

Manufactured Soils Conference



Matching Recycled Materials With Customers' Needs

November 12-13, 2003
Toftrees Resort
State College, PA

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PROP's Special Members

On the occasion of PROP's Annual Conference, the Board of Directors and staff want to express a special thanks to all of our Sponsoring and Corporate level members. These companies have gone above and beyond in their support of PROP and recycling in Pennsylvania.

Sponsoring Members



3407 Chestnut Street
Camp Hill, PA 17011
www.vquip.com



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Morton Grove, IL
www.aaaenvironmentalinc.com



214 Senate Avenue, Suite 105
Camp Hill, PA 17011
www.rwbeck.com

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• American Plastics Council	1300 Wilson Boulevard	Arlington, VA	www.plasticsresource.org
• BFI	One Briar Lane	King-of-Prussia, PA	www.bfi.com
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• Elkman/Alexander & Partners	100 Penn Square East	Philadelphia, PA	www.elkman-alexander.com
• Envirocycle	P.O. Box 899	Hallstead, PA	www.enviroinc.com
• Hy-Tech Mushroom Compost	155 Valley Road	West Grove, PA	
• Waste Management	843 Miller Picking Road	Davidsville, PA	www.wm.com

Take the opportunity to thank our Sponsoring and Corporate Members when you talk with them. Also express your appreciation to all our advertisers and sponsors. For more details on our upper level members, checkout our special members pages:

www.proprecycles.org/aboutcorporatemembers.html
www.proprecycles.org/aboutsponsors.html



Professional Recyclers of PA

P.O. Box 25 • Bellwood, PA 16617

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Toll Free: (800) 769-PROP (7767)

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November 2003

Welcome to State College:

On behalf of both the Conference Committee and the board of the Professional Recyclers of Pennsylvania (PROP), let me welcome you to Toftrees and our Manufactured Soils Conference.

PROP welcomed the membership of the Pennsylvania Composting Association earlier this year and both the old guard at PROP and the former PACA members have been very happy with the transition. While many PACA members were already members of PROP, another portion of the PACA membership had no "bottles, cans, and paper" recycling responsibilities at all. This diverse group included soil scientists, farmers, composting equipment manufacturers, food processors, and industrial environmental managers.

This conference is the first PROP multi-day event exclusively for that new constituency in our membership and we are excited about this new endeavor. Though different from the old traditional PROP members in some ways, you new members share the same passionate commitment to what you do.

Just like our "bottles, cans, and paper" members, our new organic recyclers find that much remains to be done. The Department of Environmental Protection's recently completed Waste Composition Study (on which PROP was an active partner) showed that compostable materials were one of the most significant recoverable components of the waste stream that currently ends up in landfills.

But it goes beyond even that, for we have welcomed members from the foundry industry and other generators of residual waste that can be blended with organics to make manufactured soils for a number of different uses. Many of those "untraditional" materials are the subject of sessions at the conference.

In addition to the sincere thanks we extend to our presenters, exhibitors, advertisers, and sponsors, we must also thank the conference committee. Special kudos are in order for committee chair, Rick Stehouwer, our registration coordinator, Barb Koehle, and our composting intern, Anu Patel. Be sure to thank them for their efforts above and beyond the call of duty.

We hope that you again benefit professionally from our conference, but don't forget to have a good time as well!

Sincerely,

A handwritten signature in black ink that reads "John Frederick". The signature is written in a cursive, flowing style.

John Frederick
PROP Executive Director

Exhibitors

Allu Group

The Allu Group offers a versatile product line of processing equipment for screening, crushing, mixing, pulverizing, aerating and loading of different materials.

Vince DeRienzo
861 Main Street
Hackensack, NJ 07601
Phone: (201) 457-1003
Fax: (201) 457-3339
E-Mail: vinced@allu.net

Carmeuse Lime

Carmeuse North America provides lime products and related technology for a variety of commercial and industrial applications. They are the largest producer of lime and limestone products in North America, manufacturing and distributing over 6 million tons per year of lime products, and a further 6.9 million tons of limestone aggregates. Our 14 manufacturing facilities supply and serve 27 states and provinces in the eastern USA and Canada.

James Derby
3600 Neville Road
Pittsburgh, PA 15225
Phone: (412) 777-0707
Fax: (412) 777-0727
E-Mail: james.derby@carmeusena.com
Website: www.carmeusena.com

Deacon Equipment Company

Deacon Equipment Company is an exclusive dealer for Morbark Industries of Winn, MI and Rayco Manufacturing of Wooster, OH. Morbark is a large manufacturer in central Michigan which produces a complete line of heavy equipment used in land clearing, wood waste recycling, forestry, sawmill, and brush chipping. Rayco is the producer of the finest line of stump cutters available today, and also manufactures a complete line of mini-crawlers.

Randall Record
22 Wedgetown Road
Bloomsburg, PA 17815
Phone: (570) 784-1206
Fax: (570) 784-2568
E-Mail: deacon@digital-link.net
Website: www.deaconequipment.com

Dials Marketing

Dials Marketing is a manufacturers rep organization. They have been in business since 1976 and pride themselves in the established friendships that have been developed over the years with both manufacturers and dealers. This closeness lends itself well to their business of facilitating the fastest, most efficient movement of agricultural or industrial machinery from the manufacturer, through the hands of capable dealers, to the end-user.

