# Meeting Minutes are subject to Revision and Final Approval at the 2006 Annual Meeting

# MAINE ASSOCIATION OF PROFESSIONAL SOIL SCIE Annual Meeting on March 8<sup>th</sup>, 2005 Augusta Elks Lodge

President Jim Logan opened the meeting at 9am with introductory remarks.

**Secretary's Report**: Chris Dorion gave the Secretary's Report for 2004. The epoch is attached at the end of the minutes. The 2004 Annual Meeting Minutes of MAPSS were moved to be accepted, the motion was seconded, and unanimously approved.

**Treasurer's Report:** Andrew Carpenter gave the 2004 Treasurer's Report. The report is attached at the end of the minutes. In summary, MAPSS has ~ \$2,600 in hand after paying for the 2005 Annual Meeting, (\$900), 2005 stipend (\$500), 2005 web site design (\$500), and 2005 Envirothon (\$250). Motion to accept report moved, seconded, passed unanimously.

MDEP/LURC Task Force Report: Darryl Brown lepoxed. The Task Force was formed ca. 1992. Darryl Brown is the MAPSS representative. The resk is predominantly comprised of engineers. Overall, it was a quiet year. The new major focus is storn water regulation. There is new rule making that will require Legislative approval later this year. The egulations are moving away from detention basins toward infiltration. This will increase the need for ich intensity soil surveys. The goal is to receive Legislative approval by June of 2005, and it will become law after 90 days. In summary, the Task Force reviewed all legislation affecting MDEP/LUCC, and form water was the primary issue that would affect MAPSS.

Vernal pools were also discussed along with their proposed new regulations as <u>Wetlands of Special Significance</u> which may take effect later this year.

Membership Report: Lee Burman reported that all membership data has been transferred to Andrew Carpenter. Lee Burman reported that all members and 18 associate members. 57 renewal postcards were sent out and meet were answered. Dave Rocque provided Lee with a list of M.C.S.S. She invited all who were not rembers of MAPSS to join and 4 accepted the invitation. Students were invited to join as associate members and 5 new ones joined.

The Membership Chair is responsible for increasing or maintaining members, while dues go to the Treasurer who keeps the data base current.

*Discussion*: There is a challenge of staffing the Executive Committee (E.C.) with fresh members out of only 48 full members. Getting "new blood" into the organization will be a challenge.

Lee Burman is stepping down and there is a need for a new Membership Chair.

**Smithsonian Update:** Don Phillips gave the report for the committee which consists of himself, Chuck Lyman, and Johanna Szillery. As of March 8<sup>th</sup>, MASE has committed \$1,000, MAWS \$500, and \$575 has

been received from individuals. The goal is to gather \$10,000 so that the Chesuncook Soil Monolith can be permanently displayed at the Smithsonian Museum in Washington, D.C. in the upcoming soils exhibit.

**Education Committee Report:** Don Phillips reported on the Janet Cormier Scholarship Fund. He needs two volunteers to help in evaluating applications. Dave Marceau, Andrew Carpenter, Corinne Leary, Bonnie Stewart, and Darryl Brown volunteered. The two winners will be announced in the June issue of *THE LAY OF THE LAND*.

**UMO Update:** Johanna Szillery reported for Ivan Fernandez. The notes are attached at the conclusion of the minutes.

Discussion: There were questions raised about students becoming associate members. There are  $\sim 20$  undergraduate soils students and  $\sim 7$  Masters degree students, which is fewer than 30 years ago. Today's program is changed from that of 30 years ago. It seems students are pursuing a more interdisciplency course of studies, for example entitled "Ecology and Environmental Science", which includes wild after studies.

**New England Hydric Soil Technical Committee Report:** Joe Noel was not present Dave Rocque gave the following report:

My report for Joe Noel on the NEHSTC included the DownEast Ford Trip and a discussion of our (NEHSTC) only meeting since the las MAPSS Annual meeting. That meeting discussed last years fall tour which looked at vernal pool soils in Rhode Island. Issues brought for your menual.

