

**SUNDAY  
MAY 5, 2002**

17:00 – 21:00 REGISTRATION

18:00 – 20:00 WELCOME RECEPTION

08:30 – 09:40  
Plenary Session

**MONDAY MAY 6, 2002**

07:00 – 08:30 REGISTRATION AND CONTINENTAL BREAKFAST

Welcoming Remarks  
**Robert Moser, Dean, OSU College  
of Food, Agricultural and  
Environmental Sciences**

Four Decades Of Composting  
Research – Building A Foundation  
For Organics Recycling  
**Jerome Goldstein, BioCycle Magazine**

Role Of Composting  
In Environmental Health  
And Soil Management  
**Harry Hoitink, The Ohio State Univ.**

Tracks	1. COMPOSTING PROCESS	2. COMPOST QUALITY & UTILIZATION	3. ENVIRONMENTAL ISSUES
10:20 – 12:00 Concurrent Sessions	<p><b>Process Kinetics And Modeling</b></p> <p>Understanding Biocomplexity In Composting <b>Larry Walker, Cornell Univ., USA</b></p> <p>A Deductive Composting Kinetic Model <b>Bert Hamelers, Wageningen Univ., The Netherlands</b></p> <p>Principles Of Composting Process Optimization <b>Harold Keener, The Ohio State Univ., USA</b></p> <p>Effects Of Kinetic Parameters On Managing Composting Systems With Air Recirculation <b>Kamil Ekinci, The Ohio State Univ., USA</b></p>	<p><b>Analytical Methods</b></p> <p>Solid-State <sup>13</sup>C-NMR Studies Of Composting Of Industrial/Municipal Solid Waste <b>Yona Chen, The Hebrew Univ. of Jerusalem, Israel</b></p> <p>Evaluation Of Compost Maturation And Quality Using Near Infrared Spectroscopy <b>Edward Johansson, Bedminster AB, Sweden</b></p> <p>Inoculum Standardization And Storage Effects Profiles Of Compost Samples <b>Claudio Mondini, Experimental Institute for Plant Nutrition, Italy</b></p> <p>Compost Quality Assessment And Process Control by Infrared-Spectroscopy <b>Ena Smidt, Univ. of Ag Sciences, Austria</b></p>	<p><b>Air Emissions</b></p> <p>Public And Worker Health: Pathogens, Bioaerosols And Odors <b>Eliot Epstein, Tetra Tech, Inc., USA</b></p> <p>Effect Of Carbon Availability On Greenhouse Gases Emissions And Nitrogen Conservation During High Rate Composting. <b>Gladis Lemus, Univ. of British Columbia, Canada</b></p> <p>Ammonia Emissions And Pathogen Inactivation During Composting <b>Angela Cronje, Silsoe Research Institute, Befordshire, UK</b></p> <p>Biofiltration For Ammonia Gas From Dairy Manure Composting <b>Jihyung Hong, Sunchon National Univ., S. Korea</b></p>
12:00 – 14:15	POSTER PRESENTATIONS		
14:15 – 16:00 Concurrent Sessions	<p><b>Analytical Methods</b></p> <p>Testing Methods For Composting And Compost (TMECC) <b>Wayne Thompson, U.S. Composting Council, Research &amp; Education Foundation, USA</b></p> <p>Enzymatic Activities During Composting Of Vegetable Wastes <b>A. Cristina Cunha Queda, Instituto Superior de Agronomia, Portugal</b></p> <p>Evaluation Of Aerobic Composting Processes By High Performance Liquid Chromatography <b>Stefano Grego, Univ. Della Tuscia, Italy</b></p> <p>Quantification Of The Turnover Of Biomacromolecules During Composting <b>Adrie Veeken, Wageningen Univ., The Netherlands</b></p>	<p><b>Compost Quality</b></p> <p>Compost Quality: An Italian Approach <b>Fabrizio Adani, Universti degli Studi di Milano, Italy</b></p> <p>Analysis Of Sampling Conditions, Test Variability And Quality Of Composts <b>Jean Bonhotal, Cornell Waste Management Institute, USA</b></p> <p>California Compost Quality Council Maturity Index <b>Matthew Cotton, California Compost Quality Council, USA</b></p> <p>Grappling With Compost Quality Down Under <b>Kevin G. Wilkinson, Agriculture Victoria, Australia</b></p>	<p><b>Odor Management</b></p> <p>Understanding Water Dynamics In A Biofilter Containing Composted Biosolids <b>Raymond Regan, Pennsylvania State Univ., USA</b></p> <p>Influence Of Forced Air And Moisture On Composting Odors <b>David Beyer, Pennsylvania State Univ., USA</b></p> <p>Volatile Organic Compounds Emissions During Composting Of Biosolids <b>Sandra Estevez, Univ. of Los Andes, Colombia.</b></p> <p>Alternative Strategy To Reduce Odor Nuisances From Biowaste Composting <b>Henrik Lystad, Jordforsk Norwegian Centre for Soil and Environmental Research, Norway</b></p>
16:40 – 18:20 Concurrent Sessions	<p><b>Microbial Ecology</b></p> <p>Influence Of Process Management And Microbial Community Structure On Biological Control Agents in Compost <b>Jean Vanderghyest, Univ. of California, Davis, USA</b></p> <p>Community Profiling Of Fungi And Bacteria In An In-Vessel Composter For The NASA Advanced Life Support Program <b>Michael Roberts, Dynamac Corporation, Kennedy Space Center, USA</b></p> <p>Microbiological And Chemical Characterization During Composting <b>Marcia Rocha, Universidade de Madeira, Portugal</b></p> <p>Systematic &amp; Functional Characteriz. Of Fungal Biodiversity In Compost &amp; Vermicompost <b>Giovanna Varese, Univ. of Turin, Italy</b></p>	<p><b>Nutrient Dynamics — Compost</b></p> <p>Proper Use Of Compost Avoids Soil Nitrogen Overload <b>Heribert Insam, Univ. of Innsbruck, Austria</b></p> <p>Nitrogen Dynamics In A Rice Ecosystem Fertilized With <sup>15</sup>N-Labeled Composts <b>Luo Liangguo, National Agriculture Research Center, Japan</b></p> <p>Role Of Composting In Reducing Soluble P In Manures <b>Lawrence J. Sikora, USDA-ARS, Beltsville, Maryland, USA</b></p> <p>Interactions Of Mushroom Compost And S, On P In Soil <b>Ali Reza Guiti, IDRC-Tehran Univ., Iran</b></p>	<p><b>Plastics: Challenges And Solutions</b></p> <p>MSW Composting: Comminution Of Nondegradables Into Humus-Plastic Aggregates <b>William Brinton, Woods End Research Laboratory, USA</b></p> <p>Testing the Biodegradability Of Polymeric Materials <b>George Savage, CalRecovery, Inc., USA</b></p> <p>Biodegradable Packaging Distribution And Composting – Results From A Model Project In Kassel, Germany <b>Steven Mojo, Biodegradable Plastics Institute</b></p> <p>Biopolymers In Biological Solid Waste Treatment <b>Luc de Baere, Organic Waste Systems, Belgium</b></p>
18:20 – 20:00	RECEPTION		

