

Ohio Pedologist

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

President's Message

I can't remember a busier time in the past 31 years in soils work. It seems like everyone is pulled and stretched in all directions to the breaking point just about every day. The only good thing I can find in this is that time passes very quickly when you're this busy. Of course it really hurts me to be getting closer to retirement at an ever increasing pace.

Let's all take a break from the rat-race on July 26th at the annual AOP Picnic at Beaver Creek State Park in eastern Ohio. The Executive Council voted to continue Jeff's policy of providing "free stuff" by catering the lunch with-out charge. Another article in this issue of the newsletter will discuss the activities that are available on Ohio's east side.

I would like to commend the Certification Board on the work they are doing to clarify and further define the criteria used to determine the number of CEU's each of our training activities will offer. This will help us plan well in advance for maintaining our certification.

More information about the future soils exhibit at the Smithsonian Institution is filtering in. I will have informational brochures about this for you at the picnic. The exhibitors would like to have a monolith of all 50 state soils as part of the display, but they

also want several thousand dollars to help defray the costs of developing the exhibit. The exhibit doesn't open until 2006, so we have some time to raise money for this.

I would like to close with a quote from Chief Seattle, from a letter written to President Franklin Pierce in 1854;

"This we know: the Earth does not belong to Man, Man belongs to the Earth.

This we know: All things are connected, like the blood that unites one family.

All things are connected.

Whatever befalls the Earth, befalls the Sons of the Earth.

Man did not weave the web of life, he is merely a strand in it.

Whatever he does to the web, he does to himself."

I hope to see you at the picnic, so we can all take a break together!

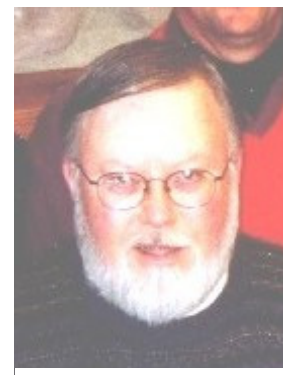
Be Safe.
Dan Lemaster
President

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President Lemaster

2002 Directory of Officers

Dan Lemaster, President
Steve Prebonick, President-elect
Jeff Glanville, Past President
Kathy Sasowsky, Secretary
George Derringer, Treasurer
Steve Miller, Newsletter editor
Frank Calhoun, Academic Rep.
Gordon Gilmore, Federal Rep.
Todd Houser, Private Rep.
Steve Hamilton, State Rep.

Association News

Directory Update

During the next few months the AOP directory and consultant list will be updated to reflect the new membership. Any of the old members who wish to update their biography should send the information on to Steve Miller (steven.miller@dnr.state.oh.us or 1974 N. 3 Bs & K Rd., Sunbury, OH 43074). A sample biography is listed below. We will also be posting this information on the website so please indicate what information you don't want advertised over the internet. Thanks.

Pedalfert, Sandy Clay—Pedologist
Available as a soil consultant

B.S. Agronomy, Ohio State University 1903; M.S. Soil Science, Oxford University 1906.

1903-06 Rhodes Scholar, Oxford University
1906-25 Implemented dust bowl practices with a brief tour of Europe from during 1917 and 18, Dusty Inc.
1925-41 Reversed previous practiced implemented, ICCP.
1941-43 Toured Europe, Japan, and northern Africa, U.S. Army

Retired 1903 to present

AOP—Certified Soil Scientist
ARCPACS—Certified Professional Soil Scientist

Events

July 26, 2003—AOP Summer Picnic
September 5, 2003—Fractured Workshop

Congratulations New Members

Kathryn Blanchard, Student
Edwin Dieringer, Affiliate

Jim Bauder is preparing to travel to Iceland this July and is requesting any information our membership may have about places of interest.

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

Soil genesis, classification and morphology at OSU

Brian Slater and Frank Calhoun taught Soil Science 550 during the Spring Quarter while Neil Smeck was mastering the bolero on a Fulbright fellowship in the Pampas of Argentina. A highlight for the students and instructors was spending a rainy, cool Saturday with Ed (Doc) Redmond exploring the glaciated-nonglaciated boundary in Knox and Holmes counties. Doc mesmerized us all with the pursuit of the elusive Illinoian till, fragipans, Ultisols with mesic soil temperature regimes, mica dominated siltstone residuum, colluvial soils, and the only coated Quartzipsamment this side of the East Coast of the USA. Earlier field trips were conducted in northwestern and southern Ohio.