- 1. Difficulty distinguishing mineral from organic urface oil horizons in wet soils
- 2. Differentiating ortstein development from adzolization
- 3. The concept of Nodules as redoximorph c fee, we and whether or not an ortstein is a nodule
- 4. Data collected seems to indicate that in wet sandy spodosols, the application of the indicators results in a salse negative (this was seen at the MAPSS workshop last summer in Scarborough). Thoughts by the committee included allowing ortation as an indicator, defining color and thickness of a Bh as part of an indicator, and allowing a stripped appearance as a stand alone wetness feature.

The committee is considering whether the problem of false negatives with wet sandy spodosols, and be fixed with modifying an existing indicator or if a new indicator needs to be developed.

Steve Hundley soted very thick (12 to 15 inches) albic horizons in southern New England that have been recognized as Bg of Cg horizons. There is a need to investigate deeper than 15 inches; a Bhsm can be foun below this depth. In this situation, the *FIELD INDICATORS* keys cannot be used and professional judgment should be employed.

**MAPSS Web Site:** Chris Dorion gave the report. He reported that \$500 was raised from last summer's Hydric Sandy Soil workshop in Scarborough toward overhauling the website. Seth Mercier from KenBrio offered to design the new site as part of their company's *pro bono* work for a non-profit organization. The committee consists of Laura Suomi-Lecker, Chris Dorion, Dave Turcotte, and Ted Butler. Anyone with ideas, web sites they like, links, photos, or other suitable materials is encouraged to help out.

The new web site will contain an index page linked to Membership data, application, recent papers/publications, photo galleries, soil profiles, landscapes, and other soil resources. The new 2004 MAPSS Guidelines will be on-line also.

**NRCS Update:** Wayne Hoar reported that they have hired 5 new people. They are working on the southern Penobscot County survey. The Hancock/Washington Counties survey is close to completion. Western Aroostook County survey will be started full-time this coming field season.

There is one GS-9 soil scientist position open in Presque Isle office. They are hiring 3 temporary soil scientists this year.

Wayne Hoar presented 2 maps, one showing the status of on-going soil surveys and the other showing the availability of digital soils data..

Southern Piscataquis County soil survey will be on a CD soon.

The National Review was held last May, and the Maine NRCS needs to increase their technology sage. Toward this end, they are now training with ARC GIS, 3D Mapper, and Ortho Mapper software. This gives them the ability to digitize in the field and also to scan field maps.

There are 10 to 12 water table studies with data loggers for water level and temperature at present.

*Discussion*: Students are graduating with less than 15 hours of soils classe and texonomy/soil morphology. Can MAPSS help with this?

Discussion: There is at present no formal agreement between MAPSS, NROS, Maine Department of Agriculture, and the University of Maine Forest Experiment. Databot (NCSS) to work together. Wayne Hoar suggested that for MAPSS to join this group, he would draft a new agreement so that MAPSS could become part of the Cooperative Agreement. One person am MAPSS would then be invited to all the Cooperative workshops during the year, such as Archael Rev. ws. MAPSS sponsored workshops would be part of this Cooperative Agreement.

The motion was seconded and animously approved.

#### Morning Coffee Break

**Election of Officers:** No Walloch, Nominating Committee Chair, presented the slate of officers:

President Laura Momi-Lecker
Vice President Chris Dorion
Treas ver: Andrew Carpenter
Secretary Dave Turcotte
Director: Daryl Brown

Additional nominations were solicited from the floor. Receiving none, it was moved to accept the slate as presented. Motion was seconded and unanimously passed by the membership.

Don Phillips volunteered to continue as Education Committee Chair.

