

Ohio Pedologist

President's Message

Dear AOP members,

Just as we gave thanks Memorial Day weekend to the veterans and others that sacrificed themselves for our country, I think we also should be thankful for those AOP members and soil scientists who came before us. We realize every day that many of those we work with now may be retiring very soon. We can be proud and thankful of our heritage. I hope we all can be together in Lancaster September 11th to celebrate our 25th anniversary.

I hope that 25 years from now, I can be the wise old guy who tells the new hires such things as "It's got some stick to it", "It's just a guide", and "That must be a '97, because of the square headlights."

I guess that as we get older, we all get more in tune with what's happening, and the changes that occur. The change I perceive more noticeably each year is the changing of the seasons. Also, it gives me one more thing I can get mad about. It's not bad enough that you have to dedicate a lot of time and energy to football in the fall, while there's still yard work to do, but you start running out of daylight at the same time.

I imagine we all will be going through a lot of change in the next few years. I think as an organization, we will also, due in part to the number of members that will be eligible for retirement.

In this newsletter, we ask your opinion about changing the name of our association. We also announce activities for this summer, and talk about our new web site.

We're planning for our summer picnic Saturday, August 10th at Hocking Hills State Park. The naturalists will guide us through Conkle's Hollow.

Over Memorial Day weekend, I got my kids in shape for hiking through Hocking Hills. We

were visiting my parents in Ironton, and I asked the kids if they wanted to go to the river. Much to my surprise, they only grudgingly agreed to go. But when we got there Saturday after dinner, they quickly realized that, once

again, Daddy was right. They liked climbing and sliding down the bank to get down to the water. They enjoyed picking up stuff that the water washes up. And they liked the waves created by the barges and boats. We brought some stuff back to Findlay - a basketball with only a slight leak; a broken surfboard; lots of china fragments; and a plastic tiger that the kids gave to my dad. We left 5 or 6 sandals, a syringe, and a football on the river bank. I was excited also - I haven't done field work for a while, so I was ready for a good trash pile. We went back Sunday afternoon. Just because the kids wanted to go, of course.

We're also holding a training session on on-site investigation for septic systems. To be held in Mansfield July 19th.

Also coming up: Soil Scientists' Workshop September 10-12; AOP 25th anniversary barbecue September 11th; Division of Lands and Soil 50th anniversary September 12; Ohio fracture flow working group field day September 27 and 28. Also, Ohio will host the Forest Soils Workshop October 15-17.

And don't forget to send in your applications for certification! A list of certified members appears elsewhere in this newsletter.

See you at Hocking Hills. Be there to pick up your free stuff.

BE ALL THAT YOU CAN BE IN THE AOP!



The Prez

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Flier

2002 Directory of Officers

Jeff Glanville, President

Dan Lemaster, President-elect

Frank Gibbs, Past President

Kathy Sasowsky, Secretary

George Derringer, Treasurer

Steve Miller, Newsletter editor

Tom Zimmerman, Academic Rep.

Jon Reedstrom, Federal Rep.

Bill Brug, Private Rep.

Steve Prebonick, State Rep.

Association News

Calendar of Events

July 19th, Friday—On-site Investigation Training for Septic Systems, Mansfield, Ohio
July 29th, Monday—ODNRs Soils Program 50th Anniversary Celebration—Cincinnati
August 10th, Saturday—The AOP Summer Picnic, Hocking Hills
September 10th-12th—Soil Scientists Workshop, Lancaster, Ohio
September 11th, Wednesday—AOP 25th Anniversary Celebration—Lancaster, Ohio
September 12th, Thursday—ODNRs Soils Program 50th Anniversary Celebration—Cincinnati
September 27th or 28th, Friday or Saturday—Ohio Fracture Flow Working Group—Wooster, Ohio
October 15th-17th—Forest Soils Workshop—Northwest

Check Out AOP on the World Wide Web at

[Http://www3.uakron.edu/geology/aop/](http://www3.uakron.edu/geology/aop/)

Directory Update

AOP will be making the Directory of Soil Scientists available on the website. If you do not want your home information listed or if there is incorrect information in the directory please contact Steve Miller at steven.miller@dnr.state.oh.us or (614) 265-6932

Our sympathies go out to the family of Dr. Nick Hallowaychuk, who passed away on April 16, 2002 at a hospital in Edmonton, Alberta, CAN, at the age of 94. He had fallen earlier which may have precipitated increasing lung congestion which worsened until his quiet departure. A Memorial Service was held on April 23 in the Chipman, Alberta Greek Orthodox Church where Nick had known and enjoyed the choir at this rural church in recent years.

25th Anniversary Commemorative Pocket Knives

The AOP Executive Council has approved an order of laser engraved pocketknives to commemorate the 25th anniversary of the organization. The knife will have the AOP logo and possibly the text "25 years". The engraving details were not completely worked out as of the newsletter deadline.

To see what the knife looks like go to www.crkt.com, under Product Catalogue find the Mo'Skeeter. The plain edged (not serrated) is ordered.

Some extra knives are ordered. All current AOP members will receive a knife without charge. If you would like more than one, a limited number of additional knives will be available for purchase at \$15.00 apiece.