Marty Dials
183 Main Street
Red Hill, PA 18076
Phone: (215) 679-9736
Fax: (215) 679-4917
E-Mail: mdials@erols.com
Website: www.dialsmarketing.com

Graybill Equipment & Repair, Inc./ UltraCart

Graybill Equipment & Repair, Inc. began operation in 1978 by Robert Graybill, Sr. Graybill is a family owned and run business, providing a wide variety of products, sales and service in the refuse and composting industry. The company's main objective is to provide a quality product at an affordable price.

Robert Graybill, Jr.
3106 Elizabethtown Road
Hershey, PA 17033
Phone: (717) 533-4335
Fax: (717) 531-2150
E-mail: grabillequip@aol.com

Marcal Paper Mills, Inc.

Long before recycling came into vogue, Marcal Paper Mills developed a sanitary solution for the shortcomings of the disposable world. The firm collects 190,000 tons of paper and produces nearly that amount of recycled branded and private-label products -- paper towels, napkins, facial tissue, and other paper products for the home, office, and food-service industry, as well as biodegradable absorbents for oil spills and livestock bedding.

Patrick Kennedy
One Market Street
Elwood Park, NJ 07407
Phone: (201) 703-6404
Fax: (201) 703-6234
E-Mail: pkennedy@marcalpaper.com
Website: www.marcalpaper.com

Materials Matter, Inc.

Trudy Johnston
P. O. Box 224
Elizabethtown, PA 17022
Phone: (717) 367-9697
Fax: (717) 367-0367
E-Mail: trudy@paonline.com

McCloskey Bros., Inc.

Noel McCloskey Brothers has been involved in the fabrication of bulk material handling and processing equipment. All McCloskey Brothers products are designed, built, tested and continually improved to keep our customers updated with top-of-the-line products that will do the job right. At McCloskey Brothers, we take great pride in the continual development and improvement of our trommel series and stacking conveyor line.

2498 Franklin Avenue
Broomall, PA 19008
Phone: (610) 220-6504
Fax: (610) 356-1324
E-Mail: mccloskey_noel@msn.com
Website: www.mcbtrommels.com

PA Small Business Development Centers

The Pennsylvania SBDC provides consulting services and educational programs to entrepreneurs looking to start or grow a small business. SBDC consultants work with entrepreneurs in one-to-one sessions to help test a new business proposition, shape a business plan, or investigate funding opportunities.

Exhibitors

Nancy Crickman
University of PA
3733 Spruce Street - 4th Floor
Philadelphia, PA 19104
Phone: (215) 746-6473
Fax: (215) 573-2135
E-Mail: crickman@wharton.upenn.edu
Website: www.pasbdc.org

Professional Recyclers of PA

PROP was incorporated in 1991 as PA's recycling professional organization and is the state affiliate to the National Recycling Coalition (NRC). The organization advocates the enhancement of recycling and composting in the Commonwealth and has undertaken a number of professional development initiatives, most recently a professional certification program. Earlier this year, PROP welcomed former members of the PA Composting Association.

John Frederick
P. O. Box 25
Bellwood, PA 16617
Phone: (814) 742-7777
Fax: (814) 742-8838
E-Mail: jfrederick@proprecycles.org
Web Site: www.proprecycles.org/composthome.html

US EPA Climate and Waste Program

The Environmental Protection Agency's Climate and Waste Program provides a number of resources, web-based material, and printed guides related to composting, sewage sludge application, and uses for compost, other organic materials, and compostable residue wastes.

Dr. Rosalie Green
SEE Technical Advisor to EPA
Office of Solid Waste
phone: (703) 308-7268
fax: (703) 308-8686
E-Mail: green.rosalie@epa.gov
Web Site: www.epa.gov/region09/waste/solid/compost.htm

Recycled Soil Manufacturing Technology, LLC

This new company will be exhibiting a number of the manufactured soils they have produced by blending biosolids, manures, cellulose, yard waste, saw dust, and bagasse.

Dick Lee
3919 Fisher Ferry Road
Vicksburg, MS 39180
Phone: (601) 638-7836
E-Mail: rsmt03@aol.com

Royer Northeast Sales

Charlie Bagnall
P.O. Box 95
West Pittston, PA 18648
Phone: (877) 603-0208
Fax: (570) 883-1355
E-Mail: bagnall@aol.com

Wildcat Screen Services

Screen Services Ltd. is an equipment vendor representing Wildcat Manufacturing and other screening, crushing, and recycling equipment manufacturers. Wildcat also offers a wide range of compost turners. In the past the company has successfully assisted customers in the production of manufactured soils and "growing media".

Aidan McCracken
3085 Eastmont Avenue
Pittsburgh, PA 15216
Phone: (412) 848-4737
Fax: (412) 531-2457
E-Mail: apklac@msn.com

Zwicky Processing Recycling

Zwicky Processing & Recycling Inc. is a wood recycling and compost facility. We process a wide variety of yard debris, scrap wood, land-clearing debris, grass clippings, and leaves. Through our recycling process, we produce several varieties of wood mulch, manufactured topsoil, and finished compost available for wholesale to landscape contractors and retail nurseries. Zwicky also provides land clearing and roll-off container services for wood debris disposal.

