. M. Westendorf, 2000-2001, \$11,000.
- Principal Investigator, NJ Agricultural Experiment Station SARE funds, "Organic Wastes: Effect on Soil Quality", with Co-PI Dr. D. Giménez, 2000-2001, \$32,000.
- Principal Investigator, NJ Department of Environmental Protection, "Characterization of Materials "Mined" from the Burlington County Landfill", with Co-PI Dr. P. Strom, 1999-2001, \$110,978.
- Principal Investigator, NJ Agricultural Experiment Station SARE funds, "Organic Wastes: Effect on Soil Quality", with Co-PI Dr. D. Giménez, 1999-2000, \$27,500.
- Co-Principal Investigator, NJ Agricultural Experiment Station Equine Initiative, "Manure Composting Practices for Horse Farms", with PI Dr. M. Westendorf, 1999-2000, \$15,000.
- Principal Investigator, US Department of Agriculture and RCE Strategic Planning Grant, "Outreach Strategies for Land Application of Biosolids: Learning from Vegetable Growers", 1999-2000, \$10,267.
- Principal Investigator, NJ Department of Environmental Protection, "Best Management Practices for Horse Manure on Small Farms", with Co-PI Dr. M. Westendorf and Co-Investigator Dr. T. Shelton, 1999-2003, \$110,000.
- Co-Principal Investigator, NJ Agricultural Experiment Station Equine Initiative, "Manure Composting Practices for Horse Farms", with PI Dr. M. Westendorf, 1998-1999, \$41,200.
- Principal Investigator, NJ Department of Environmental Protection, "Best Management Practices for the Use of Non-Traditional Organic Wastes in Agriculture", 1998-2001, \$79,000.
- Principal Investigator, Mid-Atlantic Consortium/W.K. Kellogg Foundation, "Waste Minimization/Pollution Prevention in the Mid-Atlantic Food System", with Co-PI Dr. P.F. Strom, 1997-2000, \$4,700.

- Principal Investigator, US Department of Agriculture, “Evaluation of an Outreach Project Regarding the Beneficial Use of Biosolids”, 1997-1998, \$5,430.
- Principal Investigator, RCE Strategic Planning Funds, “Development of Different Compost Quality Standards for Different End Uses”, 1997-1998, \$2,000.
- Principal Investigator, Northeast Regional Center for Rural Development, “Outreach Regarding the Beneficial Use of Biosolids (Liability)”, 1996-1997, \$500.
- Principal Investigator, NJ Agricultural Experiment Station Project (Hatch), “Solid Waste Research”, 1996-2004, about \$8,000.
- Principal Investigator, NJ Agricultural Experiment Station, “Qualitative and Quantitative Analysis of Best Uses of Biodegradable Wastes in New Jersey”, 1996-1998, \$10,200.
- Principal Investigator, New York/New Jersey Information Sharing Group, “Outreach Regarding the Beneficial Use of Biosolids”, 1995-1998, \$67,460.
- Co-Principal Investigator, NJ Department of Environmental Protection, “The Fate and Transport of Components of Sewage Sludge Applied to Agricultural Land: A Literature Review and Critical Analysis”, with PI Dr. Z. Helsel, 1995-1996, \$15,000.

Teaching

- Teach solid waste management and sustainability engineering courses in Bioenvironmental Engineering and Environmental Sciences.
(See also Teaching Experience)

Prior Professional Experience:

Supervising Engineer, Technical University of Hamburg-Harburg, Department of Urban Environmental Technologies, Institute of Waste Management (10/91-1/95)

- Supervised interdisciplinary team of 3 chemical engineers, 3 civil engineers, 6 bioenvironmental engineers, 2 chemists, 6 technicians, 24 student research assistants and 2 secretaries. Annual budget about \$1,100,000. Research fields included:
 - New waste management concepts
 - Landfill design
 - Composting technologies
 - Anaerobic dry fermentation to digest biowaste and industrial wastes
 - Gas migration through landfill liners
 - Bioremediation of contaminated soils
 - Biofilters for odor reduction

Funded grant proposals

- Responsible for coordinating the application for and the implementation of an interdisciplinary, interinstitutional research program to optimize the composting process for municipal biowastes. Duration: 1/91-3/94. Total funding: \$2,545,000.
- Participants: 2 companies and 7 universities throughout Germany.
- Co- Principal Investigator for an investigation of the influence of different municipal and industrial biowaste fractions on compost quality and minimization of odors and leachate, joint project with one of the biggest composting plant manufacturers in Germany, \$242,000 (Duration: 4/94-5/95).
- Co- Principal Investigator for an investigation of the degradation of nitrogen compounds during composting and after the application of compost, \$600,000 (Duration: 10/94-9/97).

Teaching

- The course sequence “Solid Waste Management and Bioremediation” for the Masters program in Civil Engineering and Environmental Technology. Taught semester long units “Solid waste management” and “Material recovery from wastes.” Other topics in this course sequence include
 - Landfill design
 - Soil remediation
 - Treatment of hazardous wastes
 - Groundwater hydrology
 - Soil chemistry
- Prepared and graded exams.

Research Scientist, Technical University of Hamburg-Harburg, Department of Urban Environmental Technologies, Institute of Waste Management (2/86-5/91)

Research project: Separate collection and composting of municipal biowastes. Examined seasonal changes in municipal biowaste composition and ways to optimize initial mixtures to ensure rapid composting, reduced odors and production of high-quality compost products; analyzed municipal waste sorting strategies and characterized component waste streams. Coordinated a composting project between the City of Hamburg, their waste hauler, the university, soil scientists, plant scientists and the staff at the composting site. This resulted in three major reports and a book. Supervised a staff of 4-6 people at the composting site concerning the compost operation. Responsible for preparing a successful multi-institutional joint project proposal for optimizing the composting process, minimizing odors from composting plants, and improving compost quality and uses in Germany. Funded 1/91. Total funding: \$2,545,000. Participants: 2 companies and 7 universities throughout Germany.

Consulting Engineer at Messrs. Trienekens in Viersen, Germany (8-11/85)

- Planned and ran a lab scale treatment plant for the pretreatment of landfill leachate using ammonia stripping and biological unit processes.

Consulting Engineer at the office of Harloff/Hensel, Aachen, Germany (5-7/85)

- Computer-aided city-and traffic-planning including mass transit, vehicular and bicycle traffic load patterns for various cities in Germany.

Research Assistant, Department of Wastewater Treatment, Rhenish Westphalian Technical University, Aachen, Germany (1/83-7/84)

- Designed a treatment plant for animal wastes for discharge to surface water including pH-based ammonia stripping techniques for odor control and reduction of nitrogen constituents.

Journal Articles (peer reviewed):

(* indicates corresponding author, ** indicates member of Dr. Krogmann's research team)

Articles Published

1. Jordán-Cuebas, F.J.**, **Krogmann, U.***, Andrews, C.J., Senick, J.S., Hewitt, E.L., Wener, R.E., Sorensen-Allaci, M., and Plotnik, D.: Understanding Apartment End-Use Water Consumption in Green Residential Multi-Story Buildings. 12 pp., *J. Water Res. Pl. (ASCE)*, in press.
2. Kannepalli, S., Strom, P.S.* , **Krogmann, U.**, Subroy, V., Giménez, D., and Miskewitz, R.J.: Characterization of Wood Mulch and Leachate/Runoff from Three Wood Recycling Facilities in New Jersey, USA. *J. Environ. Manage.*, 182, 2016, 421-428.
3. Patton, A.P., Calderon, L., Xiong, Y.** , Wang, Z., Senick, J.S., Sorensen-Allacci, M., Plotnik, D., Wener, R., Andrews, C.J., **Krogmann, U.**, and Mainelis, G.*: Airborne Particulate Matter in Two Multi-Family Green Buildings: Concentrations and Effect of Ventilation and Occupant Behavior. *Int. J. Environ. Res. Public Health*, 13(1), 2016, 144 (19 pp.).
4. Hewitt, E.L., Andrews, C.J.* , Senick, J.S., Wener, R.E., **Krogmann, U.**, and Sorensen-Allacci, M.: Distinguishing between Reasoned and Unplanned Behaviors Carried out by Occupants of a Green Building. *Build. Res. Inf.*, 44(2), 2016, 119-134.
5. Xiong, Y.** , **Krogmann, U.***, Mainelis, G., Rodenburg, L.A., and Andrews, C.J.: Indoor Air Quality in Green Buildings: A Case-Study in a Residential High-Rise Building in the Northeastern US. *J. Environ. Sci. Health A Tox. Hazard. Subst. Environ. Eng.*, 50(3), 2015, 225-242.
6. Subroy, V., Giménez, D.* , Quin, M., **Krogmann, U.**, Strom, P.F., and Miskewitz, R.J.: Hydraulic Properties of Coarsely and Finely Ground Woodchips. *J. Hydrol.*, 517, 2014, 201-212.
7. Mosteiro-Romero, M.** , **Krogmann, U.***, Wallbaum, H., Ostermeyer, Y., Senick, J.S., and Andrews, C.J.: Relative Importance of Electricity Sources and Construction Practices in Residential Buildings: A Swiss-US Comparison of Energy Related Life-Cycle Impacts. *Energy Build.*, 68, 2014, 620-631.