The knives will be distributed at upcoming AOP functions. There are no plans to mail out shipments to individuals.

If you have questions contact Steve Prebownik.

From the Editor's Desk

The *Ohio Pedologist* is published quarterly. Please have your articles submitted by Sept. 15 and Dec. 1 for timely distribution of the newsletter. Please note:

- 1) The deadline for submitting articles to the newsletter is 2 weeks before issue date.
- 2) The editor reserves the right to condense letters, make routine changes in grammar, and decline articles due to incriminating or offensive content..
- 3) Newsletter items should be brief, legible, and in good taste.
- 4) Articles submitted for publication in the *Ohio Pedologist* should be sent to: Steve Miller, 1974 N. 3 B's and K Rd, Sunbury, OH, FAX (614) 262-2064, or e-mail steven.miller@dnr.state.oh.us



50th Anniversary Events for ODNR's Soils Program

The first of two events scheduled to recognize the activation of ODNR's soils program in 1952 will occur during the Ohio Federation of Soil & Water Conservation Districts' Summer Supervisors School on July 29 in Cincinnati. SWCD Supervisors attending the Awards Luncheon will have placemats currently being designed to describe how and why the Division of Lands & Soil (DLS) was created. The background for the brief text will be a collage of mostly archival photographs. A three-layer dessert, specially designed to resemble a Miamian profile, will be served. NRCS' Soil Survey Division Director Berman Hudson will offer remarks during the luncheon, and ODNR Director Sam Speck is scheduled to attend.

Former DLS Assistant Chief Dick Christman, Bob Ritchie, and Ken Powell are serving on a committee to plan a reunion for DLS alumni and for current and past employees in the current division's Soil Inventory & Evaluation Section on September 12 in Lancaster.

Congratulation to our new AOP Certified Professional Soil Scientists

Bauder, James R.
Brug Jr., William H.
Derringer, George D.
Gerber, Timothy D.
Gibbs, Frank E.
Houser, Todd A.
Jenny, Paul C.
Kelley, Glenn E.
Lemaster, Danny D.
Mapes, D. Rex
McCleary, Floyd E.
Michael, Daniel R.
Milliron, E. Larry
Prebonick, Stephen T.
Roth, Linn E.
Svoboda, James R.
Tornes, Lawrence A.
Weatherington-Rice, Julie P.
Williams, Norris L.
Zimmerman, Tommy L.

Soil Scientists Workshop Scheduled for September 10-12

The Ohio Soil Inventory Board is developing the agenda for its biannual workshop for ODNR, NRCS, and OARDC soil scientists. It will begin at the Fairfield County Agricultural Center just north of Lancaster on the afternoon of September 10 and conclude at noon on the 12th. AOP will be handling registration for the workshop and for an evening event on the 11th.

AOP Board of Certification Report

The Board of Certification met on June 1 and approved the applications of 21 members to become AOP Certified Soil Scientists. The Board also approved AOP's July 19 On-Site Investigation Training for Septic Systems Workshop for 5.0 hours of professional training toward renewal of certification in three years. The Ohio Fracture Flow Working Group Field Day, to be offered on September 27 and again on the 28th, was also approved for 5.0 hours of credit. The Board is planning to develop a brochure later this year to promote the capabilities of certified soil scientists and the value of information they can provide. Please submit pictures that illustrate practices and installations that are appropriate or inappropriate for the soils on which they were sited, **by September 15** to Tim Gerber.

Papers in the Soil Science Society of America's *Soil Survey Horizons*

Neil Martin's article on "Memories of Condit Soil" was published in the Spring 2002 edition of *Soil Survey Horizons*, and an article on the "Origins of ODNR's Soil Survey Program" has been accepted for publication in the Fall 2002 edition. The *Horizons* is intended to be "a medium for the expression of ideas, problems, and philosophies concerning the study of soils in the field." AOP no longer offers a discount for its members to subscribe to the quarterly publication, but information on how to subscribe or purchase single copies can be obtained from the Managing Editor Lisa Al-Amoodi at lalamoodi@agronomy.org. Subscriptions cost \$13 per year, and single copies cost \$4.

SHOULD WE CHANGE THE NAME OF OUR ASSOCIATION?

When I was on executive council about 10 years ago, I brought up the issue of the name of the organization. My concern was that nobody in the public knows what a pedologist is. At the time, we were trying to get the state soil bill passed. My proposal was to change the name of the organization to something like "Ohio Soil Scientists", thinking that the more descriptive name might result in better publicity. I didn't get very far with my idea.

I brought up this issue again at the executive council meeting on March 20th. I think council was more receptive this time. I appreciated the positive response; however, I hope it wasn't just because I'm President. At home, when the kids question something I've told them, if I can't come up with a better answer, I'll say "Because I'm the big daddy." Well, I hope the reason for my proposal being more welcome this time isn't because I'm the big president.

Anyway, this proposal is something that eventually will need to be voted on by the general membership, I think, and I want to see what you all think of this idea.

There's a United States Consortium of Soil Science Associations, recently created, that is a loose organization of state

soil science associations. The Association has a web site, under construction, at <http://soilsassociation.org>. Maybe the most important part of this association right now is the fact that they will have links to the individual state soil science associations (as well as Association of Women Soil Scientists, National Society of Consulting Soil Scientists, etc.)