SS550 is an important feeder course for the collegiate soil-judging contest. This contest is instrumental in generating the soils majors that we need to supply the future needs of ODNR, NRCS and the private sector. Invariably, the best part of this course for the students has been the field trips. The willingness of our colleagues such as Dan Lemaster, Rick Robbins and Doc Redmond to sacrifice a Saturday is an important contribution to the future of Soil Science and maintaining the heritage of the Soil Survey.



Doc Redmond (center) and Brian Slater (red jacket) with the Soil Science 550 class in the Mohican State Forest (photo by Frank Calhoun)

Dan Lemaster, Rick Robbins and Doc Redmond to sacrifice a Saturday is an important contribution to the future of Soil Science and maintaining the heritage of the Soil Survey.

Smithsonian Soils Exhibit: Soils Sustain Life

Soil is the reservoir on which most life on Earth depends as the primary source of food and fiber. Soil plays a vital role in sustaining human welfare and assuring future agricultural productivity and environmental stability. The study of soil as a science has provided us with a basic understanding of the physical, chemical, and biological properties and processes essential to such a complex ecosystem. The Soil Science Society of America (SSSA) is working with the Smithsonian Institution to plan a soils exhibit as part of their Global Links Gallery at the National Museum of Natural History. The museum, located in Washington, DC, charges no admission fee to view their exhibits.



The exhibit will include a display of state soil monoliths and an educational, interactive section to help the museum's 6–9 million visitors understand how soil is intricately linked to the health of humanity, the environment and the planet. Related publications and web activities will reach millions of additional people. Never before have we had such an opportunity to advance the understanding of soil. This work will move forward our journey to sustain Earth and its people by educating visitors to the Smithsonian on the importance of soil and Earth sciences.

Timeline

- 2001—Members see the need to include soils as part of the Earth Sciences exhibit at the Smithsonian. Gary Petersen, Pennsylvania, asks SSSA Executive Committee to consider leading this project.
- 2002—SSSA, NRCS, Department of Interior, USDA Forest Service Research and the Smithsonian met in Washington, DC, to have the first major design and fund raising meetings for the exhibit. The Smithsonian Soils Exhibit project is formally announced to membership at the November Annual Meetings.
- 2003—The fund-raising campaign is initiated to fund the Smithsonian Soils Exhibit with a target goal set at \$3 million.
- 2004—Final exhibit design and fund raising will be the focus of the Smithsonian Soils Exhibit project. The exhibit will strive to link together many aspects of soil science and society in order to demonstrate the importance of soil to our world.
- 2005—Outreach educational materials will be developed for educators, librarians and the public. These related publications and Web activities have the potential to reach millions of people.
- 2006—If fund raising is successful, the exhibit is slated to open in 2006 prior to the Philadelphia meeting of the International Union of Soil Scientists.
- 2010—Smithsonian Soils Exhibit will be loaned to other museums around the United States and be available on SSSA & Smithsonian Web sites.

AOP Summer Picnic

Mark your calendars for the annual AOP picnic to be held on July 26, 2003 at Beaver Creek State Park in beautiful Columbiana County. The park features a working gristmill, a living history museum, hiking trails, bridle paths, and an abundance of natural beauty. The phone number for the park is 1-330-385-3091.

The picnic will be sponsored by the AOP. An accurate head count will be needed by June 30, 2003. Please contact George Derringer if you plan to attend. Lunch will be catered with the feasting to begin around noon at the shelter near the gristmill. The meal will feature a deli buffet with sandwich fixings, coleslaw, fresh vegetables, potato salad, chips, desert, and beverages.

We know how frugal soil scientists can be so the Association has given a little incentive to attend.....Lunch is on us!

Meet at the Gristmill at 10:30AM under the coniferous tree on the map to the right.