Jeanne Weil
220 Buena Vista Road
Fleetwood, PA 19522
Phone: (610) 926-0731
Fax: (610) 926-0714
E-Mail: jweil.zwicky@att.net
Website: www.agmap.psu.edu/businesses/1040

Mark Your Calendar Now!

**The 2004 PROP Recycling and Composting Conference
Innovation, Evolution, and Opportunities**



July 27-29, 2004
The Woodlands Inn and Resort
Wilkes-Barre, PA

Speaker & Facilitator Biographies

Bill Achor, "Manure: Monkey Wrench or Missing Link," Environmental Coordinator, Wenger's Feed Mill, Inc., 101 West Harrisburg Avenue, Rheems, PA, 17570, Phone: (717) 367-1195, Fax: (717) 367-5913, E-mail: bachor@wengerfeeds.com
Bill currently coordinates all environmental and compliance affairs for Wenger's Feed Mill, Inc., a commercial poultry and swine feed manufacturer in Southeastern Pennsylvania. Bill works intimately with the livestock industry in educating them in current nutrient management regulations and environmental compliance. He also consults with independent feed customers in developing comprehensive environmental management programs that will promote a sustainable systems approach. Bill continues as a charter member of the Regional Economic Development District Initiatives (REDDI) Manure Focus Group as it aggressively pursues alternative uses to agriculture manures and other organic residuals. Bill grew up in Virginia where he received his Bachelor's of Science degree from Virginia Polytechnic Institute and State University. He lives with his wife, five children and Border collie in Landisville, PA.

Dave Beyer, "Spent Mushroom Substrate: Its Uses and Composition," Associate Professor/Mushroom Extension Specialist at Penn State University, 102 Buckhout Laboratory, University Park, PA 16803, Phone: (814) 863-7059, Fax: (814) 863-7217, E-mail: dmb8@psu.edu.

A mushroom farmer turned extension specialist, my extension activities include regular visits to mushroom farms to discuss practical solutions and integrated crop management techniques to help solve their composting and production challenges. My extension and research program involves 1) composting (and SMS) odor management and compost nutrition for the mushroom; 2) disease development and control, including Integrated Pest Management (IPM); 3) environmental factors affecting mushroom yield, size and quality; 4) improving fresh mushroom quality; 5) testing alternative casing and composting ingredients. My familiarity with the industry practices for managing composting operations and their concerns for reducing odors without compromising mushroom yield or quality is valuable for my research conducted on composting and odor reduction. I have developed and conducted several customized grower educational programs for mushroom farmers and suppliers.

Chris Cepko, "Innovative and Successful Programs," PennDOT, P.O. Box 496 Paupack, PA 18451, Phone: (570) 963-4117, E-mail: ccepko@state.pa.us.

Chris is a 1987 graduate of the Pennsylvania State University with a Bachelor of Science Degree in Civil Engineering. Mr. Cepko has been with the Pennsylvania Department of Transportation for 16 years and is currently a Quality Assurance Team Leader for QA East (District 4-0 and 5-0). He is currently Co-Chair of the Concrete Pavement Quality Improvement Task Force Subgrade Subcommittee. In his spare time, Chris enjoys hunting, fishing, and skiing. Chris lives in a log cabin with his wife and three dogs on Lake Wallenpaupack.

Timothy Craul, "Feasibility and Economics of Recycled vs. Native Soils," USDA-NRCS, 446 ASI Building, University Park, PA 16802, Phone: (814) 865-2306, E-mail: tac127@psu.edu.

Mr. Timothy A. Craul is a Certified Professional Soil Scientist who has seventeen years of soil science experience mapping, classifying, providing interpretations, and describing soils for the National Cooperative Soil Survey program within ten states and 14 physiographic provinces. Some of his current projects include: the Pennsylvania Avenue at the White House, Penn State University's East Subcampus expansion, Brooklyn Bridge Park, Euclid Avenue in Cleveland, and a rooftop application at Carnegie-Mellon University. Mr. Craul has completed projects in the Allegheny Riverfront Park in Pittsburgh, Blossom Music Center in Akron Ohio, EPA's Direct Delayed Acid Rain Response study, several depth to bedrock studies using ground penetrating radar, hydraulic conductivity study in the glaciated Allegheny Plateau, and a groundwater contaminate flow study. Timothy Craul has a Bachelors of Sciences degree in Agronomy and a Masters of Science in Soil Science from Penn State University.

Daniel Desmond, Keynote Address, Deputy Secretary, Pennsylvania Department of Environmental Protection, Rachel Carson Building, P.O. Box 2063, Harrisburg, PA 17105, Website: <http://www.dep.state.pa.us/dep/deputate/pollprev/deputy.htm>
Daniel Desmond is the Deputy Secretary for the Office of Energy and Technology Development. Mr. Desmond is responsible for fostering the development and use of innovative environmental and advanced energy technologies, including renewable energy. Additionally, he oversees DEP's Growing Greener Program – Pennsylvania's single largest environmental investment that helps empower local citizens to restore the Commonwealth's watersheds. Mr. Desmond joined the Pennsylvania Energy Office in 1983 and developed a number of environmental technology initiatives for the agency, and served as its Executive Director until its merger with DEP in 1995. From April 1995 until his appointment in May 2003, he was Chair of the Pennsylvania Energy Resources Center, an advocacy and public education project to secure funding for renewable energy in the aftermath of utility deregulation. In addition, he was President of Sustainable Systems Research, a Lancaster-based firm specializing in development and commercialization of environmentally beneficial technology.