All but 2 of the soil scientist associations use the term "soil scientist" or "soil classifier". The 2 exceptions are AOP, and New York's association, Empire State Pedologists.

Elsewhere in this newsletter is an article about our web site. (The address is <http://www3.uakron.edu/geology/aop/>. The web site, and the fact that there are ongoing changes to the new sewage rules, gives us a lot of potential for exposure in the near future. I think we need to have a name that reflects what we do, a name that everybody understands.

I would like to propose changing the name of AOP to "Ohio Soil Scientists", or something similar (Association of Ohio Soil Scientists, Ohio Soil Scientists Association, etc.)

This is something that we should put a lot of thought into. And we'll have to put it to a vote of the general membership. For now, we just want your comments. Please contact your academic/federal/private/state representatives with your comments.

The United States Consortium of Soil Science Association

By Jim Culver, Past President of the Nebraska Society of Professional Soil Scientists

During the August 2000 meeting of the Nebraska Society of Professional Soil Scientists, we had a discussion regarding the fact that there are about 44 organizations similar to ours around the country. We realized that there was no common link for the organizations and there was no method for effectively sharing information and communications with the private sector. We reached a general consensus that the individual State societies and associations have excellent potential for working together in several areas.

During the 2000 annual meeting of the Soil Science Society of America, I visited with soil scientists from the Natural Resource Conservation Service, other Federal agencies, the National Association of Consulting Soil Scientists, and the Association of Women Soil Scientists and with leaders from the University National Cooperative Soil Survey. We discussed the opportunity for all of the State soil societies and associations to work together and to have an impact on common issues. Overall, the response was positive for a generalized process that would allow the organizations to share opportunities to promote our profession.

On January 3, 2001, a letter was sent to all State soil societies and associations, the Association of Consulting Soil Scientists, and the Association of Women Soil Scientists. The letter indicated that I would be willing to spend some time exploring options for our individual organizations to work together on common issues. The response to this invitation was very positive. Our first national teleconference was April 25, 2001.

Excellent progress has been made this past year in getting started. Most of the progress has been made through national teleconferences, questionnaires, and special work groups. The progress in-

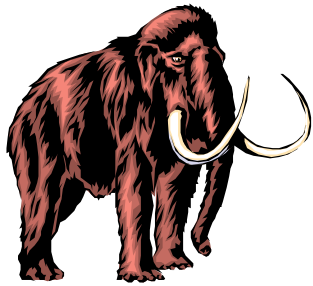
cludes 1) stating goals and objectives, 2) updating directories, 3) gathering e-mail addresses for a contact at each organization, and 4) beginning development of a Web site. The Web site for the United States Consortium of Soil Science Association is at <http://soilsassociation.org>. It includes a list of all of the State soil societies and associations, each organization's official contact, the URL for those organizations who have a Web site, and the goals and objectives of the consortium. We are in the process of posting the minutes of all teleconferences. Other sections on the consortium's site will include "Who We Are," "What's New," "Updated Membership and Addresses," and "Congressional Contacts."

During the past year, the consortium has held 5 teleconferences. The minutes for these conferences have been sent by e-mail to all 44 organizations. Plans for this year include continued work on the Web site, the development of a newsletter, and the production and distribution of an informational brochure that describes the consortium.

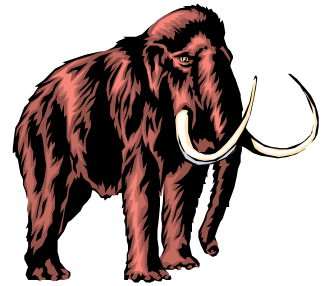
Our goals are to promote communications between the State societies and associations and to promote the visibility of these organizations. Common issues that the organizations share include soil interpretations and the acquisition and application of soil survey data. Highlighted is emphasis on outreach to the general public and elected decision makers. The outreach hopes to promote the wise use of science-based soil survey information for the protection and management of the Nations soil resources.

The consortium's current objectives to assist in collectively working toward the goals are:

- 1) Enhance communications and networking among the societies and associations;
- 2) Outreach to general public and decision makers;
- 3) Technical issues: Policy, applications, operations, and science;
- 4) Listing of available training and workshops;
- 5) Information on potential available contacts for obtaining soil consulting services; and
- 6) Professional recognition.



HARTLEY MASTODON EXCAVATION IN COLUMBIANA COUNTY



By Larry Milliron and Jon Reedstrom

Late last summer, while excavating an area for a pond, a Mastodon skeleton was unearthed. Cheryl Mattevi, a Geologist for Kent State, Salem, was called in to assist with the excavation and collection of the skeletal remains. Last winter, well after the fact, she called the Canton office for some assistance. Larry and I spent part of a day at the site, which was then a pond, looking around trying to get a handle on what things may have been like.

The pond excavation where the mastodon discovery occurred is



located in the northwest part of Columbiana County, section 20 of Butler Township, near Homeworth. The mastodon was dug in a shallow pocket depression in the drainageway of a map unit of Sebring silt loam. In the 1968 published soil survey, one wet spot symbol was printed just to the east of the actual location and one map unit symbol was to the north.