The Membership Committee Chair was

**New Discussion for Membership:** Dave Rocque presented proposed revisions to the **2004 MAPSS Guidelines**.

Discussion of High Intensity Soil Survey definition: The basis for this discussion was that there is some confusion by the public, town officials, and even regulators as to what exactly a high intensity soil survey is. MAPSS Class A and Class B soil surveys are examples but not the only soil surveys that can provide site specific detail.

A long discussion ensued, revolving around whether to add "...for a particular land use." It was noted that this is the first time a high intensity soil survey (HISS) has been defined. It was noted that the proposed definition is slightly different from that proposed that appeared in the winter edition of the *Lay of the Land* newsletter. A motion to accept the following definition was put forward: "A soil survey that provides sufficient detail to make site specific decisions." Motion was seconded, vote showed two members opposed and the remaining in favor. Motion carried.

It was also noted that MAPSS needs to meet with MDEP to educate their resource specialists regarding Class A, B, and C soil surveys and when each one is appropriate. The categories are fine, but gut noe is needed on when to require each one.

Discussion of proposed revision to Class A soil survey: The basis for this discuss in its confessional engineer requirement for location under the direction of a registered land surveyor or qualified professional engineer was developed before GPS was available. In addition, it is possible for a Class A soil survey to be conducted on a small urban lot with good ground control for swing ties or time a grate measurements that do not require location by survey instruments. The only question is do we want to define what is meant by "accurate" such as to the sub-meter level?

Daryl Brown moved the following definition: "Ground contact Dase mie and test pits for which detailed data is recorded are located to sub-meter accuracy under the direction of a qualified professional. The motion was seconded and passed by the membership.

**Joint MASE/MAPSS Workshop:** For 2005, it loots be the last week in August (30<sup>th</sup>-31<sup>st</sup>). They are looking for a site with 3 parent materials – glacioflucial wash, marine sediments, and glacial till. A suggestion was made to add a workshop course of the placement accuracy. Anyone with a potential workshop site should contact Dave Roofine at 287-2666 as soon as possible.

<u>Draft Agenda for Downeast Trip:</u> Dave ocque handed out an agenda for a soils trip Downeast in September. This is attached following the minutes. It will follow by one week the NEHSTC tour of problem soils. Early registration and room reservations are advised as there are few motels in the area.

*Motion:* For MAPSS to spotsor this workshop from September 20<sup>th</sup>-22<sup>nd</sup>, to cost \$35 for members and \$50 for non-members. Motion seconded. Discussion: This workshop will be mailed out to MAWS and MASE memberships as well. Motion passed unanimously.

**Envirother** June Moved to approve \$250, seconded, passed unanimously.

Agricultural Trace Show: Discussion of whether MAPSS should continue to have a presence at this venue of their venues were discussed such as Maine Municipal Association, Maine Association of Planners, Commo Ground Fair, and others. It was decided to let the incoming E.C. make the decision.

**MAPSS Scholarship:** It was moved to give \$500 to the Janet Cormier Fund to be awarded to the best proposal; motion seconded and passed unanimously.

**Smithsonian Fund:** MAPSS has ~ \$2,400 in its treasury at present. Dave Marceau moved to approve \$1,000 toward the Smithsonian Fund so that the Chesuncook Soil Monolith could be permanently displayed. Motion seconded and passed unanimously.

**MAPSS brochure:** Dave Turcotte spoke and moved that MAPSS produce a new, high quality, color, professional brochure for MAPSS. Cost would be  $\sim$  \$670 for 1,000. It was moved to approve up to \$700

to be used for this brochure, and that Dave Turcotte will volunteer to lay it out and walk it through the printing process. Motion seconded. Discussion followed.

An amendment to Dave Turcotte's motion was moved. The amendment changed the amount to \$750 and that the Executive Committee would approve final design. The amendment was seconded and passed.

The main motion was then voted; it passed with two opposed.

