

THE Auger



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The Newsletter of the Minnesota Association of Professional Soil Scientists

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President's Message by Charles Saari

The year has gone by fast and this is the last of my Presidents messages. At this time I would like to thank the rest of the Executive Committee members, Past President James Arndt, President Elect James Balogh, Secretary Daniel Comeau, and Treasure Michael Walker for all the help that they have given me and all the time that they have spent on MAPSS business, to help make the organization have a successful year. I would also like to thank all the many members who have worked on the many projects this past year. My last official presidential duty will be to conduct the business meeting at our Annual meeting in St Cloud on December 6, 2002. I hope that many of you will try to attend and give MAPSS your support.

We had a very successful summer tour that was held in the Marshall area, I want to thank all the people that put a lot of work into putting it on. We had good attendance with the Minnesota Chapter of the Soil and Water Conservation Society, joining us in a combined tour. It helped make the tour more interesting and gave MAPSS exposure to

other people. Many of us are members of both groups, this may bring in new members as they see some of the things we do to promote use of soils data.

Jim Balogh has put together an interesting program for the technical portion of the winter meeting and I hope that it draws a big turn out. There are some issues that need to be taken up at the business meeting that will be of concern to the membership. One item that has come up is the possibility of publishing the news letter on an E-mail format, it would be faster to get out in a more timely manner. There are some Soil Science practice issues being proposed, where other disciplines could the soils evaluations for large ISTS systems.

Another item that has come up is the updating of the things that are on the MAPSS web site and the possibility of making it more interactive for the public.

Thank all of you for your help this past year. I hope to see you in St. Cloud at the annual meeting.

The Auger is made up of volunteered articles from the MAPSS membership. If you would like to contribute, please contact me at the following:
David Kelley
JRC 432
Univ. of St. Thomas
2115 Summit Ave.
St. Paul, MN 55105

Minnesota Association of Professional Soil Scientists

2002 Winter Technical & Business Meeting

Forensic Soil Science:
Methods and Experiences for Soil and Site Investigations

Friday, December 6, 2002
8:00 am – 4:30 pm

Location:

Radisson Suite Hotel St. Cloud, 404 West St. Germain, St. Cloud, Minnesota

Directions to the Conference Center are provided with the attached map.

Meeting Objectives:

- Introduce attendees to the concept of forensic soil investigations
- Introduce attendees to methods and techniques for complex site and soil investigations
- Update soil science professionals on recent changes in BWSR wetland rules
- Update soil science professionals on changes in the Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geosciences, and Interior Design signature rules
- Discuss important MAPSS business including how to make the MAPSS web page more useful, changes in the newsletter format, and using short e-mail updates on information related to the practice of professional soil science in Minnesota.

Continuing Education Units:

There are 6.0 hours of direct education time or 6.0 professional development units for the technical meeting. This is the equivalent of 6.0 CEUs. Be sure to download a continuing education form from the Minnesota Board of AELSLAGID web site (www.aelslagid.state.mn.us). Fill out this form and keep all of your materials in case of a continuing education audit. The same number of CEUs can be used for ARCPACS CPSSc requirements. MAPSS will keep a transcript of all meeting attendees who have paid the CEU Fee.

CEU for the technical meeting are obtained without paying the \$10 CEU fee. However, your attendance at the conference will be certified by MAPSS only by paying this fee. MAPSS will certify and maintain a record of your attendance, which will be provided to licensing boards or ARCPACS upon your request. All other attendees must maintain their own records.

MAPSS will not certify your attendance without paying this fee.

Meeting Agenda:

- 8:00 – 8:30 am Registration
- 8:30 – 8:45 am **Welcome to the Meeting**
Charles Saari, PSS, MAPSS President
- 8:45 – 9:00 am **What is forensic soil science?**