The landscape position is relatively high in the local topography. The location is close to the watershed divides that define watersheds for the Mahoning River and two tributaries to the Mahoning in the headwater area of the Mahoning.

The primary tributary drainage that drains this Sebring delineation originates to the east in a very poorly drained Luray and Marengo silty clay loam map unit. Luray soils are lacustrine in origin and Marengo soils are formed in glacial till. A narrow connecting poorly drained Wayland silt loam map unit (alluvium) is oriented to the south west gradient of the stream that intersects the Sebring unit then arcs south to a larger tributary of the Mahoning.

There were two noticeable landscape 'pinch-points' defining the drainage exits of these three delineations. These steeper sloping soils are B and C slope Canfield and Wooster at the outlet for the Luray and Marengo delineation and B and D slope Chili along the Wayland downstream from the Sebring delineation.

In this application, the wet spot symbols clearly identified a significant contrast in soil materials but they do not convey the correct information by the current definition for the 'wet spot' symbol.

Being that we were invited on-site about nine months after the mastodon was discovered, the aftermath of the excavation and the dug pond was the only material that we had to evaluate. Upon reviewing the site with Cheryl, we surmised that the soil was most likely a thin Carlisle muck about an acre or less in extent. The mineral floor to the muck was dominantly silty lacustrine sediments of unknown thickness but presumably

relatively thin. Many wood fragments, which were originally within the organic sediments, lay exposed on the surface. Cheryl reported that numerous ones were evidently chewed by beaver.

We had a fairly long discussion trying to determine the types of material Cheryl had described on the site. She had done a detailed description of the soil to about 6 or 7 feet at the time of the excavation. We discussed the definitions of diatomaceous earth, coprogenous earth, and marl; those things do not always come across the same and are somewhat open to interpretation. We had no samples to look at, and there were none to sample for chemical analysis, but it was decided that there is a thin layer of marl above the lacustrine sediments. It made sense in the end - goose poop on the pond bottom, eventually covered with organic mate-



rial.

The mastodon was found near the center of the muck and in the thickest accumulation of the organic material. The skeletal arrangements with the head being under some of the ribcage and the tusks pointed somewhat downward led to the speculation that the critter may have slipped in as it walked on ice to water or may have toppled in headfirst when the ice broke underneath it. Also, the specimen was in very good condition except that some of the lower leg bones and feet bones were either missing or showed scratches interpreted as teeth marks. This leads to speculation that the legs were left exposed so that scavengers fed on them and carried off some of the bones. That would be consistent with the thin muck over the mineral floor.

Cheryl showed us some of the other plant and animal relics that she has washed out of the muck materials. Included were fragments of turtle shells, beetle shells, a small rodent jaw with teeth intact, nuts, tamarack seed cones, snail shells etc. It was very interesting to see some of these relics.

Our value to this event would have been greatly enhanced had we been on-site at the time that the initial excavation was being conducted. Our familiarity with the original natural material is the reference upon which we can best contribute. We tried to unscramble the egg.

Hope that they call us in early during the next find.

PALEOGEOGRAPHY OF THE HARTLEY MASTODON SITE

MATTEVI, Cheryl, Geology, Kent State Univ (Salem Campus), Salem, OH 44460-9412, Mattevi@salem.kent.edu and **MUNRO-STASIUK, Mandy**, Geography, Kent State Univ, Kent, OH 44242-0001

The discovery of the Hartley Mastodon presented an excellent opportunity to investigate the paleogeography of the immediate deglacial environment of Columbiana County, Ohio. A lake was partly excavated into a pre-existing 70-meter wide depression interpreted as a kettle hole. It was from this depression that the mastodon was found. The kettle hole is in Lavery till, which was deposited by the Grand River Ice Lobe approximately 16,000 years ago. The till deposits therefore provide a maximum age of 16,000 BP for the specimen. The kettle hole is approximately 14 km behind the paleo-ice margin at its maximum extent in the region. A simple sequence of units was recorded at the site. The units are, from oldest to youngest, a dense gray

clay, massive shelly organic clay, red fibrous peat, and black woody peat. The shelly organic clay layer contains abundant plant fibers, small wood fragments, mollusks, and gastropods. Fauna indicates that a pond or small lake existed, but water was shallow and contained abundant vegetation. The mastodon was found at the contact between this layer and the overlying red fibrous peat. This peat is rich in beaver chewed wood fragments, twigs, sedge, seeds, husks, coleoptera parts, small bones, and conifer cones. All evidence points to the pond shallowing, with vegetation replacing some of the zones of open water. The black woody peat contains coarser material ranging from small twigs to entire stumps, and indicates that the pond was shrinking and trees and shrubs colonized the marginal zones. The contemporary landscape at the site now contains swamp forest, cattail swamp, and some open water.