**Sid Pilgrim's Lecture:** Sid Pilgrim presented results from Karen Dudley's M.S. thesis on wet spodosols. Albic horizons in WD and PD classes were compared. Under Indicator IX A, only 2% RMFs needed in E to key out. Point of measurement is top of mineral <u>unless</u> O-horizon is greater than 8 inches thick. Look in the glossary under "surface" to find this situation.

Stripped matrix – some sand grains are stripped in the albic and are white; others are not and have gray color (usually organic coatings). This stripped matrix is more common in southern New England. "Stripped matrix" basically replaced "organic streaking". Probably not present in forthern New England. Albic mapping in 3D soil pits was conducted, describing the map view of each he work in the profile view to gain an understanding of the 3D shape of this "stripped matrix".

Values of 6 and 7: white color. Values of 4 and 5: gray color. Values of 3 and 3 beck color. There are 4 recent or soon-to-be-published articles on wet spodosols coming out in *Soit Survey Horizons*. Color by itself is not a good indicator of wetness; you need to take into consideration the forest floor thickness (greater is wetter) and the thickness of the E-horizon (greater is wetter)

Try scraping down a small horizontal area (map view) and measure the white v. gray v. black colors. This is 90 degrees opposed to how we normally examine soil as (from the side walls).

Indicator IX B fits northern New England well, but ar avys use professional judgment as needed.

**Wayne Honeycutt's Lecture:** The focus a control because upon decomposition, isothyocyanate is produced naturally, discouraging pests. Water use is still a configuration of gue swork by farmers. He noted early on that he thought that historical potato declines in the NE (relative to the rest of the country) were a function of inefficient use of irrigation water. Efficient use of manure numbers is important. In organic matter tests, 1 to 3% of the test result is just microbial activity.

Johanna Szillery and Tessica Sherman Lecture: Lectured on metal leaching at the Bear Brook Experimental Watershed Paripulation site. As one of the watersheds was acidified, metals such as calcium became nobile and were lost through the system. Below pH of 4.8, aluminum was released; below ph of 8, it is a lost. Forest stand type (hardwood v. softwood) had a major influence on this process

Outging President Jim Logan adjourned the meeting at 3pm as a snowstorm was winding up outdoo.

#### 30MARCH2005

Respectfully Submitted by Christopher C. Dorion MAPSS Secretary 2002-2004.

#### SECRETARY'S REPORT 2004

Christopher C. Dorion, Secretary

### MAINE ASSOCIATION OF PROFESSIONAL SOIL SCIENTISTS

ANNUAL MEETING NOTICE: Was included with the winter edition (Volume 9, Issue 2) of **The Lay of the Land**, mailed on or about February 10<sup>th</sup>, 2004 to all members.

QUORUM: 1/3 of full members or 25 members, which ever is smaller.

SECRETARY'S RESPONSIBILITIES: Keep a written record of each meeting and send copies of the minutes to all the Association members.

The 2004 Annual meeting minutes of March 2<sup>nd</sup>, 2004 are ava inspection.

Executive Committee meeting minutes of:

- January 20<sup>th</sup>, 2004
- April 1<sup>st</sup>, 2004
  May 24<sup>th</sup>, 2004
- December 16<sup>th</sup>, 2004

are available for inspection. (With i website, E.C. meeting minutes will be posted after formal approval).

MAPSS SPONSORED EXELD MEETINGS: MAPSS sponsored or co-sponsored three workshops during the year

- 2004 DEP/LURC/SPO soil survey workshop in Augusta, Maine January 26
- Hydric sandy soils workshop in Scarborough, Maine
- 2004 Joint MASE/MAPSS soil taxonomy and pedology The Corinth, Maine

University of Maine, Department of Plant, Soil, and Environmental Sciences update, from Ivan Fernandez, reported by Johanna Szillery

• PSE hired a new faculty in horticulture. New hire is Stephanie Burnett, Assistant Professor of Horticulture. 60% teaching and 40% research. Areas of emphasis are ornamental herbaceous plants and greenhouse production. She will arrive in July