James C. Balogh, Ph.D., PSS, Spectrum Research, Inc.
- Introduction to the concept of forensic soil science
 - Overview of technical meeting
- 9:00 – 9:45 am **Is it alive...Lessons learned in forensic soil investigations?**
James Arndt, Ph.D., PSS – Peterson Environmental Inc.
- Application of soil science field methods to forensic site investigations
 - Case studies related to forensic hydric soil and wetland delineations and functioning
- 9:45 – 10:30 am **Using piezometers to determine high water levels in problem soils**
Dan Wheeler, SSIT, Research Fellow, University of Minnesota
- Knowing the elevation of saturated conditions is essential for many applications
 - A combination of morphological and piezometer methods are discussed for establishing depth to saturation in problem soils
 - How to use piezometers to determine the high water table in soils includes a discussion of a study at the U of M, Dept. of Soil, Water, and Climate
- 10:30 – 10:45 am **Break**
- 10:45 am –
12:15 pm **MAPSS Business Meeting**
Charles Saari, PSS, MAPSS President
- Awards & scholarships
 - Making the MAPSS newsletter and web site useful for professional soil scientists
 - New officers
 - Committee reports
- 12:15 – 1:00 pm **Lunch**
- 1:00 – 1:45 pm **A method of characterizing soil water movement –
Going beyond perc tests**
Robert Whitmyer, PSS, MPCA Designer I, Matrix Soils & Systems, Inc.
- Establishing the rate of water movement through soil is essential for determining site suitability for many urban and rural conditions especially on sites with disturbed soils
 - Use of a relatively new, field tested method for determining percolation and saturated conductivity developed is discussed
 - This is a demonstration that soil physicists produce useful methods for practicing professional soil scientists

Meeting Agenda: Continued

- 1:45 – 2:30 pm **Watershed monitoring to determine actual effects on urban watersheds**
Sara Beth Scadlock, Environmental Scientist, & James C. Balogh, Ph.D., PSS, Spectrum Research, Inc.
- Many urban watersheds now have receiving waters with regulatory total maximum daily loads (TMDLs). Establishing the input of runoff, nutrients, and pesticides into surface and groundwater is essential for many urban and suburban landscape managers especially those under regulatory scrutiny
 - Use of watershed monitoring with h-flumes, lysimeters, and continuous samplers is an intensive method used to determine the real (vs. assumed) runoff, nutrient, and pesticides losses from discrete management areas within a watershed
 - Results of the monitoring also are used to validate models
- 2:30 – 2:45 pm **Break**
- 2:45 – 3:30 pm **Update on BWSR rules for wetland delineation and mitigation**
Thomas Mings, PWS, Senior Wetland Specialist, Minnesota Board of Soil & Water Resources
- An update on recent WCA rules for delineation and mitigation plans will be discussed
 - Proposed establishment of a certification programs for wetland delineation will be discussed
- 3:30-4:15 pm **Signing your work: Why is this a good practice for professional soil scientists?**
Dawn Tracy, Ph.D., PSS, Geoscience Board Member, Minnesota Board of AELSLAGID
- Recent statute and rule changes require a certification and signature of all licensed professionals, including soil scientists, subject to MN Statute 326.01 –326.15
 - Signing all work with soil science content also is a way of marketing your competence as a licensed professional soil scientist
- 4:15 – 4:30 pm **Panel Discussion and Questions on Forensic Methods for Soil and Site Investigations: All Technical Presenters are included**
James C. Balogh, Ph.D., PSS – Moderator, MAPSS Meeting Coordinator, Spectrum Research, Inc
- 4:30 – 4:45 pm **Distribution of Certificates of Attendance and Information on Transcripts Provided by MAPSS**
James C. Balogh, Ph.D., PSS – MAPSS Meeting Coordinator, Spectrum Research, Inc



Registration

Detach this part of the announcement and return with fees to the MAPSS 2002 Winter Meeting Coordinator. Detailed information on the meeting, receipt, and directions to the meeting will be provided with your materials package. **To receive your materials package prior to the meeting, your registration must be received by November 15, 2002.**

Name: _____
 Address: _____
 City, State, Zipcode: _____
 Telephone and e-mail: _____

Fees:

MAPSS Members: \$35.00 ____
 Non-MAPSS Members: \$45.00 ____

Late Reservation (After Nov. 15, 2002)

MAPSS Members: \$40.00 ____
 Non-MAPSS Members: \$55.00 ____

Optional CEU Fee: \$10.00 ____

Total Enclosed: _____

Make checks payable to MAPSS. Send registration and check to:

MAPSS 2002 Winter Meeting
 c/o Spectrum Research, Inc.
 4915 E. Superior St., Suite 100
 Duluth, MN 55804

Optional CEU Fee

CEUs are obtained without paying the \$10 CEU fee. However, your attendance at the conference will be certified by MAPSS only by paying this fee. By paying the CEU fee, MAPSS will certify and maintain a record of your attendance. This record or transcript will be provided to any licensing or certifying boards upon your request. All other attendees must maintain their own records. **MAPSS will not certify your attendance without paying this fee.**

If you are maintaining your own record, be sure to download a continuing education form from the Minnesota Board of AELSLAGID web site (www.aelslagid.state.mn.us). Fill out this form and keep all of your materials in case of a continuing education audit.