8. Tsai, C.-L.** and **Krogmann, U.***: Material Flows and Energy Analysis of Glass Containers Discarded in New Jersey, USA. *J. Indust. Ecol.*, 17(1), 2013, 129-142.
9. San Miguel, C., Giménez, D.*, **Krogmann, U.**, and Yoon, S.W.: Impact of Land Application of Cranberry Processing Residuals, Leaves and Biosolids Pellets on a Sandy Loam Soil. *Appl. Soil Ecol.*, 53, 2012, 31-38.
10. Andrews, C.J.*, Yi, D., **Krogmann, U.**, Senick, J., and Wener, R.: Designing Buildings for Real Occupants: An Agent-Based Approach. *IEEE T. Syst. Man Cy. A*, 41(6), 2011, 1077-1091.
11. Tsai, C.-L.***, **Krogmann, U.*** and Strom, P.F.: Aeration of Glass Cullet Stockpiles to Reduce Leachate Contamination. *J. Env. Eng. (ASCE)*, 136(8), 2010, 854-859.
12. Andrews, C.J*. and **Krogmann, U.**: Explaining the Adoption of Energy-Efficient Technologies in U.S. Commercial Buildings. *Energy Build.*, 41(3), 2009, 287-294.
13. Tsai, C.-L.***, **Krogmann, U.***, and Strom, P.F.: Characteristics of Leachate from Glass Cullet Stockpiles. *Waste Manage.*, 29(4), 2009, 1296-1305.
14. Andrews, C.J.* and **Krogmann, U.**: Technology Diffusion and Energy Intensity in US Commercial Buildings. *Energ. Policy*, 37(2), 2009, 541-553.
15. **Krogmann, U.***, Rogers, B.F.***, and Kumudini, S.: Effects of Mulching Established Highbush Blueberry Plants with Cranberry Fruits and Leaves on Yield, Nutrient Uptake, Soil Properties and Weed Suppression. *Comp. Sci. Util.*, 16(4), 2008, 220-227.
16. **Krogmann, U.***, Andrews, C.J., Kim, M., Kiss, G. and Miflin, C.: Mass Balance for the Solaire and the 2020 Tower: Implications for Closing the Water Loop in High-Rise Buildings. *JAWRA*, 2007, 43(6), 1414-1423.
17. Ramirez-Perez, J.C., Strom, P.F.*, and **Krogmann, U.**: Horse Manure and Cranberry Fruit Composting Kinetics and Measures of Stability. *Comp. Sci. Util.*, 15(3), 2007, 200-214.
18. Romano, P.V.***, **Krogmann, U.***, Westendorf, M., and Strom, P.F.: Reduction of Fecal Streptococci and Strongyle Eggs during Small-Scale Composting of Horse Manure Mixed with Wood Shavings. *Comp. Sci. Util.*, 14(2), 2006, 132-141.
19. Hull, R.M.***, **Krogmann, U.***, and Strom, P.F.: Composition and Characteristics of Excavated Materials from a New Jersey Landfill. *J. Env. Eng. (ASCE)*, 131(3), 2005, 478-490.
20. **Krogmann, U.*** and Gibson, V.: Integrating Development of Extension Materials and Formative Informal Evaluation: Land Application of Sewage Sludge as a Case Example. *J. of Extension*, 2003, 41(1), www.joe.org/joe/2003february/a1.shtml.
21. **Krogmann, U.*** and Chiang, H.-N.***: Selected Nutrients and Heavy Metals in Sewage Sludge from New Jersey POTWs. *JAWRA*, 38(3), 2002, 681-692.
22. Heckman, J.R.*, Morris, T.F., Sims, J.T., Sieczka, J.B, **Krogmann, U.**, and Nitzsche, P.J.: Presidedress Soil Nitrate Test for Fall Cabbage. *Hort. Sci.*, 37(1), 2002, 113-117.
23. **Krogmann, U.***, Heckman, J.R., and Boyles, L.S.***: Nitrogen Mineralization of Grass Clippings – A Case Study in Fall Cabbage Production. *Comp. Sci. Util.*, 9(3), 2001, 230-240.

24. **Krogmann, U.***, Gibson, V., and Chess, C.: Land Application of Sewage Sludge: Perceptions of New Jersey Vegetable Farmers. *Waste Manage. Res.*, 19(2), 2001, 115-125.
25. Rogers, B.F.***, **Krogmann, U.***, and Boyles, L.S.**: Nitrogen Mineralization of Non-Traditional Organic Wastes. 2001. *Soil Sci.*, 166(5), 2001, 353-363.
26. **Krogmann, U.*** and Woyczehowski, H.**: Selected Characteristics of Leachate, Condensate and Runoff Released during Composting of Biogenic Waste. *Waste Manage. Res.*, 18(3), 2000, 235-248.
27. **Krogmann, U.***, Boyles, L.***, Bamka, W.J., Chaiprapat, S.***, and Martel, C.J.: Biosolids and Sludge Management. *Water Environ. Res.* 71(5), 1999, 692-715.
28. Goldfarb, W.* , **Krogmann, U.**, and Hopkins, C.: Unsafe Sewage Sludge or Beneficial Biosolids?: Liability, Planning, and Management Issues regarding the Land Application of Sewage Treatment Residuals. *B. C. Env. Aff. L. Rev.* 26(4), 1999, 687-768.
29. **Krogmann, U.***: Effects of Season and Population Density on Source-Separated Waste Composts. *Waste Manage. Res.*, 17(2), 1999, 109-123.
30. **Krogmann, U.***, Qu, M.***, Boyles, L. S.***, and Martel, C.J.: Biosolids and Sludge Management. *Water Environ. Res.* 70(4), 1998, 557-580.
31. **Krogmann, U.***, Boyles, L. S.***, Martel, C.J., and McComas, K.A.: Biosolids and Sludge Management. *Water Environ. Res.* 69(4), 1997, 534-550.
32. **Krogmann, U.***: Neueste Erkenntnisse über die Grundlagen der Kompostierung (Latest research on the fundamental science of composting). *EntsorgungsPraxis*, 12(4), 1994, 13-21.
33. **Krogmann, U.***: Kompostierung als Abfallentsorgungsverfahren von Biomüll (Composting as a disposal system for biowaste). *Wasser und Boden*, 40(9), 1988, 492-496.

Articles Submitted or in Preparation

1. **Krogmann, U.*** and Sullivan, K.**: Life-Cycle Assessment of Centralized versus On-Site In-Building Wastewater Treatment. *J. Environ. Sci. Health A Tox. Hazard. Subst. Environ. Eng.*, in preparation.
2. Kannepalli, S., Strom, P.S.*, **Krogmann, U.**, Miskewitz, R.J., and Giménez, D.: Leachate Constituent Concentrations and Loads from Pilot-Scale Wood Mulch Stockpiles. *Waste Manage.*, in preparation.
3. Jordán-Cuebas, F.J.***, **Krogmann, U.***, and Andrews, C.J.: Relative Contribution of Laundry Practices to Water and Energy Consumption of Households with High-Efficiency Appliances. *Energy Build.*, in preparation.
4. Jordán-Cuebas, F.J.***, **Krogmann, U.***, and Andrews, C.J.: Water-Energy-Nexus in the Apartments of Two Green Multi-Story Buildings. *J. Indust. Ecol.*, in preparation.

5. Xiong, Y.**, **Krogmann, U.***, Mainelis, G., Rodenburg, L.A., and Andrews, C.J.: Occupants' Role in Indoor Air Quality and Comfort in Two High-Rise Residential Green Buildings. *Build. Environ.*, in preparation.

Service:

Associate Editor and Editorial Boards

Editorial Board, Waste Management, 2013-present.

Associate Editor, Waste Management, 2010-2013.

Editorial Advisory Board, Journal of Residuals Science & Technology, 2003-present.

Professional Society Positions

ASCE Sustainable Infrastructure Education committee, 2015-present.

AEESP Education Committee member, 2003-present.

AEESP Book Review Committee member, 2000-2005.