Description of Carlisle Muck in the Hartley Mastodon "Island" Section

Description of Carlisle Muck in the Hartley Mastodon "Island" Section; August 11 and 12, 2001. Collected and described by Cheryl Mattevi, Kent Salem. The "island" was a remnant of undisturbed material isolated by the construction of a temporary drainageway. The mastodon was excavated about 10 meters from the base of this section. Estimated water level prior to lake excavation disturbance was about 15 cm above "island" surface. All layers moist with standing water below 100 cm. Additional comments courtesy of Jon Reedstrom and Larry Milliron, NRCS, March, 2002.

Depth in centimeters from former ground surface.

- 0-6 cm Discarded. Black muck, recent vegetation and root mats; grass and weeds had sprouted.
- 6-30 cm Black muck, 10 YR 2/1 with patches of 10 YR 3/2. Plant fibers common, usually 1 mm thick by 10 cm long; probably cattail or sedge leaves. Fibers about 20%. Occasional snails
- 30-50 cm Black muck, 10 YR 2/1. Very abundant reddish plant fibers 1 mm wide x 15-20 cm long. Fibers about 30%.
- 50-70 cm Black fibrous peaty muck, N 2.5/1. Fibers 80% or more of volume. Fibers appear thick black and brittle, but are actually red when magnified. Resembles forest leaf humus. Recognizable wood layer at 65-70 cm.
- 70-100 cm "Red" fibrous peaty muck. On first exposure, appears bright red (10 R 2.5/1), darkens to black 10 R 3/3 within seconds of exposure. Dense, moist layer, flexible fibers about 80% of volume. Fibers are yellowish, flexible material (possible sphagnum? Or sedge). Bottom 10 cm finer, separate fibers not distinguishable; large fibers <5%.

Contact between "red" peat and organic marl at 100 cm. Contact appears fairly sharp; mats of the fibrous material can be lifted intact from the lower layer.

100-140 cm Organic muck, (possible Coprogenous Earth or gyttja). Olive brown 2.5 Y 4/3 on first exposure; darkens to 2.5 Y 2.5/1. Seeds and plant fibers common. Fibers are yellowish flat leaves (about 20% of volume). Beaver chewed wood is common. Rare small snails. No apparent bedding. Small twigs (conifer, hemlock) common in places.

Mastodon remains appear to lie at the contact between these two units.

150-140 cm Shelly marl. Organic rich material, olive color (5 Y 3/2) on first exposure, darkens to 5 Y 2.5/1 while still moist, but dries to a light gray (5 Y 6/1). Massive, no bedding. Very abundant whole and fragmental shells (*Sphaerium*, *Helisoma*) Abundant fibers (yellowish, flat leaves) about 10% of volume. Carbonate precipitates form as it dries and the dried material forms a very dense concrete-like solid. pH 7.5 Very soft material, saturated with water, oozes into excavation.

Base not seen in "island" section. On northern side of lake excavation, where a deeper hole was dug, the shelly marl appears to be about 100 cm thick, and is underlain by gray clay. Dense gray silt to plastic clay or marl. Occasional pebbles, rare shells (*Sphaerium*, *Helisoma*). 2.5 Y 5/1 moist; dries lighter.

Bring your favorite "Ol'Man, "Ol'Lady", or "Young' uns" To **THE AOP SUMMER PICNIC** Saturday, August 10th At **SCENIC OLD MAN'S CAVE**

11:00 Registration

Lunch 12:00 (Noon) Sharp at The Old Man's Cave Shelter House
Catered Luncheon available: Ham, Roast Beef, Turkey, Cheeses,
Cole Slaw, Chips, Brownies, Lemonade and Ice Tea
..... **\$5 per person due August 2nd**

Parking available across the road (SR 374) or camp next door at the
beautiful Family Campgrounds!

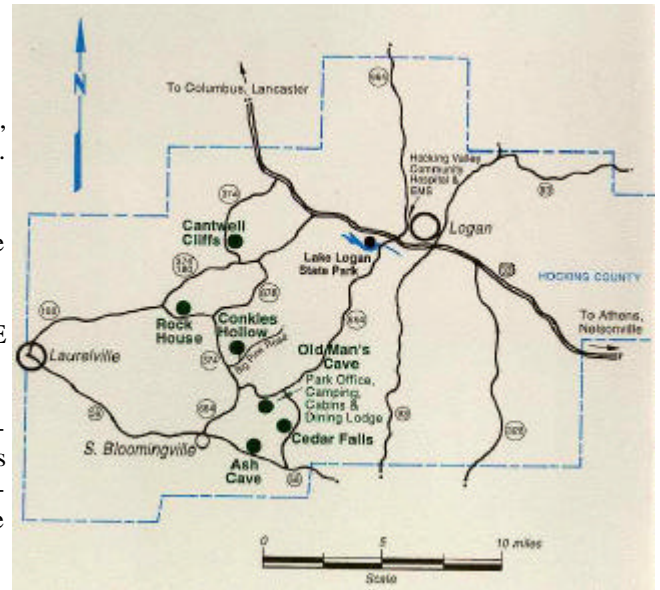
1:00 PROGRAM: AOP SPECIALLY ARRANGED, PRIVATE
GUIDED TOUR OF BEAUTIFUL CONKLES HOLLOW!

Listen to experienced ODNR Naturalists Mark Howes and Jeff Johnson explain and show you the Rare Plant and Animal Communities that Flourish in this Spectacular Gorge filled with waterfalls cascading off the cool Blackhand Sandstone Cliffs that rise 200 feet above you!