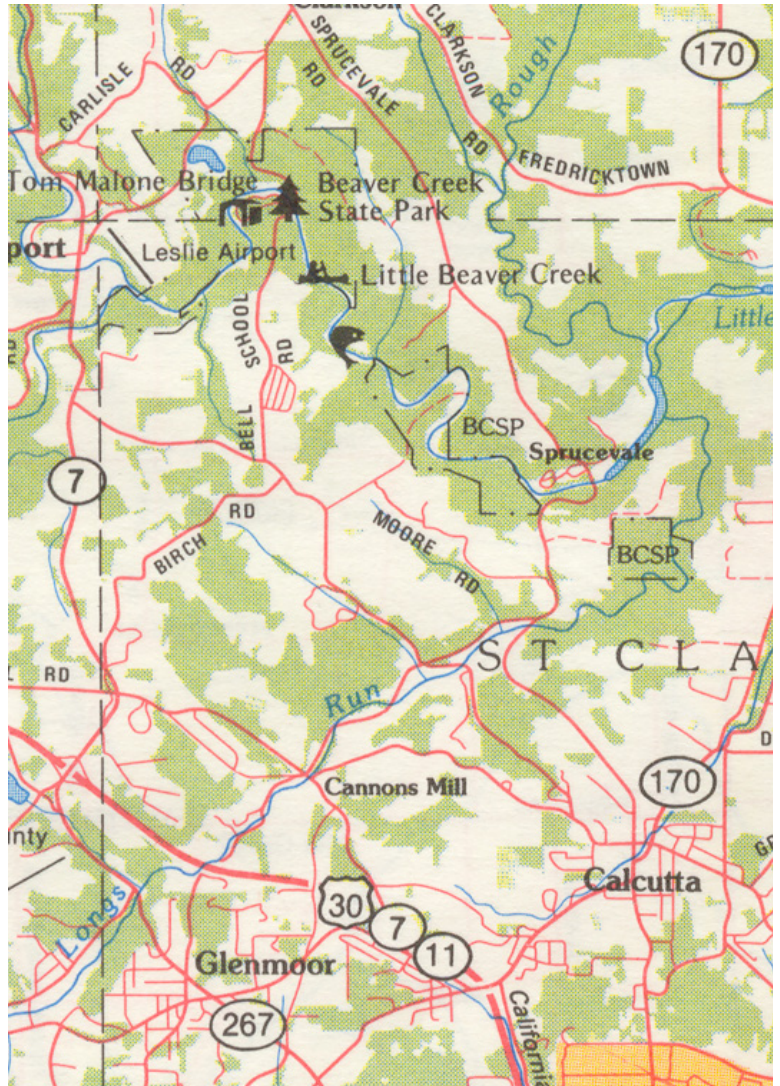
10:30 Gather

11:00 Tour of Nature Center

12:00 Lunch

After or before lunch there will be time to visit the gristmill, hiking trails, canal paths, Letonia Coke Ovens, Museum of Ceramics, and more.

Hope to see y'all there!



AOP Summer Picnic Registration Form—Beaver Creek State Park

Member Name _____

Please mail form to:

Number of adults attending _____

George Derringer
AOP Treasurer
819 Sue Lane
Dayton, OH 45415-2134

Number of children attending _____

Due June 30th, 2003

Fracture Flow Workshop

2003 Ohio Fracture Flow Working Group Field Day & Fundraiser - Northeast Ohio

Who: Organized by the Ohio Academy of Science 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.

What: 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 worm-holes, dig in rough, fresh-surfaced soils observation pits, study fragipans in a till cut. Field observations, fracture measurements and photographs collected at the field day will be incorporated into an upcoming OJS paper, memorializing the day, "Fractures in Fragipans" to be written by Frank Calhoun, Jim Bauder and Tom Zimmerman. Be part of the data collection and photography team. Join in the fun and research. If we use your photos or sketches, they will be credited. Always looking for co-authors.

When: Two dates planned in case of rain again this year. Friday, September 5, 2003 or Tuesday, September 9, 2003 (Rain Date).

Where: Wooster, Ohio. The meeting starts at the ATI Campus in the morning. Field sites are the ATI Apple Creek 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. Help raise funds to offset page charges for the 2nd Special Issue "Fractures in Ohio's Glacial Tills", Ohio Journal of Science, scheduled for 2004 printing. Applying for Continuing Education Credits for Certified Soils Professionals (AOP, ARCPACS) and Registered Sanitarians. May also be accepted by some states requiring CEU's for geologist's registrations.

How Much: \$40.00 (Students, \$25.00). Registration due by Friday, Aug 22, 2003

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

- 8:30 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 Creek 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 Creek Farm Land Lab for lunch
- 12:00 PM Break for box lunch and conversation at Apple Creek Farm
- 1:00 PM Travel to geology/soils pits at ATI Apple Creek 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 Weat erington-Rice, B&W, and anyone else who wants to throw I 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.

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

Lodging: List of possible locations in Wooster attached.

Registration Form

Name _____ Phone _____

Address _____ e-mail _____

_____ Zip _____

Employer _____ Title _____

Organization _____

Special Diet Requirements _____

Need CEUs, AOP _____ Reg. Sanitarian _____
Contributions towards OJS Publication Page _____

Charges _____
Make check out to WMAO Field Day, Fee is \$40.00 (\$25.00 for students) includes meals & materials. Additional contributions towards publication page charges gratefully accepted.

Ohio Pedologist

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



Mailing label