A&WMA, secretary and acting co-chair of the technical committee "Landfilling and Composting", 1999-2001.

WEF Literature Review Committee member, 1997-1999.

Regional Research Committee Positions

Co-chair of the USDA NECC 1010 committee "Use of Residuals in Agriculture in the Northeast". 2006-2007.

Co-chair of the USDA NE-1001 committee "Application of Sewage Sludge to Agricultural Soils in the Northeast. Long-Term Impact and Beneficial Uses", 2002-2006.

Member of the USDA NEC-100 committee "Application of Sewage Sludge to Agricultural Soils in the Northeast. Long-Term Impact and Beneficial Uses", 1998-2001.

Major University and School Committees

Rutgers University, SOE Assessment and Accreditation Committee, 2017-present.

Rutgers University, SOE Scholastic Standing Committee, 2016-present.

Rutgers University, SOE Student Affairs Committee, 2016-present.

Rutgers University, SEBS Assessment Committee, 2015-2017.

Rutgers University, SEBS Sustainability Education Committee, 2013-2014.

Rutgers University, SEBS Ad hoc Core Curriculum Committee, 2012.

Member of the Advisory Board and Management Team of the "Rutgers Center for Green Buildings Excellence", Bloustein School of Planning and Public Policy, Rutgers University, 2007-present.

Rutgers University, Graduate School's Physical Sciences Area Committee, 2007-2009.

Rutgers University, Rutgers Cooperative Extension Awards Committee, 2005-present.

Rutgers University, Cook College, Planning Committee, 2005-2006.

Rutgers University, Cook College, Committee of Review, 2004-2006.

Rutgers University, Cook College, Committee on Sludge Policy, 2004-present.

Member of the Equine Science Center of the New Jersey Agricultural Experiment Station, 2001-present.

Peer-review Responsibilities

Proposals

Reviewer of NSF SBIR, NSF IGERT, NSF Engineering Center, NSF Sustainability and NSF unsolicited proposals, international workshop proposals, 2001-2016.

Reviewer of Faculty Research Grants, Rutgers University, 2011.

Reviewer of United Arab Emirates NSF Engineering Center proposals, 2008.

Journal Reviews

Advances in Environmental Research, Chemosphere, Compost Science & Utilization, Critical Reviews in Environmental Science & Technology, Environmental Engineering Science, Environmental Science & Technology, Environmental Research Letters, International Journal of Life-Cycle Assessment, Journal of the American Water Resources Association, Journal of Environmental Engineering (ASCE), Journal of Environmental Management, Journal of Environmental Quality, Journal of Planning Education and Research, Journal of Residuals Science & Technology, Journal of Solid Waste Technology and Management, The Science of the Total Environment, Soil Science, Waste Management, Waste Management & Research, Water Research.

Conference Organization and Advisory Boards

Member of the International Advisory Board and reviewer of abstracts for the international conferences “Sardinia Symposium 2011”, “Sardinia Symposium 2013” and “Sardinia Symposium 2017” in Santa Margherita di Pula, Italy.

Member of the planning committee, Food Waste-to-Low Carbon Energy conference, Rutgers University, April 27-28, 2016.

Co-Organizer of the conference: “Engineering Strategies for a Sustainable Food Supply Chain”, funded by the United Engineering Foundation, Princeton University, March 16-17, 2015.

Organizer of “NSF Self-Sustaining High-Rise Building Workshop” on January 13-14, 2005, March 28, 2008, January 15, 2010 and August 29, 2013 at the Bloustein School of Planning and Public Policy, Rutgers University, New Brunswick, NJ.

Member of advisory committee of the international conference “Towards the City Surface of Tomorrow” in June 2006 in Vienna, Austria.

Organizer of conference “Information Exchange about Bioreactor Landfills” for New Jersey solid waste district officials on December 6, 2004, at the Rutgers University Ecocomplex, Florence, NJ.

A&WMA Composting and other organic waste recycling technologies session organizer and chair, 2000.

Other Professional Responsibilities

Panel Member for film showing, Students for Environmental Awareness, Rutgers University, SEBS, April 23, 2015.

Participant in Samsung Summer Science program, Rutgers University 4-H, 2014.

Panel about research publishing at the Environmental Sciences Graduate Student mini-conference “Pursuing a Successful Career in Science”, Rutgers University, February 5, 2012.

Career panel at the Douglass Women in Sustainability Symposium, Rutgers University, October 28, 2011.

Sabbatical leave with Professor Holger Wallbaum at the Institute for Construction and Infrastructure Management in the Department of Civil, Environmental and Geomatics Engineering at the ETH Zürich, Switzerland, 2011.

Collaboration with Liberty Science Center to incorporate research findings in its Green Buildings program, 2009-2013.

Invited participant of workshop entitled “Campus of the Future”, ARUP Engineering, December 3-4, 2009, Georgetown Conference Center, Washington, DC,.

Member of jury for Johnson & Johnson Worldwide Sustainability awards, 2007.

NSF Sustainable Engineering Scholar. 2006. Certificate for successful participation in sustainability engineering teaching workshop. July 17-19, 2006, Carnegie Mellon University. Pittsburgh, PA.

Invited participant of WERF/EPA Research Summit. July 28-30, 2003, Alexandria, Va.,

Leading author and host of September 2002 meeting of Responses Working Group “Waste Management, Processing and Detoxification” as part of the Millennium Ecosystem Assessment conducted by a partnership of intergovernmental and non-governmental organizations, 2002-2004. Awarded Zayed International Prize for the Environment (2005).

Member of New Jersey Task Force on Biosolids Utilization, 1995.

Member of the joint composting project in Germany sponsored by UBA (German EPA), 1991-1995.

Professional Society Memberships

International Waste Working Group member (IWWG).

American Society of Civil Engineers member (ASCE).

International Solid Waste Association member (ISWA).

Association of Environmental Engineering and Sciences Professors member (AEESP).

Department Committees

Civil Engineering Environmental Engineering Faculty Search Committee, 2017.

Curriculum Committee, 2014-present.

Environmental Sciences Cluster Hire Faculty Search Committee, 2008-2009.

Chair, Recruitment & Outreach Committee, 2006-2009.

Environmental Sciences Environmental Chemistry Faculty Search Committee, 2004.

Co-Chair, Extension Specialist in Water Quality Management Search Committee, 2001.

Senior Environmental Engineering Faculty Search Committee, 2001.

Environmental Biological Unit Processing Faculty Search Committee, 2001.

Honors

Fellowship at Rutgers University, Department of Environmental Sciences, Deutscher Akademischer Austauschdienst e.V., 1991.

Community Service

Main Street Highland Park, 2005 Volunteer of the Year Award, chair of garbage/litter committee.

Languages:

German, native language
English, fluent

Teaching Experience:

2007-present “Environmental Sustainability: Life-Cycle Assessment Tools”, Rutgers University.

1996-present “Design in Solid Waste Treatment Systems”, Rutgers University.

1999-2012 “Solid Waste Management & Treatment”, concurrently with “Design in Solid Waste Treatment Systems”, Rutgers University.

1996 “Design in Land Treatment Systems”, Rutgers University, taught 12 of 30 lectures.

1995-1996 “Bioresource Engineering Design”, Rutgers University, advised a senior design team of four students in the Fall and Spring semesters. The students did a pilot project to design the collection and composting of biodegradable food wastes for the Burlington County Office of Solid Waste.

1994 “Material Recovery from Wastes”, Technical University of Hamburg-Harburg, taught 5 of 12 lectures.

1991-1994 “Solid Waste Management”, Technical University of Hamburg-Harburg, taught 5 of 12 lectures each year.

1993 Short-course: “Introduction of Biowaste Collection and Composting”, Technical University of Hamburg-Harburg, 7 lectures with discussions.

1992-1993 “Material Recovery from Wastes”, Technical University of Hamburg-Harburg, taught 2 of 6 lectures each year.

1992 Short-course: “Introduction of the “Dual System”, Technical University of Hamburg-Harburg” (a new German regulation required recycling and disposal of packaging material), 7 lectures with discussions.

Advising:

Postdoctoral Research/Program Associate Advisor:

Barbara Rogers (Program Associate)	2001-2003
Mingbo Qu (Post-Doc)	1997-1998
Lisa Boyles (Program Associate)	1995-2000

Ph.D. Advisor

Youyou Xiong Department of Environmental Sciences, 2009-
Francis Jordan* Department of Environmental Sciences, 2008-
Ching-Ling Tsai** “Water Quality Issues and Life-Cycle Energy Consumption of Glass
Container Recycling in New Jersey”, Ph.D. Dissertation, Environmental
Sciences, 2004-2010.