Our own Soil Scientist, Gordon Gilmore will explain the soils that these unique communities developed on.

Please send your check if you want Lunch by August 2nd to: AOP Treasurer, George Derringer
819 Sue Lane
Dayton, OH 45415-2134
Memo: Summer Picnic

DON'T MISS OUT ON THIS SPECIAL AOP SUMMER TOUR!



AOP 25th Anniversary Barbecue!!!



AOP will sponsor a barbecue Wednesday, September 11, around 6:00 PM, in honor of AOP's 25th Anniversary at the USDA service center in Lancaster. Our own Dr. Hall has put together a cool display of AOP history and has been asked to give a presentation following the meal. This is in conjunction with the Ohio Soil Scientists' Workshop September 10-12.

Plan to be with us for eating, drinking, and merriment. We will be serving giant pork chops, potato salad, baked beans, and all the fixin's. And soft drinks and a keg of beer. Thanks to Joe Steiger for making the arrangements.

All of our agency soil scientists should be there already, because of the workshop, and we hope all of you other folks can be there as well. ODNR will have a celebration the next day for the 50th anniversary of the Division of Lands and Soil, so why not come a day early and eat with us in Lancaster? And you can pick up the free stuff that you didn't get at the August picnic! Cost of the meal is \$15. A map to the USDA Service Center and a list of nearby motels is enclosed. Send your check to "AOP Treasurer", George Derringer by August 30th and mark "BBQ" at the bottom of the check.

See you there!!!

Ohio Fracture Flow Working Group

Field Day - Northeast Ohio

Organized by the OAS Ohio Fracture Flow Working Group. Sponsored by the Association of Ohio Pedologists, the Ohio Academy of Science, the Soil and Water Conservation Society (All Ohio Chapter), and the Water Management Association of Ohio. In cooperation with The Ohio State University, Ohio Agricultural Research and Development Center, the Agricultural Technical Institute, the Ohio Department of Natural Resources, the US Geological Survey, the USDA Agricultural Research Service and Natural Resources Conservation Service, Bennett & Williams and BAUDER CERTIFIED EARTH SCIENCES.

Ohio Fracture Flow Working Group Annual Field Day - Northeast. Includes discussions about NE Ohio's geology, soils, & macropore structures. Watch agricultural tiles being smoked for macropores and wormholes, dig in rough, fresh-surfaced soils observation pits, study fragipans in a till cut.

When: Two days, same program to allow for more new and old friends to participate and still keep the crowds manageable. Friday, September 27, 2002 and Saturday, September 28, 2002. (Heavy all day rain on Friday? Rain date Saturday.)

Where: Wooster, Ohio. The meeting starts at the ATI Campus in the morning. Field sites are the ATI Apple Valley Farm and the Rupp Gravel Pit.

Why: Share in multidisciplinary research into Ohio's geology, hydrogeology and soils. Try a hands-on experience in preparing observation pits for fracture and water movement studies. Find out what tools work for you. Learn the difference between primary and secondary porosity and how they affect water and contaminant movement in your area. See a fragipan and give us your theory as to how they form. Make new friends and see old ones as you work together and learn from each other. Applying for Continuing Education Credits for Certified Soils Professionals (AOP, ARCPACS) and Registered Sanitarians.

How Much: \$25.00, Registration due by Friday, Sept. 13, 2002

Make Check out to WMAO Field Day and Mail Registration to:

Carol Moody, Administrative Assistant
247 Agricultural Engineering Bldg.
590 Woody Hayes Dr.
The Ohio State University
Columbus, Ohio 43210-1057

Agenda

Room 030 Skou Hall (Bldg. 2 on map), Agricultural Technical Institute

8:30 to 9:00 AM	Registration & Coffee Break
9:00 AM	Welcome and ground rules, Tom Zimmerman, ATI
9:15 AM	Glacial and Bedrock Geology of NE Ohio, Scott Brockman, ODNR
9:45 AM	Soils, their formation processes & fragipans, Frank Calhoun, OSU
10:15 AM	Macropores and field tiles, Martin Shipitalo, ARS
10:30 AM	Leave for ATI Apple Valley Farm
11:00 AM	Smoking field tiles and earthworm round-up, Frank Gibbs, NRCS and Martin Shipitalo, ARS
11:45 AM	Travel to ATI Apple Valley Farm Land Lab for lunch
12:00 PM	Break for box lunch and conversation at Apple Valley Farm
1:00 PM	Travel to geology/soils pits at ATI Apple Valley Farm
1:15 PM	Two pits, hosted by Ralph Haefner, USGS, Scott Brockman & Mike Angle, ODNR, Martin Shipitalo & Norm Fausey, ARS, Ann Christy, Tom Zimmerman & Frank Calhoun, OSU, Julie Weatherington-Rice, B&W, and anyone else who wants to throw in their \$0.02.
3:30 PM	Leave for Rupp Gravel Pit.
4:00 PM	Rupp Gravel Pit with soil fragipan, hosted by Jim Bauder, BAUDER CERTIFIED EARTH SCIENCES, Scott Brockman and Mike Angle, ODNR.
? : ?? PM	Stay here as long as you want, safe trip home.