07:00 – 08:00 REGISTRATION AND CONTINENTAL BREAKFAST

Tracks	1. COMPOSTING PROCESS	2. COMPOST QUALITY & UTILIZATION	3. ENVIRONMENTAL ISSUES
08:00 – 09:40 Concurrent Sessions	<p><b>Feedstock Porosity And Structure</b> Determination Of Free Air Space And Bulk Density Of Compost Mixtures <b>Joy Agnew, Univ. of Alberta, Canada</b></p> <p>Effect Of Free Air Space On Process Performance <b>Daryl McCartney, Univ. of Manitoba, Canada</b></p> <p>How Bed Structure Impacts Decomposition <b>Dale Rudrum, Wageningen Univ., The Netherlands</b></p>	<p><b>Microbial Ecology II</b> Nucleic Acid Techniques To Characterize Microbial Communities In Composting <b>Christoph Tebbe, Federal Research Center For Agriculture, Germany</b></p> <p>Impact Of Compost And Manure Amendments On Bacterial Populations In Crops <b>Brian McSpadden-Gardener, Ohio State Univ., USA</b></p> <p>Effect Of Compost Amendment On Microbial Community In Soil, Rhizosphere and Roots <b>Dror Minz, Volcani Research Center, Israel</b></p>	<p><b>Bioremediation And Degradation Of Xenobiotics/Pesticides</b> Herbicide Contamination Of Compost At Or Below Practical Analytical Detection Levels <b>David Bezdecke, Washington State Univ., USA</b></p> <p>Herbicide Persistence In Finished Compost <b>Eric Burkhart, Pennsylvania State Univ., USA</b></p> <p>Evaluation Of Bench-Scale Compost Treatment System For Hazardous Waste <b>John Glaser, U.S. Environ. Protection Agency, USA</b></p> <p>Degradation Of Organic Contaminants In Sewage Sludge During Windrow Composting <b>Henrik Lystad, Jordforsk Centre For Soil And Environmental Research, Norway</b></p>
10:20 – 12:00 Concurrent Sessions	<p><b>Process Management &amp; Engineering</b> Moisture Relationships In Composting <b>Tom Richard, Iowa State Univ., USA</b></p> <p>Effects Of Turning Frequency And Mixture Composition On Process Conditions On Odor Concentrations <b>Stuart Buckner, Town of Islip, New York, USA</b></p> <p>Factors Leading To Spontaneous Combustion In Yard Wastes <b>Richard Buggeln, The Univ. of Tennessee, USA</b></p>	<p><b>Disease Suppression</b> Soil Organic Matter And Plant Disease Suppression In Field Agricultural Systems <b>Alexandra Stone, Oregon State Univ., USA</b></p> <p>Effects Of Compost Extract On Disease Suppression And Plant Growth <b>Moussa Beavogui, INCO-RTD/DNRST, Guinea</b></p> <p>Compost-Induced Disease Suppression And Growth Enhancement In Vegetable Crops. <b>Sally Miller, The Ohio State Univ., USA</b></p> <p>Evaluation Of Composted Agricultural Wastes As Alternatives For Methyl Bromide <b>M. Isabel Trillas, Universitat de Barcelona, Spain</b></p>	<p><b>Heavy Metals</b> Use Of Tailor-Made Fe and Mn Rich Composted Biosolids Or Manure To Remediate Metal Contaminated Soils <b>Rufus Chaney, USDA-ARS-Animal Manure and Byproducts Lab, USA</b></p> <p>Implications Of Biosolids/Compost Utilization On The Risk Of Soils Metals <b>James Ryan, US Environmental Protection Agency</b></p> <p>Role Of Compost In The Overall Introduction Process For Heavy Metals Into Soils <b>Martin Kranert, Univ. of Applied Sciences, Braunschweig, Germany</b></p>