(*Winner 1st Place, Ph.D. student poster competition at the New Jersey Water Environment Association (NJWEA) 100th Annual Conference in 2015, **Winner 1st Place, Ph.D. student poster completion at the NJWEA 91st Annual Conference in 2006)

M.S. Advisor (thesis)

Rutgers

Ross Hull* “Characterization of Material Excavated from the Burlington County
Landfill”, MS Thesis, Environmental Sciences, 1999-2003.
Paul Romano** “Reduction of Fecal Streptococcus and Strongyle Eggs, and Release of
Aspergillus Fumigatus during Small Scale Composting of Horse Manure
Mixed with Wood Shavings”, MS Thesis, Environmental Sciences, 1999-
2003.

(*Received SCS Engineers – Montenay/Terrence L. Guest Memorial Scholarship Award in 2000 and PVSC Award from the New Jersey Water Environment Association in 2001, ** Received Louis Fontenelli Award from the New Jersey Water Environment Association in 2001)

Technische Universität Hamburg-Harburg/Fachhochschule Hamburg-Bergedorf

Dirk Kowalczyk “The Potential for Leachate and Gas Pollution from MSW in Landfills”,
MS Thesis, Bioenvironmental Engineering, 1991-1993. Co-advisor.
Andreas Maack “Natural Organic Constituents and Synthetic Organics in Biowaste
Fractions and Their Impact on the Composting Process and Compost
Quality”, MS Thesis, Bioenvironmental Engineering, 1989-1991.
Sabine Franke “Composting and Odors”, MS Thesis, Bioenvironmental Engineering,
1989-1991.
Wilfried Meyer “Methods for Analyzing Compost Maturity”, 1986-1988.
Judith Parusel “Composting of Biowaste and Suggestions for an Implementation in
Hamburg”, MS Thesis, Bioenvironmental Engineering, 1985-1987.

M.S. Advisor (coursework)

Arjun Surendra	graduated	2008-2012	Environmental Sciences.
Catherine MacNeill	graduated	2007-2009	Environmental Sciences.
Bhuvnesh Parekh	graduated	2000-2002	Environmental Sciences
Hai-Ning Chiang*	graduated	1997-1999	Environmental Sciences

(*Contributed to peer-reviewed journal article: “Selected Nutrients and Heavy Metals in Sewage Sludge from New Jersey POTWs”, Received award for poster from New Jersey Water Environment Association in 1999)

Undergraduate Research Advisor

Collen Gardina	NSF GET UP fellow	Appliance Water Consumption	2013
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Kate Sullivan	NSF REU	Life-Cycle Assessment – Central vs. On-Site Wastewater Treatment	2012-2013
Martin Moisteiro Romero*	James J. Slade Scholar	Life-Cycle Assessment – New Jersey vs. Swiss Building	2008-2010
LaKita Johnson	RISE program	Speciation of Coliforms from Glass Cullet Leachate (co-advised with Dr. Strom)	2007
Rachel Holmes	George H. Cook Scholar	Motivating Changes in Manure Handling Practices	2001-2004.
Larry Kasoff	George H. Cook Scholar	Vermicomposting vs. Traditional Composting	2001-2002
Friederike Grabbe	Undergraduate research	Inventory of Biodegradable Wastes in New Jersey	1995

(*Wrote peer-reviewed journal article: “Relative Importance of Electricity Sources and Construction Practices in Residential Buildings: A Swiss-US Comparison of Energy Related Life-Cycle Impacts”)

Ph.D, MS Committee Member

David Chang	MS (coursework), 2017.
Michael Johnson	“Development, Optimization, and Economic Evaluation of a Novel Attached Growth Algae Cultivation System”, Ph.D. Dissertation, Environmental Sciences, 2017.
Xindi Xu	MS (coursework), 2017.
Daniel Kopp	“Hydrothermal Vapor Synthesis (HVS) of Inorganic Oxides”, Ph.D., Dissertation, outside member, Material Science and Engineering, 2016.
Haibo Tang	MS (coursework), 2016.
Margaret Garcia	MS (coursework), 2015.
Jesse Sherry	“Community Supported Sustainability: How Ecovillages Model More Sustainable Community”, Ph.D. Dissertation, outside member, Planning and Public Policy, 2014.
Sarat Kannepalli	“Environmental Issues in Organics Recycling: Reed Bed Biosolids Reuse and Leachate from Woodmulch Stockpiles”, Ph.D. Dissertation, Environmental Sciences, 2014.
Vandana Subroy	“Hydraulic Properties of Recycled Wood Material, MS Thesis, Environmental Sciences, 2013.
David Babson	“Enhancing Energy Recovery from Biomass Waste Streams – From Mega-Landfills and Biorefineries to Microbial Communities”, Ph.D. Dissertation, Environmental Sciences, 2010.
Feng Qiao	“Biofilter Removal of Methane from Contaminated Air”, Ph.D. Dissertation, Environmental Sciences, 2007.
Javier Ramirez-Perez	“Aerobic Biodegradation Kinetics of Solid Organic Wastes on Earth and for Application in Space”, Ph.D. Dissertation, Environmental Sciences, 2005.

Archana Supraneka	“Selenite Reduction by Selected Aerobic Wastewater Treatment Microbial Communities and Response of Isolates to Selenite”, Ph.D. Dissertation, Environmental Sciences, 2002.	
Vishal Shah	MS (coursework), 2000.	
Stephen Hubbard	MS (coursework), 1997.	

Ph.D. Qualifier Committee Member

Daniel Kopp	2015	Material Science and Engineering
Ryan Anderson	2015	Material Science and Engineering
Michael Johnson	2015	Environmental Sciences
Sunirat Rattana	2012	Environmental Sciences
Sarat Kannepalli	2009	Environmental Sciences
Igor Madon	2009	Environmental Sciences, University of Nova Gorica, Slovenia
David Babson	2008	Environmental Sciences
Feng Qiao	2007	Environmental Sciences
Adewale Adewunmi	2006	Environmental Sciences
Javier Ramirez-Perez	2001	Environmental Sciences
Archana Supraneka	1998	Environmental Sciences

Undergraduate Co-op Advisor

Amanda Giesler	2007	Rutgers Cooperative Extension
Greg Rusciano	1999	NJ Solid Waste Policy Group at Rutgers, Assistant to the Coordinator of the Solid Waste Policy Group
Melanie Trupo	1999	Rutgers Cooperative Extension
Christine Wiederhold*	1998	Rutgers Cooperative Extension
(*Wrote “Land Application of Sewage Sludge (Biosolids), Fact Sheet #6: Soil Amendments and Heavy Metals”)		
Michael Pokler	1996	Union County Bureau of Environmental Affairs, Recycling Assistant.
Thomas Battagliese	1996	NJEE Environmental Assistant
Jeffrey Zuber	1995	Union County Bureau of Environmental Affairs, Recycling Assistant.

Graduate Research Internship/Special Problems Advisor

Givette Esquerre	2016	Waste Composition Study
Anna Rubenchik	2010-2012	Monitoring Plug-Loads in Green Buildings
Lothar Tröger	2000	Horse Manure Composting
Archana Supraneka	1998	Horse Manure Composting

Research Experience for Teachers in Engineering

Roger Cavallo, Plainfield Public School District	2012	Stockpile Research
Oscar Feijoo, Plainfield Public School District	2012	Stockpile Research

Extension Publications:

1. Barker, A., Harrison, E., Hay, A., Krogmann, U., McBride, M., McDowell, W., Richards, B., Steenhuis, T., Stehouwer, R.: Guidelines for Application of Sewage Biosolids to Agricultural Lands in the Northeastern US. Edited by Harrison E. and Krogmann, U. Rutgers Cooperative Cooperative Extension Bulletin #317, 2007, 36 pp.
2. Krogmann, U., Rogers, B.F., Westendorf, M.L.: Best Management Practices for Horse Manure Composting on Small Farms. Rutgers Cooperative Extension Bulletin #E307, 2006, 9 pp.
3. Westendorf, M.L., Krogmann, U.: Horse Manure Management: Bedding Use. Rutgers Fact Sheet #FS537, 2006, 3 pp.
4. Heckman, J.R., Krogmann, U.: Nutrient Management of Applied Grass Clippings. Rutgers Fact Sheet #FS1023, 2006, 2 pp.
5. Westendorf, M., Krogmann, U.: Horses and Manure. Rutgers Fact Sheet #FS036, 2004, 4 pp.
6. Krogmann, U., Rogers, B.F., Boyles, L.S., Bamka, W.J., Heckman, J.R.: Guidelines for Land Application of Non-Traditional Organic Wastes (Food-Processing By-Products and Municipal Yard Wastes) on Farmlands in New Jersey. Rutgers Fact Sheet #E281, 2003, 21 pp.
7. Rutgers Cooperative Extension Working Group: Guidelines for the Land Application of Sewage Sludge for New Jersey Agriculture. Edited by Krogmann, U., Boyles, L.S., Heckman, J.R. Rutgers Cooperative Extension Bulletin #E228, 2001, 50 pp.
8. Rutgers Cooperative Extension Working Group: Land Application of Sewage Sludge (Biosolids), #1: Questions to Ask Before Considering Application on Farmland. Rutgers Fact Sheet #951, 1999, 2 pp.
9. Krogmann, U., Boyles, L.S.: Land Application of Sewage Sludge (Biosolids), #2: Regulations. Rutgers Fact Sheet #952, 1999, 3 pp.
10. Krogmann, U., Boyles, L.S.: Land Application of Sewage Sludge (Biosolids), #3: Different Types of Sewage Sludge. Rutgers Fact Sheet #953, 1999, 3 pp.
11. Rutgers Cooperative Extension Working Group: Land Application of Sewage Sludge (Biosolids), #4: Guidelines for Land Application in Agriculture. Rutgers Fact Sheet #954, 1999, 6 pp.
12. Krogmann, U., Boyles, L.S.: Land Application of Sewage Sludge (Biosolids), #5: Heavy Metals. Rutgers Fact Sheet #955, 1999, 3 pp.
13. Krogmann, U., Heckman, J.R., Boyles, L.S. and Wiederhold, C.: Land Application of Sewage Sludge (Biosolids), #6: Soil Amendments and Heavy Metals. Rutgers Fact Sheet #956, 1999, 4 pp.
14. Krogmann, U., Boyles, L.S.: Land Application of Sewage Sludge (Biosolids), #7: Organic Contaminants. Rutgers Fact Sheet #957, 1999, 4 pp.
15. Krogmann, U., Boyles, L.S.: Land Application of Sewage Sludge (Biosolids), #8: Pathogens. Rutgers Fact Sheet #958, 1999, 3 pp.

Books:

1. Krogmann, U.: Kompostierung - Grundlagen zur Einsammlung und Kompostierung von Bioabfällen unterschiedlicher Zusammensetzung (Analysis of biowastes generated by separate collection and of composting various mixtures of biowaste fractions). 437 pages. Hamburger Berichte zur Abfallwirtschaft, Volume 7, Economica Verlag, Bonn/Germany, 1994.

Book Chapters:

1. Krogmann, U., Liban, C.B., Puppala, A.J. and Reddy, K.R.: Waste Management: Conservation, Reuse and Recycling of Materials and Components. In: Engineering for Sustainable Communities: Principles and Practices, Kelly, W., Luke, B., Wright, R., ASCE, Reston, Va., 2017, pp. 223-236.
2. Krogmann, U., Körner, I. and Diaz, L.F.: Composting: Technology. In: Solid Waste Technology and Management, Christensen, T.H. (ed.), John Wiley & Sons, Chichester, UK, 2010, pp. 533-568.
3. Boldrin, A., Körner, I., Krogmann, U. and Christensen, T.H.: Composting: Mass Balances, Product Quality and Unit Process Inventory. In: Solid Waste Technology and Management, Christensen, T.H. (ed.), John Wiley & Sons, Chichester, UK, 2010, pp. 569-582.
4. Krogmann, U.: Composting. In: Spinosa, L., Vesilind, P.A. (eds.) Sludge to Biosolids, London/UK, IWA Publishing, 2001, pp. 259-277.
5. Krogmann, U. and Körner, I.: Technology and Strategy of Composting. In: Rehm, H.-J., Reed, G., Pühler, A., Stadler, P. (series eds.) Biotechnology. Klein, J., Winter, J. (eds.) Environmental Processes III- Solid Waste and Waste Gas Treatment, Preparation of Drinking Water, vol. 11c, Weinheim, New York, Wiley - VCH, 2000, pp. 127-150.
6. Krogmann, U.: Vergärung oder Kompostierung? (Anaerobic digestion or composting?). In: Märkl, H. and Stegmann, R. (eds.). Anaerobe Behandlung von festen und flüssigen Rückständen, DECHEMA Monographien, vol. 130, Weinheim/Germany, VCH, 1994, pp. 231-248.

Journal and Newsletter Articles (not refereed):

1. Krogmann, U.: Waste composting for urban and peri-urban agriculture: closing the rural-urban nutrient cycle in Sub-Saharan Africa. *Soil Sci.*, 168(2), 2003, 147-148.
2. Hamel, S., Heckman, J.R. and Krogmann, U.: Yard waste and trash don't mix. *Landscaper* 13(10), 1999, 23.
3. Heckman, J.R. and Krogmann, U.: Yard waste and trash don't mix. *Plant and Pest Advisory, Landscape Nursery and Turf Edition* 5(12), 1999, 2.
4. Krogmann, U.: Quantity and Quality of Separately Collected Biowaste in West Germany.

Conference Proceedings:

1. Krogmann, U., Giménez, D., Miskewitz, R., Kannepalli, S., Subroy, V., and Strom, P.F.: An Investigation of Quantity and Quality of Runoff from Wood Mulch Stockpiles. Proceedings of the 14th International Waste Management Landfill Symposium in S. Margherita di Pula/Italy on September 30 – 4 October, 2013, published by CISA, Padova/Italy, 8 pp.
2. Xiong, Y., Krogmann, U., Rodenburg, L., and Senick, J.S.: Impact of Green Renovation Practices on Indoor Quality. Conference Proceedings of the 104th Air & Waste Management Association Conference & Exposition in Orlando, FL on June 21-24, 2011, published by the Air & Waste Management Association, Pittsburgh, PA, 5 pp.
3. Krogmann, U., Andrews, C.J., Jordan, F.C., Rubenchik, A., Surendra, A., and Xiong, Y.: Water and Energy End-Use Measurements in Apartments in a Residential High-Rise Building in the Northeast. Conference Proceedings of "Engineering Sustainability 2011" in Pittsburgh, PA on April 10-12, 2011, published by Mascaro Center for Sustainable Innovation at the University of Pittsburgh, Pittsburgh, PA, 2 pp.
4. Xiong, Y., Mainelis, G., and Krogmann, U.: Indoor Air Quality in a Green Residential High-Rise Building in the US. Proceedings of the 7th International Conference on Indoor Air, Ventilation and Energy Conservation in Buildings in Syracuse, NY on August 15-18, 2010, published by Syracuse University, Syracuse, NY, 8 pp.
5. Krogmann, U., Minderman, N., Senick, J.S., and Andrews, C.J.: Life-Cycle Assessment of a Green Educational Building: A Case-Study. Proceedings of the US Israel Workshop on Sustainable Buildings – Materials and Energy (online), in Haifa/Israel on July 12-13, 2010, published by Technion, Haifa/Israel, 2 pp.
6. Babson, D., Krogmann, U., Fennell, D., and Ravit, B.: Development of a Dynamic Energy Balance to Assess Operating Efficiency of the Burlington County Bioreactor Landfill in New Jersey (USA). Eleventh International Landfill Symposium in S. Margherita di Pula/Italy on 1-5 October, 2007, published by the Environmental Sanitary Engineering Centre, Cagliari/Italy, 10 pp.
7. Heckman, J.R., Krogmann, U., and Westendorf, M.: Results from a Survey for Yard Waste Management and a Proposal for Composting. 2005 Turfgrass Proceedings from the New Jersey Turfgrass Expo in New Brunswick, NJ, on December 6-8, 2005, published by the Rutgers Center for Turfgrass Science, New Brunswick, NJ, pp. 277-278.
8. Krogmann, U., Rogers, B.F., Boyles, L.S., Heckman, J.R., and Bamka, W.: Best Management Practices for the Use of Non-Traditional Organic Wastes in Agriculture in New Jersey/USA. Proceedings of the "Nineteenth International Conference on Solid Waste Technology and Management" in Philadelphia, PA, on March 21-24, 2004, published by the University of Pennsylvania, 6 pp.
9. Krogmann, U., Westendorf, M.L., Rogers, B.F., and Romano, P.V.: Best Management Practices for Horse Manure Composting on Small Farms in Monmouth County/New Jersey (USA). Proceedings of the Fourth International Conference of ORBIT