Conference Center-Hotel Information

The MAPSS 2002 Winter Meeting is located at the Radisson Suite Hotel St. Cloud, 404 West St. Germain, St. Cloud, MN 56301. If you are planning to stay overnight, call 320-654-1661 for reservations. Make your reservations early.

The Radisson Suite Hotel is located on 404 West St. Germain in downtown St. Cloud, MN. The following are directions to the conference center:

From Minneapolis/St. Paul

94 West

Exit right on Highway 75 (Exit 171)

Turn right on Washington Memorial Drive

Turn right on Division Street (Highway 23)

Turn left on 4th Avenue

Radisson will be two blocks down on the left side

From 1-94 Eastbound

94 East

Exit left on Highway 75 (Exit 141)

Turn right on Washington Memorial Drive

Turn right on Division Street (Highway 23)

Turn left on 4th Avenue

Radisson will be two blocks down on the left side

From Highway 10

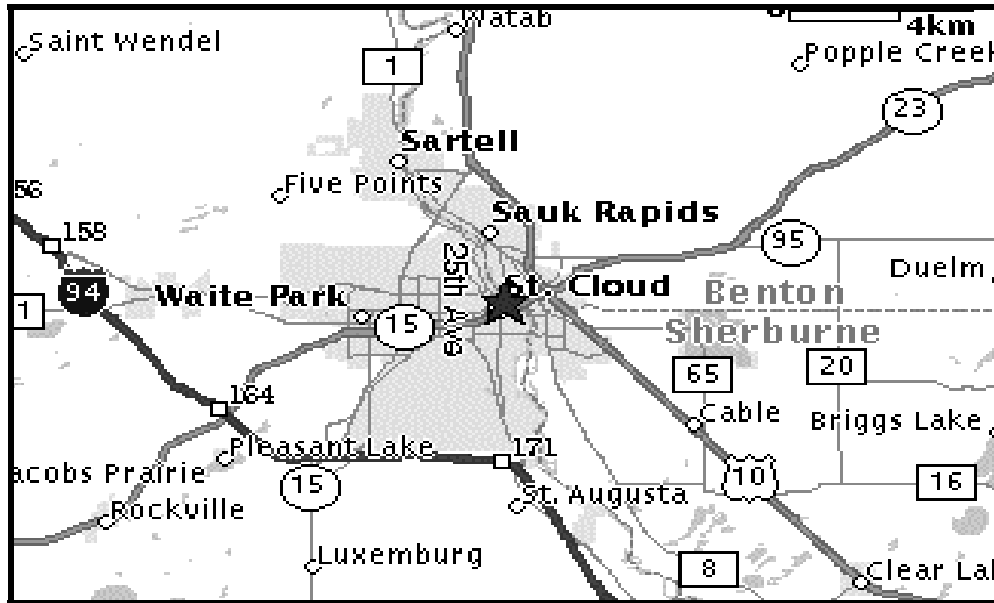
Exit west on Highway 23

Turn left on 4th Avenue

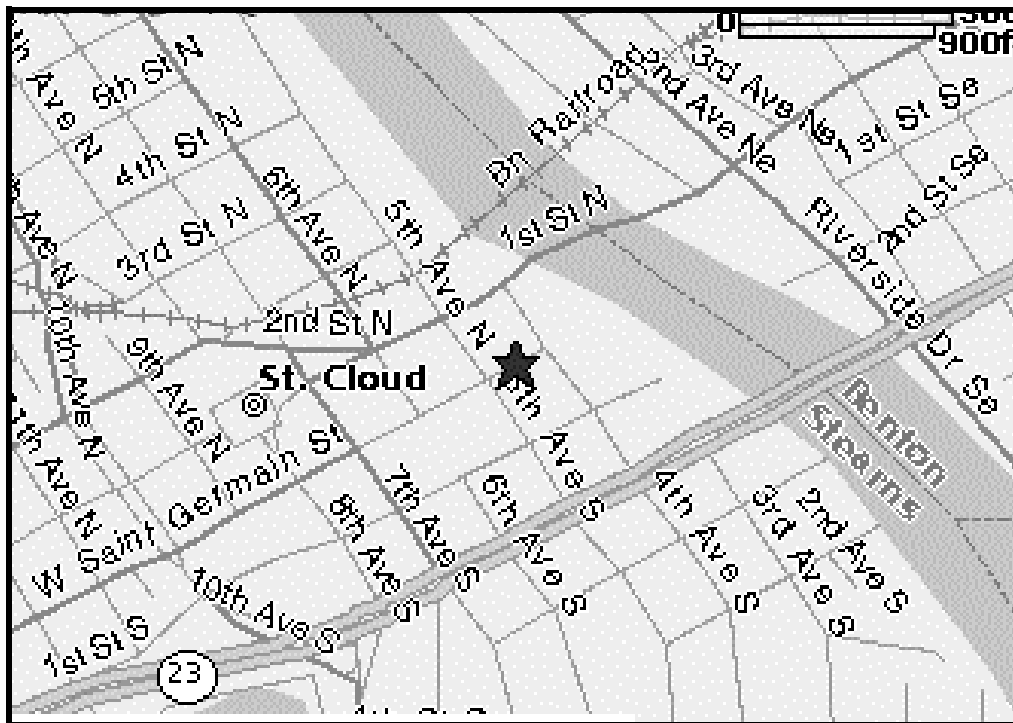
Radisson will be two blocks down on the left side