Ohio Fractured Flow Field Working Group Registration Form

Name

Phone

Address

e-mail

Zip

Employer

Title

Organization

Friday, Sept. 27th

or Saturday, Sept 28th

Special Diet Requirements

Park in the West Parking Lot at the ATI campus (marked on the OSU ATI Campus map. We will car pool to the Apple Valley Farm and to the Rupp Sand and Gravel Pit. Maps to Wooster, the ATI Campus and the Apple Valley Farm are attached. Directions to the Rupp Sand & Gravel Pit will be given at the field day.

Lodging – No rooms in Wooster, it's Parents Weekend at Wooster College.

There are some rooms at the Royal Star Inn, 11980 E. Lincolnway (Rt. 30), Orrville, about 8 miles east of ATI. Phone 1-888-711-8110, Queen sized beds, \$69.00 two beds, \$64.00 one bed, AAA discounts apply. Please make reserva-

Announcing the 2002 AOP Technical Workshop!!

“On-site Investigation Training for Septic Systems”

Friday, July 19th from 9:00 to 3:30

The Richland SWCD/NRCS Conference Room in Mansfield, Ohio
Consistency/Professionalism/Possible New Rules/Certification CEUs

- Listen to some of the top soil professionals in Ohio share their experience of how on-site investigations for septic systems should be conducted.
- Learn what the new trends are for providing the correct information
- Receive sample investigation reports and evaluation forms
- Participate in “hands on training” with lot lay out and profile descriptions in the field
- Find out what the future of soil services holds for Ohio during a panel discussion
- CEUs applicable to AOP (if certified anytime during the 2002 year) and to ARCPACS. Registered Sanitarians Pending

Registration Due: July 10th!!!

Registration fee includes lunch, proceeding, sample reports, evaluations, and the field exercise.

\$25 AOP Members

\$35 non-AOP Members

Send Your Check (made out to “AOP”, Memo: “On-site Workshop”) to:

George Derringer, AOP Treasurer

819 Sue Lane

Dayton, OH 45415-2134

For More information Contact Frank Gibbs 419-422-8347, Ext 139, frank.gibbs@oh.nrcs.usda.gov

9:00-9:30—Registration, Coffee and Donuts

9:30-9:40—Welcome/Introductions/Purpose—Frank Gibbs, Past President of AOP Consistency/Professionalism/Possible new rules/certification CEUs

9:40-10:00—What the client wants and what we as professionals should provide as a minimum—Norris Williams, Consulting Soil Scientist.

10:00-10:20—Limiting layers, depth and types and new Health Department rules—Brian Slater, Asst. Prof. And Ext. Specialist and The Ohio State University

10:20-10:40—The value of an on-site investigation and soil survey information (series variation, inclusion, etc) - Rex Mapes, Consulting Soil Scientist, Mapes Soils Investigations and Retired NRCS Correlator.

10:40-10:50—Break

10:50-11:10—The value of a backhoe pit and the auger (structure, permeability, compaction and soil variability) James Bauder, Bauder Certified Earth Science Inc.—Consultant in pedology, geology, groundwater, wetlands, vegetation, and phase 1 investigations.

11:10-11:30—Sample investigation Reports and Health Dept. forms—Bill Brug, Consulting Soil Scientist, Bauder Certified Earth Science Inc.

11:30-12:15—Lunch (Courtesy of Richland SWCD)

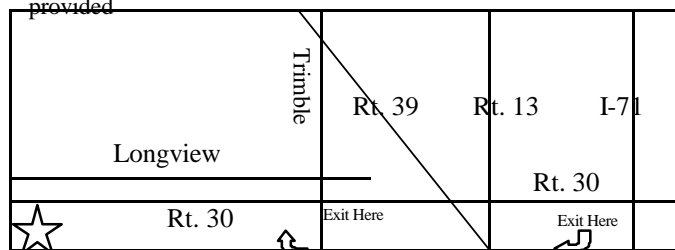
12:30-2:00—Field investigation (Richland Fish and Game Club) Three backhoe pits with lots staked out. Pit masters: Bill Brug, Dan Michaels, and Norris Williams. Sample forms for profile description and limiting layers provided.

2:00-2:30—Pit by pit summary of limiting layers and lot limitations: eg. Blocking neighbors drainage, slope, etc.

2:30-3:20—Panel discussion: The Future of Soil Services in Ohio (new rules and needs) and the Pricing of Soil Services—James Bauder, Rex Mapes, Dan Michael, Neil Rubel and Joe Steiger

3:20-3:30—Closing Remarks/Adjourn—Frank Gibbs

Binder with speakers synopsis/sample reports/evaluation forms provided



SWCD/NRCS Center is located at 1495 Longview Center, on south side of Longview Ave. Phone (419) 747-8686 for directions.

