



It is our hope that this meeting will provide new ideas, links and discussions that will lead to changes that incorporate bio-products into our choice of products for vehicle management and turf/landscape management.

A \$10.00 registration fee will cover lunch and refreshments. Please contact Courtney McKeal to register for the conference at:

(717) 787-3568 or [cmckeal@state.pa.us](mailto:cmckeal@state.pa.us)

Also, please make the check out to *PSCE Program Funds* and send it to:

PA Dept of Agriculture  
Bureau of Plant Industry  
2301 N. Cameron St.  
Harrisburg, PA 17110  
Attention: Courtney McKeal

Registration and checks received should be done no later than October 5, 2005.

Thank you.

David Bingaman  
Chief of Conservation and Agricultural Technology Division

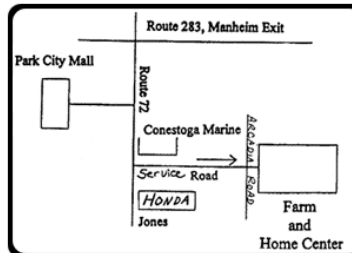
### Directions to Farm & Home Center:

1383 Arcadia Road, Lancaster, PA 17601



**West of Lancaster**  
Rt 30 East to Rt 72 (1st Exit Past Park city)  
Turn right at ramp stop sign. Turn left between Conestoga Marine and Jones Honda dealership.

**East Of Lancaster**  
Rt 30 West to Rt 283 W to Rt. 72. Turn left on Rt. 72 going South under the Rt. 30 bypass. Turn left between Conestoga Marine and Jones Honda dealership.

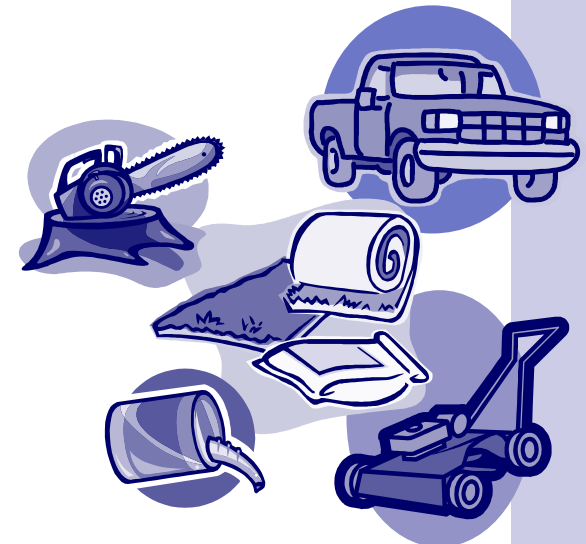


The Pennsylvania Department of Agriculture  
2301 North Cameron Street  
Harrisburg, PA 17110

## Using Bioproducts in Vehicle and Landscape Maintenance Workshop

October 13, 2005

Lancaster Farm & Home Center



# Using Bioproducts in Vehicle and Landscape Maintenance

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Using bioproducts in natural landscape settings and in vehicle and machine maintenance settings incorporates bio-based products that are environmentally friendly, and often degrade naturally while fulfilling their function. Biofilters and erosion and sedimentation buffers produced from plant-derived products are often preferable to synthetic fibers because they degrade naturally and eliminate the need for subsequent removal. Biosolvents and biolubricants maintain the integrity of machinery components without the noxious fumes and contaminants common to the traditional synthetic products. Product life cycles of biofungicides and other biocontrols often create savings over time by eliminating periodic maintenance. These and other bio-product options will be explored by the workshop speakers.

## Agenda

9:00 AM	Registration / Welcome	Landscape - Use of bio-based fertilizers for turf and ornamental plantings David Maddocks - Rep. Fertrell Chemical Co. - Bainbridge, PA
9:20 AM	Program overview and Introduction David Bingaman - PDA	
9:30 AM	What are bio-products? (BMA definition) Federal Bio-based Preferred Provider Program Joe Sherrick - PA DEP	1:30 PM Vehicle - parts replacement using bio-products
10:00 AM	Chemistry of biolubricants and hydraulic oils Dr. Joe Perez - Energy Institute, PSU	Landscape - Biobased insect pest control alternatives as a spray material or granular form Dr. Albert Pye - Biologic, Inc.
10:30 AM	Overview of bio-product choices Lubricating oils                      Fertilizers Bar & Chain oil                      Bio-pesticides Hydraulic fluid                      Biofilters Engine oil & Grease                      Erosion and Sediment control  Bill Garmier - Renewable Lubrication, Inc.	2:00 PM Vehicle - Bio-products for vehicle cleansers, carpets, waxes and detailing alternatives to conventional products.
	Vehicle - Mechanics for car and truck fleet managers Use of Bio oils for engine oil and lubrication. Jackie Garmier - Renewable Lubrication, Inc.	Landscape - Biocontrols using natural predators (bug vs. bug) using microbes to control plant pathogens. Dr. David Dowds - USDA ARS ERRC
	Landscape - The use of biofungicides on flowers and ornamental plants Mark Furnham	2:30 PM Break
11:30 AM	Vehicle - Building a vehicle service operation on bio-products. Bill Garmier - Renewable Lubrication, Inc.	3:00 PM Vehicle - Next generation bioproducts. Where is current research leading the industry? USDA - ARS
	Landscape - Building a grounds maintenance program based upon bioproducts. (Landscape maintenance use of biobased products for lawn maintenance of equipment and as alternatives for pest management and plant nutrition; Bar and chain oil for use in chainsaws and the use of bio-based hydraulic oil to protect the environment.) Are the biobased products just as good? Glenn Cauffman - Farm Operations Manager, PSU	Landscape - Plant Pests - Bio-rational decisions to replace synthetic chemicals. How will cooperative extension provide the outreach education needed to promote biobased pesticides or continue to promote synthetic pesticides? Dr. Mary Barbercheck, PSU Extension Entomologist
12:00 PM	Lunch	3:30 PM General Session Panel Discussion Can Bio-products effectively replace synthetically produced products? USDA ARS, bio-pest control Mary Barbercheck - PSU Dr. David Dowds - USDA ARS ERRC Jackie Garmier - Renewable Lubrication, Inc. Glenn Cauffman - PSU Joe Perry Fertrell Fortize Rep. <b>TBT</b>
1:00 PM	Vehicle - Bio-products as penetrating oils, part cleaners and servicing products.	4:00 PM Adjourn.