- Association on Biological Processing of Organics: Advances for a Sustainable Society (Part 1) in Perth/Australia on 30 April - 2 May, 2003, published by Centre for Organic Waste Management, Murdoch University, Perth/Australia, pp. 366-374.
10. Krogmann, U.: Basics of Solid Waste Composting. 2002 A&WMA Annual Meeting Proceedings in Baltimore, MD, on June 23-27, 2002 (CD-ROM), 13 pp.
 11. Krogmann, U., Romano, P.V., and Westendorf, M.: Reduction of Fecal Streptococci and Strongyle Eggs during Small-Scale Composting of Horse Manure Mixed with Wood Shavings. Proceedings of 2002 International Symposium "Composting and Compost Utilization" in Columbus, OH, on 6-8 May, 2002, published by Ohio State University (CD-ROM), 12 pp.
 12. Hull, R.M., Krogmann, U., and Strom, P.F.: Characterization of Municipal Solid Waste (MSW) Reclaimed from a Landfill. Proceedings of the Eighth International Landfill Symposium in S. Margherita di Pula/Italy on 1-15 October, 2001, published by the Environmental Sanitary Engineering Centre, Cagliari/Italy, pp. 567-576.
 13. Krogmann, U. and Gibson, V.: Land Application of Sewage Sludge: Perceptions of New Jersey Vegetable Farmers. Proceedings of International Solid Waste Association World Congress 2000 in Paris/France on July 3-7, 2000 (CD-ROM), 4 pp.
 14. Goldfarb, W. and Krogmann, U.: Legal Problems regarding Land Application of Sewage Sludge in the United States. Proceedings of the 1st International Conference of the International Water Association in Paris/France on July 3-7, 2000 (CD-ROM), 8 pp.
 15. Krogmann, U., Goldfarb, W., Gibson, V., and Boyles, L.S.: Land Application – An Extension Perspective. Proceedings of the NSF sponsored workshop "Biosolids Management in the 21st Century" in College Park, MD, on April 10-11, 2000, published by the Department of Civil & Environmental Engineering, University of Maryland, pp. 161-167.
 16. Krogmann, U.: Leachates, Condensates and Effluents Released from Composting Facilities Processing Source-Separated Food and Yard Waste. 1999 A&WMA Annual Meeting Proceedings in St. Louis, MO, on June, 1999 (CD-ROM), 8 pp.
 17. Krogmann, U. and Boyles, L.: Best Management Practices for the Land Application of Non-Traditional Organic Wastes in Agriculture. Proceedings of SWANA's WASTECON 1998 and International Solid Waste Association World Congress 1998 in Charlotte, NC, on October 27-29, 1998, published by SWANA, pp. 613-618.
 18. Krogmann, U. and Qu, M.: Landfill Mining in the United States. Proceedings of the Sixth International Landfill Symposium in S. Margherita di Pula/Italy on October 13-17, 1997, published by the Environmental Sanitary Engineering Centre, Cagliari/Italy, pp. 543-552.
 19. Krogmann, U.: Anforderungen an die Klärschlamm- und Kompostqualität: Ein deutsch-amerikanischer Vergleich (Biosolids and Composting Quality Criteria: A Comparison between Germany and the US). In: Stegmann, R. (ed.). Neue Techniken der Kompostierung. Hamburger Berichte zur Abfallwirtschaft, vol. 11, Economica Verlag, Bonn/Germany, 1996, pp. 291-302.
 20. Krogmann, U.: Anaerobic Digestion or Composting for Waste Pretreatment. Proceedings of the Fifth International Landfill Symposium in S. Margherita di Pula/Italy on 2-6

- October, 1995, published by the Environmental Sanitary Engineering Centre, Cagliari/Italy, pp. 937-945.
21. Krogmann, U. and van Raaij, E.: Compost Quality Related to Different Community Types. Proceedings of the First International Symposium of Biological Waste Management "A Wasted Chance?" in Essen/Germany on April 4-6, 1995, published by the University of Essen, pp. S 56-1 - S 56-8.
 22. Krogmann, U.: Odor Emissions of Different Organic Substrates. Proceedings of the "Tenth International Conference on Solid Waste Management" in Philadelphia, PA, on November 13-16, 1994, published by the University of Pennsylvania, pp. 4D-1 - 4D-8.
 23. Krogmann, U.: Probleme der getrennten Sammlung (Issues in separate collection of MSW). Proceedings of ATV-Fortbildungskurs G/6 "Abfall – Vermeiden, Vermindern, Entsorgen" in Fulda, Germany on October 6-8, 1994, published by ATV, pp. 5/1-5/19.
 24. Krogmann, U.: Effect of Different Pretreatments on Landfill Emissions. Proceedings of the Fourth International Landfill Symposium in S. Margherita di Pula/Italy on October 11-15, 1993, published the Environmental Sanitary Engineering Centre, Cagliari/Italy, pp. 2029-2036.
 25. Krogmann, U.: Möglichkeiten zur Steuerung des Kompostierungsprozesses zur Verfahrensoptimierung, zur Minimierung von Emissionen und Verbesserung der Kompostqualität (Possibilities of regulating the composting process for optimizing the process, minimizing odors and leachate and improving compost quality). In: Gallenkemper, Doedens, Stegmann (eds.). 3. Münsteraner Abfallwirtschaftstage - Vermeidung und Verwertung in Betrieb und Kommune, Fachhochschule Münster, Münster/Germany, 1993, pp. 285-290.
 26. Krogmann, U.: Dynamic and Quasi-dynamic Composting Systems. Proceedings of the Second International Forum "Resource Recovery from Waste" in Imola/Italy on September 21-24, 1992, published by the Municipal Government of Imola, pp. 255-266.
 27. Krogmann, U.: Separate Collection of Biowaste. Proceedings of the "Sixth International Conference on Solid Waste Management and Secondary Materials" in Philadelphia, PA, on December 4-7, 1990, published by the University of Pennsylvania, pp. C6-1 - C6-6.
 28. Krogmann, U.: Einsammlung von Bioabfällen im Stadtbereich (Separate collection of biowaste in the city). Proceedings of the Environmental Exhibition '90 in Neumünster/Germany on June 7-10, 1990, published by Innova GmbH, Neumünster, pp. 304-312.
 29. Krogmann, U.: Separate Collection of Biowaste. Proceedings of the First International Forum "Resource Recovery from Waste" in Imola/Italy on May 15-18, 1990, published by the Municipal Government of Imola, pp. L1-L10.
 30. Stegmann, R. and Krogmann, U.: Composting of the Organic Fraction of Municipal Solid Wastes Separated through Selected Collection. Proceedings of the International Symposium "Compost Production and Use" in S. Michelle all'Adige, Italy on June

- 20-23, 1989, published by the Instituto Agrario Provinciale S. Michele a/A. – Trento, pp. 147-158.
31. Krogmann, U.: Menge und Zusammensetzung der erfaßten Bioabfälle (Quantity and Quality of Biowaste). In: Berichte der Fachhochschule Münster, no. 9, Münster/Germany, 1989, published by the Fachhochschule Münster, pp. 187-194.
 32. Krogmann, U.: Separate Collection and Composting of Putrescible Municipal Waste (MSW) in West Germany. In: ISWA 88 PROCEEDINGS of the 5th International Solid Wastes Conference, vol. 1, Academic Press, London, San Diego, 1988, pp. 57-63.

Abstracts:

1. Patton, A.P., Calderon, L., Xiong, Y., Wang, Z., Senick, J.S., Sorensen-Allacci, M., Plotnik, D., Wener, R., Andrews, C.J., Krogmann, U., and Mainelis, G. 2015. Airborne Particulate Matter in Multi-Family Green Buildings, 34th Annual Conference of the American Association of Aerosol Research, Minneapolis, MN.
2. Krogmann, U. and Sullivan, K. 2015. Life-Cycle Assessment of Centralized versus On-Site In-Building Wastewater Treatment. Life-Cycle Assessment XV, Vancouver/Canada.
3. Jordan, F.J. and Krogmann, U. 2015. Can the Inclusion of User Activities Improve Water Consumption Predictions. 100th NJWEA Annual Conference, Atlantic City, NJ.
4. Jordan, F.J. and Krogmann, U. 2014. Water Consumption in Green Residential High-Rise Buildings: Two Case Studies in the Northeastern US. 2014 UCOWR/NTWR/CUAHSI Annual Conference: Water Systems, Science, and Society under Global Change in Medford, MA.
5. Xiong, Y., Krogmann, U., Mainelis, G., Rodenberg, L.A., and Andrews, C.J. 2013. Indeterminate Indoor Air Quality in Green Buildings. A Case-Study in a Residential High-Rise Building in the Northeastern US. Environmental Health, Boston, MA.
6. Andrews, C.J., Hewitt, E., and Krogmann, U. 2012. Evaluating a Green Luxury Rental High-Rise Apartment Building in NYC. 22th IAPS: Human Experience in the Natural and Built Environment: Implications for Research Policy and Practice, Glasgow/UK, pp. 56-57.
7. Andrews, C.J., Krogmann, U., Senick, J.S., Wener, R., Hewitt, E., Jordan, F., and Sorensen-Allacci, M. 2012. Using Survey Research to Understand Occupant Perceptions and Behavior in Urban Green Buildings. Symposium on Planning Healthy, Sustainable Communities celebrating the 20th Anniversary of the Edward J. Bloustein School of Planning & Public Policy, New Brunswick, NJ.
8. Krogmann, U. and Silver, D. 2012. Science Masters Program (SMP) in Sustainability: Fueling Innovation through Graduate Education. Symposium Abstracts of SETAC Europe 18th LCA Case Study Symposium, Copenhagen, Denmark, TOSS01-02 (p. 171).
9. Mainelis, G., Xiong, Y., Wang, Z., Krogmann, U., et al. 2011. Investigation of Bioaerosols and Other Indoor Air Quality Parameters in Two Green Residential Buildings in the Northeastern US. AAAR 30th Annual Conference, Orlando, FL.