James Dunn, "Transportation of Artificial Soils Materials," Professor of Agricultural Economics, The Pennsylvania State University, 203 Armsby Building, University Park, PA, 16802. Phone: (814) 863-8625, E-mail: jwd6@psu.edu

James W. Dunn is a Professor of Agricultural Economics at The Pennsylvania State University. Jim has been at The Pennsylvania State University since 1977, doing teaching, research, and extension in the areas of agricultural marketing and transportation, agricultural policy, food industry economics, and trade. He works especially in the areas of agricultural markets and price risk management. He teaches about the Economics of the Food System and Marketing Decisions. He has spoken often before professional and lay audiences in the United States, Australia, and many of the Newly Independent States of Europe about issues of agricultural policy, food industry economics, agricultural markets, and trade.

Speaker & Facilitator Biographies

Doug Goodlander, "Nutrient Management Legislation - Will it Impact Manufacture Soils?" Director of Nutrient Management, Pennsylvania State Conservation Commission, 2301 N. Cameron St., Harrisburg, PA 17110-9408. Phone: (717) 705-3895, Fax: (717) 705-3778, E-mail: dgoodlande@state.pa.us

Doug Goodlander graduated in 1982 from The Pennsylvania State University with a Bachelor of Science degree in both Animal BioScience and in Agriculture and Extension Education. In 1998 he began serving as the Director of Nutrient Management at the State Conservation Commission. In this position he oversees the activities of the Nutrient Management Advisory Board, reviews nutrient management plans for the Commission, and administers the various enforcement, financial assistance, education, and technical elements of the program in cooperation with DEP, PDA and Commission staff. He also serves as the State Conservation Commission's liaison with other agencies and organizations developing programs addressing on-farm nutrient management issues in Pennsylvania. Some of the programs of note that he has been involved with as a liaison includes DEP's Concentrated Animal Feeding Operation (CAFO) program, and the USDA Natural Resources Conservation Service's nutrient management planning initiative.

Charles R. Lee, "Dredged Material as an Ingredient for Manufactured Soil," Certified Professional Soil Scientist, CEO and President of Recycled Soil Manufacturing Technology, LLC, 3919 Fisher Ferry Road, Vicksburg, MS 39180. Phone: (601) 638-7836, E-mail: RSMT03@aol.com

Retired, after 30 years, from the US Army Corps of Engineers, Engineer Research and Development Center, Dr. Lee has conducted phyto-engineering research for the Corps of Engineers using plant/soil systems to accomplish engineering objectives as well as research on the fate and effect of contaminants in upland and wetland environments. Recent projects include recycling resource materials such as dredged material, cellulose and biosolids into productive soil materials and products and restoring problem soils such as droughty sandy dike soils, military training soils, Superfund sites (Drake Chemical, Lock Haven, PA and ZCA, Palmerton, PA), Brownfields (Nine Mile Run, Pittsburgh), Abandoned Minelands (Vintondale, PA and Bark Camp, PA) as well as constructing athletic fields, landscaping homes, and constructing wetlands to treat contaminated water. Dr. Lee has established a small business, RSMT, LLC to commercialize the manufacture of soil products from dredged material and other recycled materials.

Chris Moyer, "Recycled Foundry Sand and Crushed Glass: Material Assets for Soil Blending," Executive Vice President, Pennsylvania Foundry Association, 412 One Plymouth Meeting, Plymouth Meeting, PA 19462. Phone: (601) 825-5126, Fax: (610) 825-2097, E-mail: cmoyer@psnw.com

Chris Moyer has been associated with the Pa. Foundry Association since 1980. He was PFA's first director of governmental affairs and has been the association's chief executive officer since 1996. Since 1980, Moyer also has been affiliated with Lewis, Eckert, Robb & Company, a financial and management consulting firm specializing in government relations. Moyer has been a past member of the American Society of Association Executives and the PA Society of Association Executives. He also has served as a volunteer officer and director of Allegheny Recovery Corporation, Foundry Industry Recycling Starts Today (FIRST), Inc. and Process Recovery Corporation. Moyer received his Master of Arts degree in 1974 from the University of Virginia and his baccalaureate degree in 1972 from the Johns Hopkins University. Moyer is a native of southeastern Pennsylvania and resides there with his wife, Barbara. They have a son at Lafayette College, a daughter at Muhlenberg College and a daughter in high school.