12:00 – 14:15	POSTER PRESENTATIONS		
14:15 – 16:00 Concurrent Sessions	<p><b>Nutrient Dynamics</b> Dynamics Of C And N In Sludge Composting <b>Celine Druilhe, Livestock and Municipal Wastes Management, Cemagref, France</b></p> <p>Investigating N Management In Composting <b>Ina Korner, Technical Univ. of Hamburg-Harburg, Germany</b></p> <p>P Dynamics During Composting Of Beef Cattle Feedlot Manure. <b>Francis Larney, Agriculture and Agri-Food Canada, Canada</b></p> <p>N And P Dynamics In Cocomposted Yard Debris And Broiler Litter <b>Lewis Carr, Univ. Of Maryland, USA</b></p>	<p><b>Disease Suppression II</b> Suppressive Effects On Soil Borne Diseases From Yard Waste Composts <b>Christian Bruns, Univ. of Kassel, Germany</b></p> <p>Disease Suppression And Microbial Communities Of Potting Mixes Amended With Biowaste Compost <b>Wim Blok, Wageningen Univ., The Netherlands</b></p> <p>Compost-Induced Suppression Of Turfgrass Diseases <b>Eric Nelson, Cornell Univ., USA</b></p> <p>Effects Of Compost Tea On Golf Courses <b>Christa Conforti, The Presidio Trust, San Francisco, USA</b></p>	<p><b>Manure Composting Developments</b> Changes In Concentrations Of Malodorous Compounds During Composting Of Fresh And Aged Dairy Manure <b>Dave Elwell, The Ohio State Univ, USA</b></p> <p>Effects Of Dairy Manure Amendments On Composting Process Kinetics <b>John Pecchia, The Ohio State Univ., USA</b></p> <p>Biodrying Dairy Manure <b>Peter Wright, Cornell Univ., USA</b></p> <p>Organic Matter And N Conservation In Cow Manure Composting For Organic Agriculture <b>Michael Raviv, Newe Ya'ar Research Center, Israel</b></p>
16:40 – 18:20 Concurrent Sessions	<p><b>Composting Infrastructure</b> Production And Marketing Of Compost At A Turkish Facility <b>Lewis Naylor, Black &amp; Veatch, USA</b></p> <p>Partnership For Effective Compost Utilization <b>Gana Pati Ojha, Sustainable Soil Management Program, Nepal</b></p> <p>Development Of Rapid, Contained Composting To Manage MSW In The Philippines <b>Virginia Cuevas, Institute of Biological Sciences, The Philippines</b></p>	<p><b>Compost Maturity Characterization</b> Sequential Composting To Determine Compost Maturity Levels <b>Kimberly Moore, Univ. of Florida, USA</b></p> <p>Maturity And Stability Evaluation Of Composted Yard Trimmings <b>Dan M. Sullivan, Oregon State Univ., USA</b></p> <p>Suitability Of The Solvita Maturity Test For The Assessment Of Stability/Maturity Of Composted Manures <b>C. M. Changa, Ohio State Univ., USA</b></p>	<p><b>Environmental Applications</b> Compost Utilization For Reforestation Of Degraded Sites <b>Michael Cody, Compost Technology Centre, Olds College, Canada</b></p> <p>Water Quality Of Runoff From Composts And Mulches Under Simulated Rainfall <b>Mark Risse, Univ. of Georgia, USA</b></p> <p>Movement Of Foreign Matter In MSW Compost Amended Soil <b>Natasha Page, Univ. of Alberta, Canada</b></p>