10. Uchirin, C., Krogmann, U., and Gimenez, D. 2010. Bioenvironmental Engineering: An Interdisciplinary Approach to Training Environmental Engineers at Rutgers University. EGU General Assembly Abstracts, Vienna, Austria, vol. 12, p. 15431.
11. Tsai, C.-L., Krogmann, U., and Hull, R.M. 2010. Energy and Material Flow Analysis of Glass Container Recycling in New Jersey. Global Waste Management Symposium, San Antonio, TX.
12. Krogmann, U., Minderman, N., Senick, J.S., and Andrews, C.J. 2009. Life-Cycle Assessment of the New Jersey Meadowlands Commission Center for Environmental and Scientific Education Building. Life-Cycle Assessment IX, Boston, MA.
13. Loudon, J., Cooper, K., Krogmann, U., Ravit, B., and Fennell, D. 2008. Chlorinated Ethenes in Landfill Microcosms. Society of Environmental Toxicology and Chemistry – North America, 29th Annual meeting, Tampa, FL.
14. Tsai, C.L., Krogmann, U. and Strom, P.F. 2008. Handling Leachate from Glass Cullet Stockpiles. 2008. Global Waste Management Symposium, Copper Mountain, CO.
15. Krogmann, U. 2008. Defining and Measuring Sustainability in Building Water Infrastructure. Abstracts of 14th European Water, Wastewater and Solid Waste Symposium, Munich, Germany, p. 37.
16. Babson, D., Fennell, D., Krogmann, U., and Ravit, B. 2008. Sustainable Waste Management System Design: Developing and Utilizing and Energy Balance to Assess Efficiency and Propose Enhancement. 23rd International Conference on Solid Waste Technology and Management, Philadelphia, PA.
17. Tsai, C.L., Krogmann, U. and Strom, P.F. 2008. Handling Leachate from Glass Cullet Stockpiles. 23rd International Conference on Solid Waste Technology and Management, Philadelphia, PA.
18. Loudon, J., Cooper, K., Krogmann, U., Ravit, B., and Fennell, D. 2008. Fate of Chlorinated Ethenes in Landfill Microcosms. New Jersey Water Environment Association, 93rd Annual Conference, Atlantic City, NJ.
19. Krogmann, U. and Andrews, C.J. 2008. Self-Sufficient Urban Buildings. 2008 NSF CMMI Engineering Research and Innovation Conference, Knoxville, TN.
20. Johnson, L.D., Krogmann, U., Strom, P.F., and Tsai, C.L. 2007. Speciation of Coliforms in Wash Water of Glass Cullet and in Leachate from Glass Cullet Stockpiles. 2007 Annual Biomedical Research Conference for Minority Students (ABRCMS), Austin, TX.
21. Babson, D., Krogmann, U., Ravit, B., and Fennell, D. 2007. Bioenergy Production from Optimized Bioreactor Landfills. Fifth Tripartite Workshop in Biotechnology, East Brunswick, NJ.
22. Babson, D., Krogmann, U. and Fennell, D. and Ravit, B. 2007. Development of a Dynamic Energy Balance to Assess Operating Efficiency of the Burlington County Bioreactor Landfill in New Jersey (USA). New Jersey Meadowlands Symposium II, Lyndhurst, NJ.
23. Krogmann, U., Andrews, C.J., Kim, M., Kiss, G., and Mifflin, C. 2006. Mass Balance for the Solaire and the 2020 Tower: Implications for Closing the Water Loop in High-Rise

- Buildings. NSF Workshop “Resilient and Sustainable Infrastructures”, Washington, DC.
24. Krogmann, U., Andrews, C., Kim, M., Kiss, G., and Mifflin, C. 2005. Trade-off Analysis for the 2020 Tower: A Case Study. International conference “Towards the City Surface of Tomorrow”, Vienna/Austria.
 25. Krogmann, U., Andrews, C., Kim, M., Kiss, G., and Mifflin, C. 2005. Trade-off Analysis for the 2020 Tower: A Case Study. Innovative Environmental Technology Conference, NJIT, Newark, NJ.
 26. Kim, M., Andrews, C., Krogmann, U., Kiss, G., and Mifflin, C. 2005. Self-Sustaining Skyscraper Design Trade-off Analysis: 2020 Tower. International Society of Industrial Ecology 2005 Conference, Stockholm/Sweden.
 27. Fennell, D.E., Liu, F., Son, E.-K., Zarnadze, A., Krogmann, U., and Totten, L. 2005. Biotransformation of Halogenated Contaminants in Sludges and Enrichments from Municipal Anaerobic Digesters. SETAC 26th Annual Meeting in North America, Baltimore, MD.
 28. Krogmann, U., Andrews, C., and Kim, M.H. 2005. Towards Self-Sustaining High-Rise Buildings: Framework for an Analysis of Materials, Energy, Economic and Social Issues. Engineering Sustainability 2005, Pittsburgh, PA.
 29. Krogmann, U., Andrews, C.J., and Kim, M.H. 2005. Towards Self-Sustaining High-Rise Buildings: Framework for an Analysis of Materials, Energy, Economic and Social Issues. 2005 NSF BE Investigators’ Meeting, Washington, DC.
 30. Zarnadze, A., Totten, L., Fennell, D.E., Giacalone, M., and Krogmann, U. 2004. PBDEs in the NY/NJ Harbor Estuary. Proceedings of the American Chemical Society, Division of Environmental Chemistry, 228th ACS National Meeting, Philadelphia, PA.
 31. Krogmann, U., Westendorf, M.L., Rogers, B.F., and Romano, P.V. 2004. Best Management Practices for Horse Manure Composting on Small Farms in Monmouth County/New Jersey. Abstracts of the Northeastern Branch of American Society of Agronomy.
 32. Rogers, B.F., Krogmann, U., and Kumudini, S. 2003. Evaluation of a Novel Organic Mulch in Blueberry Production: Characteristics, Plant Nutrient Uptake, and Weed Suppression. Abstracts of the Northeastern Branch of the American Society of Agronomy, p. 20.
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2. Andrews, C.J., Senick, J., Haus, M.L., Stanek, D., Krogmann, U., Rodenburg, L., Shin, J.Y., Mosteiro-Romero, M. and Xiong, Y.: Green Residential Home Study: A Shore Community in New Jersey. 92 pages. Report prepared by the Rutgers Center for Green Building & Associates for USGBC – NJ Chapter, 2011.
3. Senick, J., Andrews, C.J., Haus, M.L., Wener, R., Kornitas, M., Bolen, M., Samat, P., Krogmann, U. and Jordan, F.: Waterfront Technology Center Study: A New Jersey Economic Development Authority Building. 77 pages. Report prepared by Rutgers Center for Green Building for USGBC – NJ Chapter, 2011.

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2. Krogmann, U. and Sullivan, K. 2015. Life-Cycle Assessment of Centralized versus On-Site In-Building Wastewater Treatment. Life-Cycle Assessment XV in Vancouver/Canada, October 6 – October 8, 2015.