John Oyler, "Design and Use of Manufactured Soils at the Palmerton, PA Zinc Superfund Site," Senior Environmental Scientist, Zinc Corporation of America, 900 Delaware Avenue, Palmerton, PA 19462. Phone: (610) 826-8858, Fax: (610) 826-8872, E-mail: joyler@zincorp.com

John is currently a Senior Environmental Scientist with Zinc Corporation of America in Palmerton, PA, and is the Project Manager for the Blue Mountain and Cinder Bank Vegetation Projects. He has been with the Company for 12 years. John conceived, developed and implemented the Ecolam Technology and the Remedial Action for those projects. Prior to coming to ZCA, he was employed by the U.S. Department of Agriculture for over 10 years, working for the Soil Conservation Service and the Forest Service. Some of the positions John has held include Plant Materials Specialist at Morgantown, West Virginia and Manager of Plants Materials Center, Corning, New York, which conducted plant research for the 13 Northeastern States. He was the USDA reclamation specialist that developed and implemented emergency measures following the 1980 eruptions of the Mt. St. Helen's volcano in Washington state. John holds a B.S. in Forestry with a specialization in Forest Ecology from Southern Illinois University.

Robert Rynk, "Compost in Plant Growth Media - Characteristics and Functions," Senior Technical Editor, BioCycle/The JG Press, 419 State Avenue, Emmaus, PA 18049. Phone: (610)967-4135, ext. 27. E-mail: rrynk@jgpress.com.

Bob Rynk has been researching and teaching composting for well over 15 years. Presently he is Senior Technical Editor for BioCycle magazine and Executive Editor of the peer-reviewed journal Compost Science and Utilization. In addition to his regular articles, Bob writes the Q&A column for BioCycle. Prior to joining BioCycle, Bob was a faculty member at the University of Idaho and an extension specialist at the University of Massachusetts. In his work in academia and for BioCycle, he has have authored numerous composting publications and other educational products, including, chapters in the On-Farm Composting Handbook and Compost Utilization in Horticultural Cropping Systems.

Max Schlossberg, "Soil Quality Parameters for Plant Growth Media," Assistant Professor, The Pennsylvania State University, 403 ASI Building, University Park, PA 16802. Phone: (814) 863-1015, E-mail: mjs38@psu.edu

Max is an assistant professor of turfgrass nutrition and soil fertility at Penn State University. Max's doctoral work examined the utilization of coal combustion by-products for turfgrass culture. Current projects include evaluation of cultural practices for accelerated

Speaker & Facilitator Biographies

treatment of acid soil complex, characterization of organic and inorganic soil amendment of turfgrass root zones, and development of soil sampling, analysis, and interpretation protocol on the basis of site and management-specific parameters. Future research directions include soil hydrophobicity causes, identification, and remediation, and transport modeling of nutrients in natural and constructed turfgrass soil systems.

Barry Scheetz, “Chemistry and Mineral of Coal Fly Ash: Basis for Soil Use” & “Soil Quality for Structural Applications,” Professor of Material, Civil, and Nuclear Engineering, Materials Research Institute at The Pennsylvania State University, 0107 Materials Res. Lab, University Park, PA 16802. Phone: (814)865-3539, E-mail: se6@psu.edu

Barry E. Scheetz, Professor of Materials, Civil and Nuclear Engineering, has been a faculty member at the Materials Research Laboratory within the Materials Research Institute of The Pennsylvania State University for 28 years. During this time, Professor Scheetz has focused his research on a variety of environmental issues concerning waste disposal and the utilization/reutilization of industrial waste materials, so-call "cast-off materials". The emphasis of his research in these applications areas has been on cementitious systems. Recent programs have been utilizing fly ash and alkaline waste activators to fabricate non-traditional alkali-activated cements for large volume use in environmental restoration of minelands. This program is field oriented and has place in excess of 10,000,000 tons of grout in the past ten years.

Rick Stehouwer, “Contaminants, Pollutants, and Environmental Risk: How do they apply to Manufactured Soils?” Associate Professor of Environmental Soil Science, The Pennsylvania State University, 116 ASI Building, University Park, PA 16802. Phone: (814) 863-7640, Fax: (814) 863-7043, E-mail: rcs15@psu.edu

Dr. Stehouwer has been on the Crop and Soil Sciences faculty at Penn State University since 1997, and is the state extension specialist in environmental soil science. His extension program covers soil based recycling of municipal, industrial, and agricultural by-products, compost production and utilization, manufactured topsoil, mine reclamation, and remediation of contaminated soils and brownfields. Rick maintains an active research program to support his extension efforts. Present and recent research projects include: use of spent foundry sand as a component of manufactured soils, use of biosolids incinerator ash as a component of manufactured topsoil, and use of composted poultry manure in mine reclamation. Rick received his B.S. in Biology and German from Calvin College in 1977, his M.S. in Agronomy from Cornell University in 1981, and his Ph.D. in Soil Science from Ohio State in 1990.

David Strong, Round Table Moderator, Chairman of Citizens Advisory, CAC, P. O. Box 162, Brockway, PA 15824, Phone: (814) 371-6142, E-mail: dstrong@clearnet.net

David Strong is an Environmental Scientist currently conducting research n compost, manufactured soils, and sustainable agriculture at Sweet Soil, a 276 acre facility in Western Pennsylvania. Dave was past President of the PA Compost Association and up until 1997 President and CEO of Brockway Analytical, an Environmental consulting company. He holds numerous volunteer positions including, a seat on the Mine Reclamation Advisory Board, the Citizens Advisory Council, the Environmental Quality Board and co-chairs the Mine Pool Task Force.

