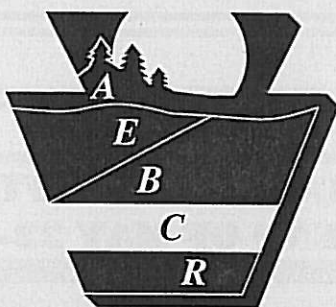


PENN



SOIL

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PAPSS NEWSLETTER

May, 1998

A TRIBUTE TO DR. F. GLADE LOUGHRY

By Leonard W. Tritt, DEP

Dr. F. Glade Loughry, a charter member and past-Board member of PAPSS, died March 6, 1998 in Lancaster Hospital after a brief illness. He was 87.

Born April 16, 1910 in Marion Center, Indiana County, Glade graduated from Marion Center High School in 1927 and from Penn State University with a B.S. in Agronomy in 1931. He obtained his Masters Degree in Soils from Ohio State University in 1934 and, while working for that degree, was employed as a soil surveyor by the Ohio Ag Experiment Station from 1931 to 1933.

In 1934, Glade began his stellar career as a soil scientist with the federal agency which became USDA Soil Conservation Service. From 1934 to 1967, he worked as soil survey party chief, supervisor of flood control surveys, Assistant Regional Soil Scientist for the Northeast, and for 21 years, State Soil Scientist for Pennsylvania. During this time, he obtained his Ph.D. in soils from Penn State under the guidance of Dr. Louis Kardos.

Soon after retiring from SCS, Glade became Chief of the Soil Science Unit in the Pennsylvania Department of Health, which later was included in the new Department of Environmental Resources. He remained there until mid-1977, during which time the soil science staff expanded from two soil scientists to a dozen or more statewide and soil science became recognized as an important part in protecting the environment.

Shortly after his retirement from DER, Glade and his wife Margery, whose health was failing, moved to a cottage at a retirement home. Caring for Margery was his first concern, but he still remained busy with gardening and much volunteer work at the home. He even did part-time soils consulting until he was about age 80.

In addition to PAPSS, Glade was a member of a number of scientific and professional organizations. He was a Fellow in the American Academy for the Advancement of Science and a charter member of The Soil Conservation Society of America (now named Soil and Water Conservation Society).

Glade Loughry was a quiet but social and extremely knowledgeable but humble man. His nearly 50 years in soil science did much to prove its importance to man and the environment, especially in Pennsylvania. Those who worked closely with him must count it a privilege. His devotion to his late wife, his profession, his church and mankind have earned him a peaceful rest in eternity.

**PENN STATE SPRING FIELD TRIP
WEEKEND OF MAY 22-24, 1998**

Steve Dadio and Patrick Drohan, graduate students at Penn State University are organizing a spring field trip for the weekend of May 22-24, 1998. The field trip will be to the glaciated and unglaciated sections of Northwestern and North Central Pennsylvania. The following is a brief itinerary of that scheduled trip:

Friday, May 22, 1998

7:00 - 9:00 PM Welcome mixer and introductory meeting.
Stay the night on your own in State College.

Saturday, May 23, 1998

7:30 AM Leave State College and travel up to Kane (McKean Co.)
Breakfast (coffee and donuts will be provided).
We will visit research sites and some soil pits within the
Allegheny National Forest.
Lunch will be provided.

5:30 PM Travel to Coudersport (Potter Co.) and stay the night.
Dinner may or may not be provided.

Sunday, May 24, 1998

8:00 AM Leave Coudersport and view soils of Potter Co. & Upper Clinton Co.
with either Jake Eckenrode or Tim Craul, NRCS.
We will see both glaciated and unglaciated soils of Potter Co. and
famous dam break near Austin.
Breakfast and lunch will be provided.

7:00 PM Return to State College.
Dinner may or may not be provided

COST (Per Person Basis)

Welcome mixer, 2 breakfasts, 2 lunches:	\$25.00
Hotel (2 people to a room)	\$25-35.00
Transportation:	(possible range from...) \$25-40.00

Anyone interested in attending this field trip should contact Steve Dadio or Patrick Drohan at (814)863-7628 or (814) 865-6541.

**PAPSS TECHNICAL SESSION FIELD DAY
HAZELTON SOIL MONOLITHS
WEDNESDAY, JUNE 17, 1998
9:00 AM TO 3:00 PM
BEECH CREEK MOUNTAIN ROAD
CLINTON COUNTY, PA**

As part of the Hazleton State Soil recognition program, the NRCS and PAPSS plan to create ten to twelve soil monoliths to be used for educational and display purposes. You are invited to help make the monoliths.

The site of the description of our state soil is located in northern Clinton County. We will be gathering at the newly-located NRCS office in Lamar, PA just off Exit #25 of Interstate-80 at 9:00 AM (sharp) then traveling about 40 minutes to the site.

This will be a valuable learning experience for many of us who have never made monoliths. The plan is to split the participants into three or four groups and make as many monoliths as time permits. Materials will be supplied by PAPSS.