3. Krogmann, U., Gimenez, D., Miskewitz, R., Kannepalli, S., Subroy, V., and Strom, P.F. 2013. An Investigation of Quantity and Quality of Runoff from Wood Mulch Stockpiles. 14th International Waste Management Landfill Symposium in S. Margherita di Pula/Italy, September 30 – 4 October, 2013.
4. Krogmann, U. 2013. Relative Importance of Electricity Sources and Construction Practices in Residential Building: A Swiss-US Comparison of Energy Related Life-Cycle Impacts. Seminar at the Department of Environmental Sciences, Rutgers University, New Brunswick, NJ, March 15, 2013.
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6. Krogmann, U. 2011. Self-Sufficient Urban Buildings. ETH Zürich, Institute for Environmental Engineering, Zürich/Switzerland, June 22, 2011.
7. Krogmann, U., Minderman, N., Senick, J.S., and Andrews, C.J. 2010. Life-Cycle Assessment of a Green Educational Building: A Case-Study. US Israel Workshop on Sustainable Buildings – Materials and Energy, Haifa/Israel, July 12-13, 2010.
8. Krogmann, U., Minderman, N., Senick, J., and Andrews, C.J. 2009. Life-Cycle Assessment of the New Jersey Meadowlands Commission Center for Environmental and Scientific Education Building. Life-Cycle Assessment IX, Boston, MA.
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11. Krogmann, U. 2008. Water Mass Balances for High-Rise Buildings: Implications for Closing the Water Loop. 14th European Water, Wastewater and Solid Waste Symposium, Munich/Germany, May 5-9, 2008.
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Engineering Seminar: Land Application of Wastes: Municipal Wastewater Sludge Issues, Cornell University, Ithaca, NY, April 22, 1997.

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36. Krogmann, U. 1993. Probleme der getrennten Sammlung (Challenges of separate collection). ATV-Fortbildungskurs G/6 "Abfall -Vermeiden, Vermindern, Entsorgen-", Fulda/Germany, October 6-8, 1993.
37. Krogmann, U. 1993. Effect of Different Pretreatments on Landfill Emissions. Fourth International Landfill Symposium, S. Margherita di Pula/Italy, October 11-15, 1993.
38. Krogmann, U. 1993. Möglichkeiten zur Steuerung des Kompostierungsprozesses zur Verfahrensoptimierung, zur Minimierung von Emissionen und Verbesserung der Kompostqualität (Possibilities of regulating the composting process for optimizing the process, minimizing odors and leachate and improving compost quality). 3. Münsteraner Abfallwirtschaftstage - Vermeidung und Verwertung in Betrieb und Kommune -, Münster/Germany, February 8-10, 1993.
39. Krogmann, U. 1992. Dynamic and Quasi-Dynamic Composting Systems. Second International Forum "Resource Recovery from Waste", Imola/Italy, September 21-24, 1992.
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1. Krogmann, U.: Material Flows and Energy Analysis of Glass Containers Discarded in New Jersey, US. Rutgers Global Brigade Sustainability Conference, New Brunswick, April 7, 2012.
2. Krogmann, U.: Composting Manure Basics. On-Farm and Manure Composting School. Rutgers NJAES Office of Continuing Professional Education, New Brunswick, NJ, December 13-14, 2010.
(Presentation contributed to two online certificate courses "On-Farm Composting" (<http://campus.extension.org/course/view.php?id=897>) and "On-Farm Composting in New Jersey" (<http://campus.extension.org/course/view.php?id=685>))
3. Tsai, C.L. and Krogmann, U.: Use, Handling and Disposal of Compact Fluorescent Bulbs. Rutgers Cooperative Extension 2008 Annual Conference, New Brunswick, NJ, October 7, 2008.
4. Tsai, C.L., Krogmann, U. and Strom, P.F.: Best Management Practices for Glass Cullet Stockpiles. Rutgers Cooperative Extension 2008 Annual Conference, New Brunswick, NJ, October 7, 2008.
5. Krogmann, U.: Composting of Horse Manure. Horses 2007, Rutgers University in New Brunswick, NJ, March 31 –April 1, 2007.
6. Fennell, D.E., Liu, F., Son, E.-K., Zarnadze, A., Krogmann, U., Totten, L.A.: Fate of Brominated Flame Retardants in New Jersey Wastewater Treatment Facilities. USDA NECC 1010 Meeting, Ithaca, NY, October 18-19, 2006.

7. Fennell, D.E., Liu, F., Son, E.-K., Zarnadze, A., Krogmann, U., Totten, L.A.: Fate of Brominated Flame Retardants in New Jersey Wastewater Treatment Facilities. USDA NE 1001 Meeting, Ithaca, NY, July 7-8, 2005.
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9. Krogmann, U.: Anaerobic Digestion of Municipal Solid Waste Experience and Application of AD Technology in Europe. SWANA - NJ Annual Meeting and Technical Seminar, Bordentown, NJ, October 1, 2004.
10. Krogmann, U.: Composting Horse Manure on Small Farms. RCE Seminar "Horse Manure on Small Farms", Allentown, NJ, November 1, 2003.
11. Krogmann, U.: Integrating Development of Extension Materials and Formative Informal Evaluation: Land Application of Sewage Sludge as a Case Example. USDA NE 1001 Meeting, Ithaca, NY, June 16, 2003.
12. Krogmann, U.: Land Application of Sewage Sludge: Selected Nutrients and Heavy Metals in Sewage Sludge from New Jersey POTWs. USDA NE 1001 Meeting, Toronto/Canada, June 17, 2002.
13. Krogmann, U.: Rutgers Guidelines for Land Application of Sewage Sludge (Biosolids) in Agriculture. NJ Vegetable Growers Meeting, Atlantic City, NJ, January 15, 2002.
14. Krogmann, U., Westendorf, M.: Manure Management Practices for Horse Farms. 2001 Equine Research Update, New Brunswick, NJ, October 21, 2001.
15. Rogers, B.F., Kumudini, S., Krogmann, U.: Mulching Established Blueberry Plants with Cranberry Fruits and Leaves. RCE Cranberry Fruit Composting Workshop, Chatsworth, NJ, September 20, 2001.
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17. Krogmann, U.: Horse Manure Composting. RCE Equine Pasture Meeting. Showplace Farm, Monmouth County, NJ, August 21, 2001.
18. Rogers, B.F., Kumudini, S., Krogmann, U.: Use of Local Organic Wastes as Mulches in Blueberry Production. Organic Blueberry Growers Twilight Meeting sponsored by RCE and NOFA-NJ, New Egypt, NJ, July 20, 2001.
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20. Rogers, B.F., Kumudini, S., Krogmann, U.: Mulching Established Blueberry Plants with Cranberry Fruits and Leaves. Blueberry Growers Open House sponsored by RCE, Mount Holly, NJ, February, 2001.
21. Westendorf, M. and Krogmann, U.: Manure Management Practices for Horse Farms. 1999 Equine Research Update, New Brunswick, NJ, December, 2000.
22. Krogmann, U. and Rogers, B.: Land Application of Non-Traditional Organic Wastes to Farmland. NJDEP Pollution Control Workshop, Salem, NJ, October 26, 2000.

23. Krogmann, U., Heckman, J.R. and Goldfarb, W.: Land Application of Biosolids (In-Service Training). RCE Annual Conference, New Brunswick, NJ, April 27, 2000.
24. Krogmann, U.: Land Application of Sewage Sludge. Vegetable Integrated Crop Management Twilight Meeting, Vineland, NJ, March 20, 2000.
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28. Krogmann, U.: Current Status of Land Application Issues and BMPs of Sewage Sludge. Annual Meeting of NEC-100, "Application of Sewage Sludge to Agricultural Soils in the Northeast: Long Term Impact and Beneficial Uses, Syracuse, NY, December 16, 1998.
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30. Krogmann, U. and Boyles, L.S.: What You Always Wanted to Know about Biosolids (Sewage Sludge) and Were Afraid to Ask. NJ Vegetable Growers Meeting, Atlantic City, NJ, January 22, 1998.
31. Krogmann, U.: NJAES Agricultural Management Practices for the Utilization of Sewage Sludge and Sewage Sludge Products. Land Application and Residuals Management Seminar, New Jersey Department of Environmental Protection, Trenton, NJ, November 12, 1997.
32. Krogmann, U.: Introduction into Sewage Sludge (Biosolids) Management. Rutgers Cooperative Extension In-Service Training, New Brunswick, NJ, September 30, 1997.
33. Krogmann, U.: Waste Minimization/Pollution Prevention in the Mid-Atlantic Food System. Seminar for the Kellogg Planning Grant Project "Waste Minimization/Pollution Prevention Project", New Brunswick, NJ, August 28, 1997.
34. Krogmann, U.: Life Cycle Assessment. New Jersey Recycling Certification Series, New Brunswick, NJ, June 26, 1996.
35. Krogmann, U.: Solid Waste Management. NE NREM In-Service Training, Bushkill, PA, May 28-30, 1996.
36. Krogmann, U.: Recycling Issues in Agriculture. Growers meeting, Mount Holly, NJ, January 29, 1996.
37. Krogmann, U.: Solid Waste Management. NJ 4-H Conservation School, Phillipsburg, NJ, July 17-18, 1995.