Khatija Swaroop, “Major Shift - Clean Fill/Regulated Fill,” Solid Waste Program Specialist, Pennsylvania Department of Environmental Protection, P.O. Box 162, Harrisburg, PA 17105. Phone: (717) 787-7382, Fax: (717) 787-1904, E-mail: kswaroop@state.pa.us

Khatija is a Solid Waste Program Specialist in the DEP's Bureau of Land Recycling and Waste Management. She works on both the municipal and residual waste programs and crafted the compost general permit. Khatija received her B.S. and M.S. in Chemistry from Bombay University in India and has completed graduate coursework in the Environmental Pollution Control program at the Pennsylvania State University.

Jody Tishmack, “Manufacturing Soils for Turf Applications: The Purdue SoilerMaker Program,” Administrative Supervisor & Lecturer, Purdue University, West Lafayette, IN 47907. Phone: (765) 496-3718, E-mail: jktishmack@purdue.edu

Jody Tishmack currently manages the Purdue SoilerMaker Program using waste materials for gravel pit development. She also teaches composting and organics recycling in the Department of Agricultural and Biological Engineering. Her research interests include: coal combustion by-product utilization, fly ash mineralogy, hydration behavior, cement and concrete applications, engineered fills, agricultural applications, and environmental impact. She has worked in waste management research for more than 16 years. She received her BS and MS degrees from North Dakota State University and her PhD from Purdue University. Her background is in geo-environmental science and engineering. Jody lives with her husband and two children in Lafayette, Indiana.

William Toffey, “Biosolids Are Fun!” Philadelphia Water Dept., 4th Floor, ARAMARK Tower, 1101 Market Street, Philadelphia, PA 19107, Phone: (215) 685-6248, E-mail: william.toffey@phila.gov

Bill is the Biosolids Utilization Manager for the City of Philadelphia Water Department. His responsibility is to handle the disposition of 200,000 tons of material produced annually at the Biosolids Recycling Center, the centralized facility for handling the byproducts of a regional wastewater system serving 2.3 million people. He has been with the Water Department for sixteen years of the 23 years of Philadelphia's biosolids recycling, and in that time has overseen the use of more than 2 million tons of biosolids products for park improvements, agricultural fertilization, and land reclamation. He oversees the Water Department's research initiatives in odor and pathogen control, and is coordinating its participation as a demonstration agency with the Environmental Management System for Biosolids of the National Biosolids Partnership.

2003 Manufactured Soils Conference

Matching Recycled Materials with Customer Needs

State College, PA

Wednesday, November 12, 2003

Registration & Welcome

- 8:30 a.m. 9:00 a.m. **Registration and Continental Breakfast** Toftrees Conference Center Lobby
Welcome Bag Sponsor: Direct Access International, Lake Park FL
- 9:00 a.m. 9:05 a.m. **Welcoming Remarks** Ballroom A
Welcome: John Frederick Executive Director, Professional Recyclers of Pennsylvania
- 9:05 a.m. 9:30 a.m. **Keynote Address**
Speaker: Dan Desmond Deputy Secretary for Energy and Technology Development
Pennsylvania Department of Environmental Protection

Survey of Materials

- 9:30 a.m. 10:00 a.m. **Spent Mushroom Substrate: Its Uses and Composition**
Spent mushroom substrate (SMS) is the soil-like material remaining after a crop of mushrooms. Spent substrate is high in organic matter making it desirable for use as a soil amendment or soil conditioner. SMS can be used for landscaping, turf applications, potting mixtures, mulch for many crops and plants and in general is an excellent source of organic matter for all soils.
Speaker: Dave Beyer Associate Professor/Mushroom Extension Specialist
- 10:00 a.m. 10:30 a.m. **Recycled Foundry Sand and Crushed Glass: Material Assets for Soil Blending**
Recycled foundry sand and crushed glass can be valuable materials in soil blending. Both materials have been shown to be feasible replacements for a portion of the natural sand that is used to manufacture soil. However, both must overcome logistical and regulatory hurdles before they can become viable feedstock in soil manufacturing
Speaker: Chris Moyer Executive Vice President, PA Foundry Association
- 10:30 a.m. 11:00 a.m. **Break & Exhibits** Ballrooms B & C
Sponsor: Pennsylvania Department of Environmental Protection
- 11:00 a.m. 11:30 a.m. **Manure: Monkey Wrench or Missing Link?**
Manure continues to be the focal point of new federal regulations (CAFO) aimed at curbing the agricultural impact on surface and groundwater across the nation. We must aggressively pursue alternatives to traditional manure application so that a variety of sustainable solutions are easily transferable throughout the region.
Speaker: Bill Achor Environmental Coordinator, Wenger's Feed Mill, Inc.
- 11:30 p.m. 12:00 noon **Biosolids Are Fun**
Ubiquitous and often controversial, biosolids challenges confront communities, large and small, throughout Pennsylvania. Philadelphia's Biosolids Manager, Bill Toffey recently told the Philadelphia Inquirer that, "Biosolids are fun!" and will tell us why as we look at the challenges and rewards of producing safe and valuable manufactured soils utilizing biosolids.
Speaker: Bill Toffey Biosolids Manager, City of Philadelphia
- 12:00 noon 12:30 p.m. **Compost in Plant Growth Media: Characteristics and Functions**
Compost is the soil-like product derived from the decomposition, or "composting," of organic materials. Rich in organic matter, it retains most of the nutrients of the starting material, or "feedstocks", and is extremely valuable as a component of soil and potting media.
Speaker: Rob Rynk Senior Technical Editor/BioCycle Magazine
Executive Editor/Compost Science and Utilization
- 12:30 p.m. 1:30 p.m. **Lunch** Le Papillon
Sponsor: Laurel Valley Soils, Avondale, PA