2005. Her M.S. is from Auburn, 2000, and Ph.D. is from Univ. of Georgia, 2004.

- Some of the newer faculty who have recently been tenured are beginning their turns at sabbatical and will be traveling to the corners of the planet in the next few years as they bring back new insights and knowledge. Stay tuned!
- Areas of activity in research to include forest soils, wetland soils in sustainable agriculture, and submerged soils all are active in the department.
- As discussed today, major new funding from the National Scence Foundation for Bear Brook and watershed/soil research at Acadia, in West Virginia, and in Europe will keep those programs quite active over the next few years.
- The department is in the process of selecting a new charperson for next year as Sue Erich completes her term in July, 2005. Grey Porter is the likely successor to the throne, although the process is ongoing at this time.



#### **MAPSS Treasury Report**

21-Mar-05

MAPSS Checking Account as of 12/11/04	\$2,514.59	\$2,514.59	
Income			
2005 Dues (full membership)	\$875.00	35 full members at \$25.00 each	
2005 Dues (associate membership)	\$210.00	14 associate members at \$15.00 each	
2005 Conference Registration	\$1,315.00	44 registrants at \$30.00 each*	
Expenses			
2005 Conference Costs	-\$986.92	to the Elks Club	
Reimbursements to members for expenses	-\$394.60	for stamps copying, mailings, newsletter, etc.	
Total in MAPSS Account at the end of March 2005	\$3,533.07		
Anticipated income 2005 Dues (full membership)	\$225.00	13 full members at \$25.00 each	
2005 Dues (associate membership)	\$90.00	6 associate members at \$15.00 each	
Downeast Hydric Soils Tour	<u> </u>	14 registrants at \$25.00 each	
Anticipated expenses			
Smithsonian contribution	\$1,000.00		
MAPSS Website work	-\$500.00		
Janet Cormier Scholarship	-\$500.00		
Envirothon	-\$250.00		
MAPSS Brochure	-\$750.00		
Reimbursements to members for expenses	-\$600.00		
Anticipated Total in MAPSS A punt for December 2005	\$698.07		

<sup>\* \$5.00</sup> deduct for one regional twho brought their own lunch

# 2005 MAPSS DOWNEAST HYDRIC SOIL TOUR

# **REGISTRATION**

MAPSS is sponsoring a Hydric Soil Tour in Washington County, Maine September 20, 21, and 22, 2005. We will be visiting sites seen the week before by the Technical Committee for the Field Indicators for Identifying Hydric Soils in New England and will be able to share those participants insights. Don't miss this unique opportunity to combine site seeing with technical development. The agenda is attached. On Wednesday, September 20, there will be a lobster/clam bake after we are finished with the last site of the day at Cobscook Bay State Park. The bake will be put on by friends at the

Washington County Soil and Water Conservation District and will consist of the following:

2 "Bugs" a person (that's Lobsters) / steamed clams / soda-water-juice or BYO / chips /

blueberry cream pie (If someone doesn't want lobster, there will be dogs and burgers) The cost of the workshop is \$35.00 for members and \$50.00 for non-members plus \$25.00 for the lobster bake. Please send your checks, payable to MAPSS, to: Andrew Carpenter P.O. Box 361 Belfast, Maine 04915 In order to help the SWCD in ordering food, they need to know many will be participating in the bake. Please indicate below if you will be battaking of the bake. Registration for MAPSS 2005 Down ast A dric Soils Tour and Lobster Bake At Cobscook Lay State Park Name: Address: Phon Email: Number Attending Site Reviews: X \$35.00 or \$50.00 = Number Attending Bake: \_\_\_\_\_ X \$25.00 = \_\_\_\_\_ **Total Enclosed** Number Attending Blueberry Barrens Tour (no extra charge)

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P.S. – Rooms to rent are limited in the Machias area so we suggest reserving one as early as possible. The instructors will be staying at the Bluebird Motel so that will be the take-off point.