Maps to the MAPSS 2002 Winter Meeting are on the following page.

St. Cloud Area Map



Downtown St. Cloud Map



MAPSS EXECUTIVE COMMITTEE ELECTION 2003

CANDIDATES FOR PRESIDENT:

Roger Berggren, PSS:

I received a B.S degree in Soil & Water Resource Management from the University of Minnesota in 1975. I then began my Soils career with the University of Minnesota as a MAES Soil Scientist and worked on 10 soil surveys during the next 17 years. Afterwards, I worked as a Soil Scientist for the Mille Lacs SWCD for 2 years. In 1995 I began a new career with McLeod County and am currently the Director of McLeod County Environmental Services. I am a licensed Soil Scientist and I also have a MPCA ISTS Designer I license.

_____ : WRITE IN VOTE

CANDIDATES FOR SECRETARY:

Laurie Brown, PSS:

I began my Soil Science education by first receiving an A.A. degree in Rural Resource Mgt from Sterling College in Vermont and later a B.S. degree in Soil & Water Resource Mgt. from the University of Minnesota. Following graduation I worked as a Soil Scientist with NRCS mapping soils for 7 years in Otter Tail and St. Louis Counties. For the next 7 years I worked for the wastewater treatment plant in Duluth with their biosolids land application program. Currently, I am using my expertise to have the best darn garden in the township as I attend to my two young children at home.

Patricia Wright:

I graduated from Utah State University in Soil Science and Biometeorology in 1980. I worked for the Florida Department of Agriculture, USDA Forest Service and SDSU West River Research Station. In 1988, I accepted a job with the USDA Soil Conservation Service and worked on 3 soil surveys in the Red River Valley in northwestern Minnesota. In August of this year, I moved to Saint Paul to work for the Army Corps of Engineers. In my new position;, staying informed about wetlands, land use issues, environmental impacts and many other topics MAPSS addresses; is even more important to my work.

I have been a MAPSS member since the early 1990's. I attend many of MAPSS's informative tours and meetings and was newsletter editor in 1997. I welcome the opportunity to serve as MAPSS secretary.

_____ **Clip Here** _____

ELECTION BALLOT - 2003

President:

Roger Berggren _____

Write-in: _____

Secretary:

Laurie Brown _____

Patricia Wright _____

Write-in: _____

Mail Ballots To: Robert Anderson, 1316 Martha Street N., Stillwater, MN 55082

Ballots Due By: November 30, 2002

Reminder: Only Full or Honorary members may vote. Only ballots that have the member's signature on the outside of the envelope will be counted. Election results will be announced at the December 2002 Meeting.

SOIL SCIENTIST OF THE YEAR NOMINATION

Not only is it time to elect new officers for MAPSS, it is also time to honor a colleague in our organization who has contributed or performed their duty for the enhancement or better understanding of soil science. A brief description to support the nomination is required.

- **Please send your nomination to:** Charles Saari, c/o MAPSS 1702 36th St. SW., Rochester MN 55902
- **Include with the nomination:** 1) Your Name; 2) The Nominees Name; 3) A brief summary of the nominee's contribution or performance as described below.

I. SOIL SCIENTIST OF THE YEAR

MAPSS will annually recognize a member as "Soil Scientist of the Year". The individual will be honored for some special achievement or accomplishment during the previous year (Nov. 1 - Oct. 31).

The Awards Committee will review all nominations and make the selection per the rules and guidelines with final approval by the Executive Committee. Full members in good standing may nominate any member of MAPSS for this award.