22nd Annual Central States Forest Soils

October 15th—17th, 2002

Toledo, Ohio Area

Toledo, Ohio Area

Ohio is the proud host of the 22nd Annual
Central States Forest Soils Workshop

Tentative program includes:

- Maumee State Forest
- Tour of Sauder Wood Products
- Sandy glacial outwash
- Discussions on forest-soil relationships
- Goll Woods Nature Preserve
- Ridgeville Corners Wastewater Plantings
- Windbreaks
- Greentree Marsh



Hosted by:

USDA-Natural Resources Conservation Service
Ohio Department of Natural Resources
Division of Forestry
Division of Soil and Water Conservation
The Ohio State University
Ohio Society of American Foresters

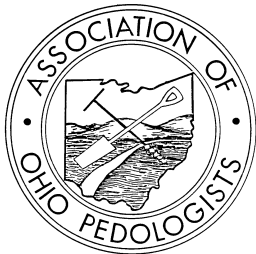
For more information please contact Frank Gibbs, USDA-NRCS, 7868 County Road 140, Suite F, Findlay, OH 45840-1898, (419)422-8347, frank.gibbs@oh.

**Registration form and a detailed agenda will be
distributed July, 2002 and will be available at
www.ohioSAF.org**

AOP 25th Anniversary Barbecue!!!

Ohio Pedologist

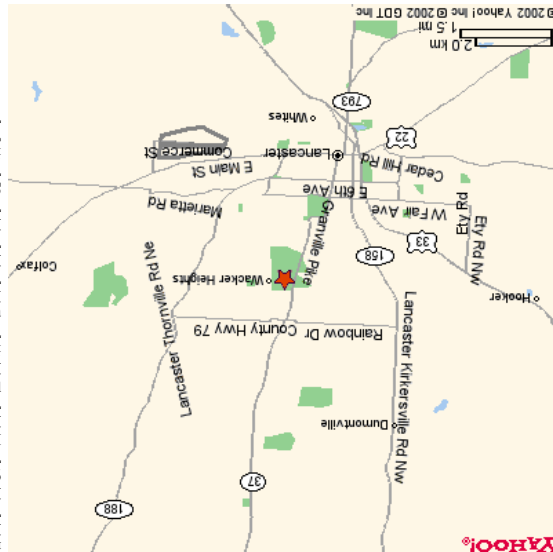
The Ohio State University
School of Natural Resources
Columbus, OH 43210



Mailing label

When: Wednesday September 11, 6:00PM
Where: USDA Service Center, Lancaster
See enclosed article for more information

Location:
831 College Ave.
Lancaster, OH
43130.
The star marks
the spot.



AmeriHost Inn, 1721 River Valley Circle N., Lancaster 43130; 740-654-5111
The hotel features 60 sleeping rooms, indoor pool and whirlpool with 2 meeting rooms.
Best Western Inn 1858 N. Memorial Dr., Lancaster 43130; 740-653-3040
The hotel features 167 sleeping rooms, five meeting/banquet rooms, restaurant/lounge and an outdoor pool.
Casa Grande Motel, 2479 E. Main St., Lancaster 43130; 740-687-0611
The motel features 16 sleeping rooms.
Hampton Inn - Lancaster 2041 Schorway Dr., Lancaster 43130; 740-654-2999
The hotel features whirlpools, indoor pool, exercise room, roadrunner enabled rooms and meeting room. Meeting room that can hold up to 40 people.
Hampton Inn - Pickerington 1890 Windery Lane, Pickerington 43147; 614-864-8383
The hotel features 51 sleeping rooms, exercise room with whirlpool and cable TV.
Hawthorn Suites, Ltd. - 1899 Windery Lane, Pickerington 43147; 614-860-9604, Fax 614-864-9002, E-mail hawthornptc@msn.com
The hotel features 69 rooms with indoor pool, exercise room (see link for additional amenities)
Meeting facilities - 3 rooms; largest capacity: 45; food and beverage catering available.
Holiday Inn Express - 1861 Riverway Drive, Lancaster, Ohio 740-654-4445
The hotel has 63 sleeping rooms, plus jacuzzi rooms and 15 suites, an indoor pool and continental breakfast.
Holiday Inn Express - Pickerington I-70 and SR 256 (13300 Reynoldsburg-Baltimore Rd) Pickerington, Ohio 43147 (614) 575-9900
The hotel features 65 sleeping rooms, plus jacuzzi suites, indoor pool, fitness center, and complimentary continental breakfast.
Knights Inn 1327 River Valley Blvd., Lancaster 43130; Phone & Fax: 740-687-4823
The hotel features 60 sleeping rooms, kitchenettes and one meeting room.
Lancaster Motel 533 S. Columbus St., Lancaster 43130; 740-653-5706
The motel features 36 sleeping rooms.
Lenox Inn I-70 & St. Rt. 256 Reynoldsburg 43068; 614-861-7800, 1-800-821-0007
The Inn feature 152 rooms, 5,000 square feet of meeting/banquet space.
Shaws Restaurant & Inn 123 N. Broad St., Lancaster 43130; 740-653-5522
The Inn features 20 sleeping rooms, 6 banquet/meeting rooms - maximum capacity of 200 for meetings and banquets, in room whirlpools and restaurant/lounge.
Town Motel 1215 E. Main St., Lancaster 43130; 740-654-9225
The motel features 12 sleeping rooms, efficiencies available weekly/monthly, and cable TV.