20:30 – 22:00  
Evening  
Roundtable  
Session

## How Composters Use Research Findings To Improve Operations

An informal session discusses how compost project managers are implementing the results of scientific research in such areas as aeration, turning frequency, maturity and utilization. A panel will include compost operators and researchers.

07:00 – 08:00 REGISTRATION AND CONTINENTAL BREAKFAST

Tracks	1. COMPOSTING PROCESS	2. COMPOST QUALITY & UTILIZATION	3. ENVIRONMENTAL ISSUES
08:00 – 09:40 Concurrent Sessions	<p><b>Composting Applications In Landfills And Bioremediation</b> How Composting Can Optimize Landfilling <b>Peter Lechner, BOKU-Univ. of Vienna, Austria</b></p> <p>Biological Stabilization Of Old Landfills Using In-Situ Aeration – Lab And Field Scale <b>Ina Koerner, Technical Univ. of Hamburg-Harburg, Germany</b></p> <p>Unique Composting Partnering Arrangement <b>Mary Mulford, Rumpke of Ohio, USA</b></p> <p>Bioremediation Of Copper – Effect Of Lime And Composts On Microbial Populations, Crop Yields <b>Ognian Stoianov Kostov, Soil Science Institute, Sofia, Bulgaria</b></p>	<p><b>Compost Utilization I</b> Using Compost And Cover Crops To Reduce Fertilizer Requirements <b>Abigail Maynard, Connecticut Agricultural Experiment Station, USA</b></p> <p>Long-Term Vegetable Production Experiment: Plant Growth And Soil Fertility Comparisons Between Fertilizer And Compost <b>Phil Warman, Nova Scotia Agricultural College, Canada</b></p> <p>Growth, Yield, Nutrient Status Of Field Grown Tea In Compost Amended Soils <b>Keerthi Mohotti, Tea Research Institute, Sri Lanka</b></p> <p>Agronomic And Environmental Effects Of Compost, Manure And Fertilizer Use <b>Gregory Evanylo, Virginia Tech Univ., USA</b></p>	<p><b>Bioaerosols</b> Systematic Analysis Of Bioaerosols From Composting Facilities <b>Peter Kaempfer, Univ. Giessen, Germany</b></p> <p>Airborne Fungi In Compost Plants: A Neglected Environmental And Health Hazard <b>Giovanna Varese, Univ. of Turin, Italy</b></p> <p>Monitoring The Release Of Bioaerosols From Composting Facilities In The United Kingdom: Interpretation, Modelling And Appraisal Of Mitigation Measures <b>E. Jane Gilbert, The Composting Association, UK</b></p> <p>Aspergillus Fumigatus Control At Composting Plants Through Use Of Biofilters <b>Miguel Sanchez-Monedero, Univ. Leeds, UK</b></p>
10:00 – 11:40 Concurrent Sessions	<p><b>Novel Composting Techniques &amp; Feedstocks</b> Pulp And Paper Industry By-Products Composting: Process Development And Implementation <b>K.C. Das, The Univ. of Georgia, USA</b></p> <p>Effects Of Pulp And Paper Sludge Composts On Soil Microbiology And Lignin Degradation <b>Pirjo-Riitta Rantala, Pirkanmaa Regional Environment Centre, Finland</b></p> <p>Quality Of The Compost After Codisposal Of Solid Waste Of The Tanning Industry <b>Shiva Prasad, Federal Univ. of Para-ba, Brazil</b></p> <p>Economic Potentials Of Oil Palm Bunch Refuse <b>Napoleon Aisueni, Nigerian Institute For Oil Palm Research, Nigeria</b></p>	<p><b>Compost Utilization II</b> Performance Of Various Composts And Compost Blends To Produce Bedding Plants <b>John Bouwkamp, Univ. of