Rules and Guidelines:

1. Eligibility - All MAPSS members - Full and Associate - in good standing with the exception of the current members of the Awards Committee and members named as Soil Scientist of the Year within the last 5 years.
2. Provide detailed information for items listed under Number 3 below and submit to the chairperson of the Awards Committee by November 20 of each year.
3. Provide reasons and supporting documentation for award:
 - Candidate name
 - Job title
 - Location
 - Principle duties
 - Special achievements or accomplishments (50-80 points). A statement of 300 words or less supporting the candidate's achievements in developing a better understanding of soil resources, enhancing better uses of soil resources, etc. should be included.
 - Service to MAPSS (10-20 points).
 - Professional/ technical society activities (5-10 points).
 - Continuing education (0-10 points).
 - Civil and humanitarian activities (0-10 points).
 - Awards and honors (0-5 points)

(Numbers in parenthesis are a point guide used in reviewing nominees.)

4. The candidate selected as Soil Scientist of the Year will be honored at the Annual Meeting of MAPSS.

Spectrum Research, Inc. Continues to Sponsor Scholarship for UM Undergraduates Taking the CSSE Fundamentals of Soil Science Examination

By James C. Balogh, Ph.D., PSS, Senior Soil Scientist and CEO, Spectrum Research, Inc.

Spectrum Research, Inc. continues to recognize the importance of licensing and certification for our young professionals. Although only Minnesota, North Carolina, Maine, Wisconsin, and New Hampshire have licensing programs for the practice of the full range of soil science, many states have mandatory requirements for ARCPACS certification to practice soils for certain applications (e.g. soil survey, on-site wastewater treatment system site assessments). Both licensing and ARCPACS certification require that applicants take the Fundamentals of Soil Science Examination (FSSE) and the Professional Practice of Soil Science Examination (PPSSE) prepared by the Council of Soil Science Examiners.

The cost for taking the examination in Minnesota is \$150. For many undergraduates at the senior level, this may be a difficult financial hurdle. Of course the best time to take the FSSE examination is immediately before (April) or immediately after graduation (October). This is a time when seniors sometimes have spending constraints. In order to help our young soil science professionals meet their career goals, Spectrum Research, Inc. has established a scholarship to help defray the cost of the exam for up to 10 students per year (five per exam). The Spectrum scholarship will pay the entire expense for the first ten undergraduate students applying for the scholarship. Only students from the Department of Soil, Water, and Climate at the University of Minnesota are eligible for this scholarship.

Application for the scholarship is very simple. Simply apply for the FSSE exam during your senior year. You must apply for the exam at least 60 days prior to the exam date. Apply for the October exam by August and for the April exam by February. Exam application forms are available from the Minnesota Board of Architecture, Engineering, Land Surveying, Landscape Architecture, Geoscience, and Interior Design (651-296-2388) or download the forms from the Board web site (www.aelslagid.state.mn.us). Prior to submitting the form to the Board office, give a copy to Profession Jay Bell in the Department of Soil, Climate, and Water at the University of Minnesota. They will verify that you are a senior or an immediate graduate from the University of Minnesota. Spectrum Research, Inc. will then make out scholarship checks to the Minnesota Board of AELSLAGID for the qualified students. Dr. Bell will then submit the check to the Board office with the check.

This is an excellent opportunity to give financial help and professional encouragement to our aspiring soil scientists. If you know of soil science students, please give them a copy of this article. We encourage our University of Minnesota members of MAPSS to post a copy of this article or tell students about this opportunity. **To date no students have availed themselves of this opportunity.**



<i>Place your ad in The Auger ...</i>		
<u>Ad Type</u>		<u>Cost</u>
Classified	First 40 words	\$5.00
	Additional words	\$0.20/word
Positions	First 40 words	\$5.00
	Additional words	\$0.10/word
Ad Copy	Photo Ready format	\$15/column inch
Business Card	Standard Size	\$25.00

MAPSS Newsletter (David Kelley)
JRC 432 Univ. of St. Thomas
2115 Summit Ave.
St. Paul, MN 55105
651-962-5569

RETURN SERVICE REQUESTED

MAPSS Officers and Committees

2002 Officers

President: Charlie Saari
President Elect: James Balogh
Past President: James Arndt
Secretary: Daniel Comeau
Treasurer: Michael Walker

Education Committee:

Peter Hartman-chair, Thomas Jackson, Kim Steffan, Becky Sovde, Howard Hobbs, Jorja Dufresne

Membership Committee:

Dennis Fuchs-chair, Al Giencke, Greg Larson

ISTS Committee:

Tom Fait-chair, Mary West, Terry Bovee, Norm Kuhlman, Mike Rutten, Mark Wespetal

Professional Practice Committee:

Jim Arndt-chair, Phil Nesse, Sabrina Cook

MAPSS Permanent Address:

MAPSS, 439 Borlaug Hall, 1991 Upper Buford Circle
St. Paul, MN 55108