Markets and Economics

- 1:30 p.m. 2:00 p.m. **Transportation of Artificial Soils Materials**
Transportation of artificial soils materials involves a variety of materials. Some special handling is often required. Laws vary by state. The rates tend to be \$1.25 per mile a working rate for regional hauls and somewhere around \$50 per hour for local hauls. Depending on what is being hauled and how far this can amount to up to \$35 per ton. Rates vary by tolls, special equipment, and whether pollution coverage is required on insurance
Speaker: James Dunn Professor of Agricultural Economics, Penn State University
- 2:00 p.m. 2:30 p.m. **Chemistry and Mineral of Coal Fly Ash: Basis for Soil Use**
Fly ash derived from the combustion coal represents a burden to the economy of the Commonwealth because of its sheer volume; approximately 17 million tons annually. On a national basis, the bulk of this ash is currently not utilized and ends up occupying valuable landfill space. The chemistry and the mineralogical composition of the ash are the two principal drivers in the utilization of this class of materials, the knowledge of which will greatly contribute to responsible reuse of ash. One such application for the utilization of this resource is in the manufacture of and amendment to soils.
Speaker: Barry Scheetz Professor of Material, Civil, & Nuclear Engineering
Penn State University
- 2:30 p.m. 3:00 p.m. **Dredged Material as an Ingredient for Manufactured Soil**
Dredged material is derived from soil erosion and deposition in streams, rivers and harbors. Dredged material can consist of sand, silt and clay in amounts that reflect the soil types in the watershed. It is important to know what the quality of dredged material is before attempting to beneficially use it for manufacturing soil. The USACE has developed a technical framework for evaluating dredged material for beneficial uses.
Speaker: Dick Lee CEO/President, Recycled Soil Manufacturing Technology
- 3:00 p.m. 3:30 p.m. **Feasibility & Economics of Recycled vs Native Soils**
In landscape architecture, the design and site use should dictate the soil requirements. Most often it is the economics of the project that finally determine the soil material. Cost over-runs in the construction phase commonly cause the savings hatchet to fall on the landscape budget, with the soils taking the brunt. The consulting soil scientist needs to be at the design stage of the project to determine the soil requirements for the design concept.
Speakers: Tim Craul Professional Soil Scientist
- 3:30 p.m. 4:00 p.m. **Nutrient Management Legislation- Will it Impact Manufacture Soils?**
Pennsylvania's Nutrient Management requirements direct farmers to only apply as much manure to their crop fields as the crops can utilize. As Pennsylvania becomes home to more high intensity animal operations, and as state and federal regulations become more stringent on the use of manure produced on these sites, these animal operations are challenged to find new and innovative processes, practices, and markets to appropriately utilize the manure they produce.
Speaker: Doug Goodlander Director of Nutrient Management
PA State Conservation Commission
- 4:00 p.m.. 5:30 p.m. **Reception with the Exhibitors**
Sponsor: Carmeuse Natural Chemicals, Pittsburgh, PA

Thursday, November 13, 2003

End Product Quality

- 8:00 a.m. 8:30 a.m. **Continental Breakfast**
- 8:30 a.m. 9:00 a.m. **Soil Quality Parameters for Plant Growth Media**
One of many definitions of soil quality is the degree to which a stable medium fosters plant growth under suboptimal environmental and/or cultural conditions. Unfortunately, any effort to identify specific physical and chemical soil properties to suit every plant, environment, and degree of use is futile, because soil-plant-environment systems are extraordinarily complex. However, the physical and chemical properties of soil which most highly influence plant growth are well understood and have been identified.
Speaker: Max Schlossberg Assistant Professor/Penn State University