Maryland, USA</b></p> <p>Potential Of Using Composts In Tropical Ornamental Foliage Plant Production <b>Jianjun Chen, Univ. of Florida, USA</b></p> <p>Biosolids And Compost Evaluation As Rooting Substrate In A Crop In Bogota <b>Eugenio Giraldo, Univ. of Los Andes, Colombia</b></p> <p>The Effect Of Addition Of Composted Green Waste To Peat On The Physical Stability Of Growing Media <b>Muno Prasad, Bord na Mona Research Centre, Ireland</b></p> <p>Worm Castings: An Alternative To Peat Moss In Organic Tomato Transplant Production <b>Monica Ozores-Hampton, Univ. of Florida, USA</b></p>	<p><b>Pathogens: Risks And Regulations</b> Hygienic Aspects Of Composting Biowastes: Legal Situation and Actual Experiences In Germany <b>Reinhard Bohm, Univ. of Hohenheim, Germany</b></p> <p>Quantifying Phytohygienic Risks Of Compost Application In Agriculture <b>Aad Termorshuizen, Wageningen Univ., The Netherlands</b></p> <p>Strategies For Evaluating The Sanitary Quality of Composting <b>Morten Carlsbaek, SOLUM AS, Denmark</b></p>
13:00 – 14:40 Concurrent Sessions	<p><b>Composting BioWaste</b> State Of The Art Treatment Of Source Separated Organics In The European Union <b>Luis Diaz, CalRecovery, Inc., USA</b></p> <p>Composting Municipal Biowaste: Influence Of Temperature And Oxygen <b>Karla Monnig, Universitat Weimar, Germany</b></p> <p>Characterization Of Separately Collected Biowaste To Stabilize Biological Treatment <b>Eckhard Kraft, Bauhaus-Univ. Weimar, Germany</b></p>	<p><b>Effect Of Compost On Soil Quality</b> Impacts Of Mulches On Soil Organic Matter, Microbial Activity, Nutrient Availability, Plant Growth And Plant Pests <b>Daniel Herms, The Ohio State Univ., USA</b></p> <p>Recycling Organics — The Building Block Of Carbon Based Horticulture <b>Bob Paulin, Department of Agriculture, Western Australia</b></p> <p>Compost Utilization And Fate Of Heavy Metals And Organic Contaminants In Vegetable Production <b>Aziz Shiralipour, Center for Natural Resources, Univ. of Florida, USA</b></p> <p>Role Of Labile Soil Organic Matter And Soil Microbial Biomass In N Cycling Processes Across Range Of Soil Conditions And Management History <b>Ben Stinner, Ohio State Univ., USA</b></p>	<p><b>Fate Of Pathogens In Specific Feedstocks</b> Pathogen Regrowth In Compost Teas And Transfer To Vegetables <b>Brian Duffy, US Department of Agriculture, Agricultural Research Service, USA</b></p> <p>E. Coli Survival In Compost Tea Using Different Nutrient Substrates <b>Vicki Bess, BBC Laboratories, Inc., USA</b></p> <p>Reduction Of Fecal Streptococci During Small-Scale Composting Of Horse Manure <b>Uta Krogmann, Rutgers Univ., USA</b></p> <p>Composting Sheep Offal In An Aerated Bunker System <b>Donna Chaw, Olds College, Canada</b></p>
15:00 – 16:00 Closing Plenary	<p>Emerging Infectious Disease Agents Associated With Organic Wastes <b>Patricia Millner, USDA ARS, Beltsville, USA</b></p>	<p>Prion Decontamination: A Discussion Of The State Of The Art <b>Strinand Sreevatsan, The Ohio State Univ., USA</b></p>	<p>Research Review: How The Composting Process Influences Global Climate Change <b>Catherine Zeman, Univ. Of Northern Iowa, USA</b></p>