Liquid refreshments will be provided. Due to the remoteness of the site, please bring a bag lunch.

You MUST pre-register! To register or for more information, contact John Chibirka at (610) 736-3220.

For directions to the NRCS office in Lamar or directly to the site, contact Jake Eckenrode at (717) 726-3196.

**PLAN NOW TO ATTEND!
SAPROLITE FIELD SESSION
JULY 25, 1998
YORK COUNTY, PA**

Another Saturday Session, from 10:00 a.m. to 2:00 p.m., will be held in Fawn Grove, PA. Backhoe excavations into saprolitic parent material will be evaluated, and a box lunch will be provided. Look for an upcoming announcement regarding details and registration.

**1998 NATIONAL COLLEGIATE SOIL JUDGING CONTEST
HOSTED BY THE UNIVERSITY OF GEORGIA****by Steve Dadio
Penn State University**

On April 3, Penn State placed fifth at the 1998 National Collegiate Soil Judging Contest. (While the past history of Penn State Soil Judging isn't fully known by me, this appears to be Penn State's best finish at a National Contest since 1979). Sixteen schools competed at this contest, held near Athens, GA. While there was beautiful weather all week, there was 2-3" of rain the day of the contest - *the color books are still drying*. Individual, Penn State placed two students in the top 10: Gina Kertulis (6th) and Jason Weigle (9th).

TOP 10 SCHOOLS

Texas A&M	(1819)
Iowa State	(1807)
Wisconsin-Platteville	(1802)
Oklahoma State	(1790)
Penn State	(1789)
Auburn	(1765)
Purdue	(1764)
VA-Tech	(1756)
Tennessee-Knoxville	(1752)
Cornell	(1749)

TOP 10 INDIVIDUALS

Christine Smith (A&M)	(625)
Alan Domnick (Plateville)	(619)
Joanne Spangle (Purdue)	(614)
Jennifer Minning (A&M)	(613)
Chad Idhe (Iowa State)	(613)
Gina Kertulis (PSU)	(610)
Larry Starkey (VA-Tech)	(602)
Vanessa Stevens (Tenn.)	(601)
Jason Weigle (PSU)	(598)
Jay Skovlin (Montana St.)	(598)

Penn State Soil Judging Team: Gina Kertulis, Chad Penn, Sean Summers, Lee Syme and Jason Weigle.

**PAPSS PROMOTIONAL DISPLAY COMPLETED
AND AVAILABE FOR PRESENTATIONS**

**We still need more photos and ideas.
For more information, call Ed White at (717) 237-2207.**

MORPHOLOGICAL BASED LOADING RATES**By Joseph A. Valentine**

As the on-lot sewage disposal program heads into an era of new technology, soils previously considered unsuitable for on-lot sewage disposal may be utilized. It is imperative that a proper loading rate be determined by the soil morphologic conditions. The current trend nationwide is to proceed towards a loading rate prescribed by the morphology of the soil. Numerous states (Wisconsin, North Carolina, Virginia and Arkansas) have already initiated the siting and loading based upon soil morphologic conditions.

In Pennsylvania, we simply identify a limiting zone using morphology but determine a loading rate based upon an antiquated method called a percolation test. Percolation test results are inconsistent and difficult to duplicate. Previous studies by Fritton and others at Pennsylvania State University confirmed the inaccuracy of utilizing percolation tests.

As we move into the 21st Century, the time has arrived that professionals in the field of soil science should be utilized to identify the proper loading rates using soil morphologic conditions. Perhaps a mechanism could be instituted where a *qualified soil scientist* (which is incidentally defined by Act 537, Chapter 73) could identify a loading rate based upon soil morphologic conditions. This would provide the opportunity from a capitalistic standpoint to utilize soil scientists and avoid the cost of time and money to complete a percolation test. How this mechanism could be implemented is unclear. Can the PA DEP simply write a policy? Will it take a legislative act? We will never know the answers to these questions unless, as a group of professionals in the field of soil science, we take the initiative to pursue the concept that siting and determination of loading rates of on-lot sewage disposal systems on a natural soil body requires the evaluation by a professional soil scientist.

Anyone interested in developing a morphological based loading rate for Pennsylvania should contact Joe Valentine at (215) 345-5545.

**JOINT SAPROLITE FIELD TRIP
MAPSS AND VAPSS
AUGUST 17-18, 1998**

On August 17 and 18, 1998, a two-day field trip is being proposed by the Mid-Atlantic States Association of Professional Soil Scientists and the VA Association of Professional Soil Scientists for a location somewhere in Maryland. The trip's subject matter will be saprolite. Invited to this joint meeting are also the North Carolina Association of Professional Soil Scientists. Michael Vepraskas of North Carolina State University is one of the invited speakers. Any PAPSS member interested in attending the meeting should contact Joe Valentine at (215) 345-5545 for information regarding the trip.