- 9:00 a.m. 9:30 a.m. **Soil Quality for Structural Applications**
 Of all of the mechanical soil properties that are measured, texture as it relates to porosity and the soils ability to retain and carry water most closely relates the structural stability of importance to reclamation. When evaluating structural materials for reclamation, the DEP focus primarily upon compaction [bulk density] and permeability. When industrial by-products are used as bulking agents in manufactured soils for structural fills, specific attention must be given to the application.
 Speaker: Barry Scheetz Professor of Material, Civil, & Nuclear Engineering
 Penn State University
- 9:30 a.m. 9:55 a.m. **Contaminants/Pollutants and Environmental Risks**
 How we define and understand the terms "pollutant and pollution or contaminant and contamination" has an important bearing on how we perceive and assess environmental risk. In this talk we will look at some varied definitions of those terms, how they are understood by the regulatory community in the US, and at how that understanding has influenced how formal environmental risk assessment is conducted.
 Speaker: Rick Stehouwer Associate Professor of Environmental Soil Science
 Pennsylvania State University
- 9:55 a.m. 10:20 a.m. **Major Shift - Clean fill/Regulated Fill**
 Prior to the production and distribution of manufactured soils, there are a number of waste related regulatory issues that need to be evaluated. These include making a determination whether any of the ingredients qualify as a waste material, and what type of waste permits are necessary prior to processing and distribution of the final product.
 Speaker: Khatija Swaroop Solid Waste Program Specialist
 Pennsylvania Department of Environmental Protection
- 10:20 a.m. 10:45 a.m. **Break & Exhibit Visits** **Ballroom B & C**
 Sponsor: Pennsylvania Department of Transportation

Reports from the Field

- 10:45 a.m. 11:15 a.m. **Manufacturing Soils for Turf Applications: The Purdue SoilMaker Program**
 In 1995 Purdue Physical Facilities Department received a grant from the Indiana Department of Commerce to develop a process to manufactured topsoil from waste materials. This operation, SoilerMaker, is run by personnel in the Physical Facilities Grounds Department, which utilizes yard waste, animal bedding, and industrial biosolids as feedstock for composting.
 Speaker: Jody Tishmack Agricultural & Bio Engineering Department
 Purdue University
- 11:15 a.m. 11:45 a.m. **Design & Use of Manufactured Soils at the Palmerton, PA Zinc Superfund Site**
 The Palmerton site was the former home of a zinc smelting facility that emitted large amounts of particulate metals and SO₂ for over 80 years, defoliating the surrounding area. The selected remedy was to perform an in-site stabilization of the metals-contaminated soil and cinders if a technique could be developed to revegetate the site. The full-scale projects will be included in the discussion.
 Speaker: John Oyler Senior Environmental Scientist, Zinc Corp. of America
- 11:45 a.m. 12:15 p.m. **Stabilizing Roadway Subgrade with Lime and Coal Ash By-Products**
 Pennsylvania has many soils high in clay and silt content that when wet, have poor engineering characteristics and can lead to poor long-term pavement performance. PennDot is currently stabilizing the top one-foot of highway subgrade on its pilot projects using both quicklime and fly ash or lime kiln dust. Data will be presented on strength gain of soils that have been treated with lime and fly ash.
 Speaker: Chris Cepko Co-Chair/Pavement Quality Improvement Task Force
- 12:15 p.m. 1:15 p.m. **Lunch** **Le Papillon**
 Sponsor: Wenger Feed Mills, Rheems, PA
- 1:15 p.m. 3:00 p.m. **Round Table Discussion: What it Takes to Get a General Permit**
 Question and answer session on the permitting process, requirements, and issues surrounding the obtainment of general permits will be fielded by several DEP staff and permittees.
 Moderator: David Strong

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State Agency Sponsors



Department of Environmental Protection



The Pennsylvania Department of Environmental Protection coordinates a number of initiatives and administers grant programs for composting and recycling activities throughout the Commonwealth and supports PROP's Professional Certification Program for recycling, composting, and solid waste professionals.

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Harrisburg, PA 17105-8472

www.dep.state.pa.us

The Pennsylvania Department of Transportation and their consulting engineer, Apex Environmental, have undertaken a number of environmental, recycling, and composting related initiatives intended to increase the use of recycled materials and manufactured soils in highway construction and maintenance.

PennDOT
Keystone Building
400 North Street
Harrisburg, PA 17120

Apex Environmental
269 Great Valley Parkway
Malvern, PA 19355

www.dot.state.pa.us

Take the Right Steps to Improve Your Composting Operation!

The Professional Recyclers of Pennsylvania (PROP) continues its award-winning Professional Certification Program, offering a variety of recycling and composting professional development courses throughout the state. The program provides educational training that promotes the establishment of high professional standards for recycling and solid waste managers in both the public and private sector.

2003-2004 Pennsylvania Recycling Professional Composting Related Certification Classes

COURSE	DATE	LOCATION
Business Planning for Waste Professionals	Dec. 9	HACC
Recycling Program Evaluation	Feb. 11	Centre County SWA
Management and Leadership Skills	Feb. 25	Centre County SWA
Green Procurement Videoconference	Mar. 17	Various Downlink Sites
Recycling, the Law, and Public Policy	Apr. 1-2	HACC
Animal Rendering / Composting	May 4	Millersville University
Special Materials Collection	May 6	HACC
Public Communications & Relations II	May 18	Villanova University
Recycling Practice & Theory	June 8-9	University of Pitt at Johnstown
Composting: The Practical Science	June 23-24	PSU - New Kensington
Home Composting Program Promotion	Sept. 9	PSU - Hazleton

The Professional Certification Program is offered by PROP in cooperation with Penn State Altoona and the Pennsylvania Department of Environmental Protection.

**Take the steps necessary to improve your
recycling and composting operation!**

To be placed on PROP's Certification Program mailing list or for more information visit the PROP website at www.proprecycles.org or contact the PROP office at 1-800-769-PROP or by e-mail at certification@proprecycles.org.

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