## MAPSS DOWNEAST HYDRIC SOILS TOUR



Some of you may remember MAPSS hosted a problem hydric soils our in the Rangeley, Maine area a few years ago. After a year long delay due to a hurrican the tour visited several sites that were part of a tour for the committee who developed in Field Indicators d Indicators المحافظة for Hydric Soils in New England. Well, Maine is again hosting to Committee only this year the tour will be in Downeast Maine. Ites include a folist (nonsaturated organic soil) and histosol (saturated organic soil) at West Quoddy Head State Park which are separated by about 25 feet, a poorly drained narine sediment that has a high chroma matrix due to erosion from neighboring red parent material shallow to bedrock sandy loam glacial till soils, dark colon sand tune soils located at Roque Bluff State Park between a freshwater pond and the ocean and a shallow to bedrock aquod (saturated loamy sand glacial till soil with an horizon and dark colored B horizon) with a thick O horizon. The tour will start out on September 20 with an afternoon visit to the famous blueberry barrens, which have unique geology and soils, for those interested, and then move to the soil sites the new two days. A lobster/clam bake is being thrown in for good measure at the end of the day September 21. The tour ends in Jonesboro on September 22 around now for a reasonable departure time unless you want to stay and enjoy the downeast area for fey more days. Cost of the tour is \$35.00 for MAPSS members and \$50.00 for non-nembers, per person. Add \$25.00 if you want to participate in the lobster/clant ake. This is an excellent opportunity to sharpen your skills at Is in some challenging and very scenic locations and at a relatively determining bydric se pest free and warm time of year. You will also benefit from the combined experience of some of the est soil scientist minds in New England who will view the sites the week

# 2005 MAPSS HYDRIC TOUR DOWNEAST

<u>Tuesday (9/20)</u>: Depart <u>Bluebird Motel</u> in Machias @ 1:00pm - Take Blueberry Barrens tour.

(Unique glaciofluvial/Marine delta landscape - with Geologist overview)

Return to motel around 5:00PM.

Wednesday (9/21): Leave Bluebird Motel at 7:30 AM. (Try to have your lunch with you, but we will stop at a store prior to stop 2)

Site 1: Passamaquoddy Tribal Land - Creasey soil (developed from red sandstone) and poorly drained glaciomarine sediments with chroma 4/5 matrix in B horizon and 3

chroma in C horizon, due to influence of upslope Creasey soils - 10:30)

Site 2: West Quoddy Head State Park - Histosols and Filists in close followed by Lunch @ Quod proximity to one another prospects of whale watching.

LOBSTER BAKE - Cobscook Bay State - after Site 2 (around 4:00PM)

Thursday (9/22): Leave Blue iro Motel at 7:30 AM. Site 1: Roque Bluffs State Park - Machias (8 - 10 AM)

ndy stes with thick dark surface underlain by Beach / Dune s Identification of redox difficult. sands with

Site 2: Joyesboro Patten site: (10 - end)

Shallow/moderately deep Folists (O, E, R horizonation) and Spodosals wi ortstein.

will head home after Jonesboro site or stay and enjoy Downeast for the weekend \*\*\*

#### **INFORMATIONAL WEB SITES**

Washington County info:

http://www.mainerec.com/wc.asp?Category=131&PageNum=131

Quoddy State Park and link to other State Parks: http://www.state.me.us/cgi-bin/doc/parks/find one name.pl?park id=10

Machias, Maine Chamber of Commerce (motels, activities, businesses etc.)

http://www.machiaschamber.org/

The Bluebird Motel:

http://www.ohwy.com/me/b/blbdmoma.htm

The Riverside Inn in East Machias, Maine:

http://www.riversideinn-maine.com/

Passamaquoddy Tribe info and links: http://www.native-languages.org/passamaquoddy.htm#tribe