



***PRESIDENT'S ADDRESS***

*David L. Marceau, ME CSS #182; MAPSS President  
Over the Hill Farm Environmental Consultants*

I am writing this article knowing that this is my last chance as President to address you in our newsletter. It has been my pleasure to serve you as President and I have enjoyed trying to improve the profession of soil science in Maine through MAPSS. However, it is time for me to move on and for others to take over. In my tenure as President I have tried to provide you with the most up to date technical information possible. As part of that, I'm happy to announce that MAPSS will host another Natural Resource Workshop this autumn. More on that is included elsewhere in this newsletter. And, of course, MAPSS has made real headway at modifying the standards by which we assign hydrologic soil groups as well as stormwater buffers. I will let you decide for yourself how successful my efforts were.

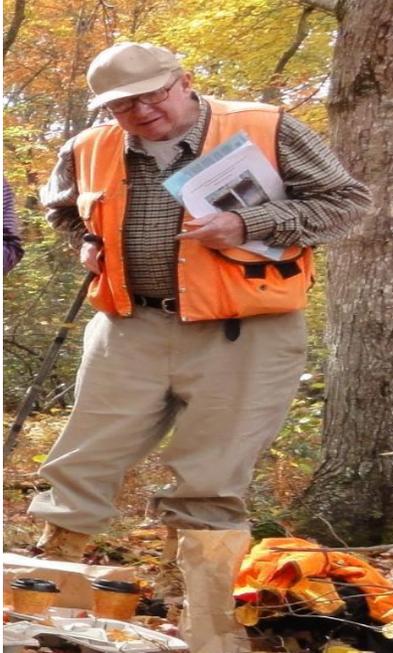
The decisions we make in the coming months will guide us as to what will happen in the future. I am encouraged that there are some young people being trained as soil scientists that will likely be certified shortly. You will hear at our annual meeting about a proposed new way of determining hydrologic soil groups and some new technology which will allow us to collect and reproduce soil data. Although I am officially retired I will still be around to promote the profession of soil science in Maine.

With this my last year as President, let me get off soil science issues for awhile and allow me to write more about someone I knew these last 30 years or so - - Sid Pilgrim. Many of you also knew him and the influence he had on the profession of soil science. But first, let me back up a bit so I can give you a bit of background.

After I graduated from UMaine in 1983, the Adjunct Professor of Soil Science at the University of Maine, Bob Rourke, recommended that I contact Sid as soon as I arrived at my new soil science position in New Hampshire because "he would not steer me wrong, and, would be a great soil resource." And so it was that I met Sid.

Soon followed 7 years, years that I lived and worked in NH, and I progressed in my new position with the State of New Hampshire Water Supply and Pollution Control Commission as the NH State "Soil Engineer." During those years, Sid had an enormous influence on my career and the way I interpret soils. He always had sound reasoning for his thought processes and respected everyone's opinion. Clearly, I was honored (and still am) to call Sid a good friend and a great mentor. Well, you can guess what's coming. My next words are hard for me to say, but Sid Pilgrim passed away in Durham, NH, on October 20, 2018. He will be missed by many.

I urge readers of this newsletter to follow the link presented on the next page so that you can read an untitled 12-page Memoir, in its entirety, written and first presented in 2015 in Sid's honor.



“Within the community of soil scientists in New England, there are a few who stand out as the real ‘Dons’ or leaders of the profession. But there is only one ‘Godfather,’ and that is Sid Pilgrim of New Hampshire.”

*Thom Villars, NRCS Soil Resource Specialist, VT*

Sid has spent most of his life helping various entities across New Hampshire help keep our soils healthy. He has worked with a large variety of professionals whose main goal is to use our soils in NH to their best possible potential without harming them in order to keep them healthy. He has worked with or taught researchers, agronomists, mappers, foresters, geologists, town officials, state officials, wetland scientists, environmental professionals, and many other environmentally concerned individuals. He has been an integral part of NH conservation decision-making in terms of using soil maps for land development, creating soil maps for individual towns, wetlands and their needs for setbacks, wetland delineation parameters, the certification of soil scientists, and even the placement of tunnels *below* NH tidal marshes for the Seabrook Power Plant.

Sid has taught just about every existing soil scientist in the state of NH *something* about soils, and it has been noticed that when he speaks, everyone listens. If the term “soil science” is brought up, then Sid’s name always seems to be mentioned next.

You can read the rest of the article by clicking on the following file: [Sid Pilgrim article \(2\).doc](#) . We thank the author, Karen Dudley, a USDA Natural Resources Conservation Service Soil Scientist based in New Hampshire, for giving us permission to use it for our newsletter.

Hint Hint Hint, from the Newsletter Editor: If you have a hard time opening it, or subsequent hyperlinks, used in this newsletter, save to your favorite folder and try it again; it should open more easily for you. You want to know how long it took for me to discover that little trick? Put it this way: “Ask me no questions and I’ll tell you no lies.”

And please do not overlook another Memoir written in these pages in honor of Allan Ott, CSS and LSE, who practiced mostly in Downeast Maine.



**Remembering Allan Ott**

*Aleita “Lee” Burman, C.W.S., C.S.S., L.S.E.  
Burman Land & Tree, LLC*

Allan E. Ott, C.S.S., L.S.E., past member of MAPSS and MASE, passed away on November 21, 2018 in Bar Harbor, Maine. He was a good man and the soil science profession benefitted from his strong character and excellent work ethic. He will be missed by all who knew and worked with him. In his honor, I would like to prevail upon you the importance of apprenticeship and mentoring of the younger generations of soil scientists.

Allan was my first mentor in the soil science profession, taking me on as an apprentice soil site evaluator in 1992. Allan was an excellent teacher. Yes, he taught me the site evaluation rules and about “passing” soils, and system design, etc., but more importantly, he taught me how to be an ethical consultant. Allan was not a “ruler bender” (☺)! He always stressed the importance of consistency and of doing good work, no matter what. His lessons have stayed with me throughout my career, and while I didn’t fully appreciate them at the time, I certainly do now that I am on my own.

So here is the message to all of you, and my hope for the future of our profession – take someone under your wing! Teach them your profession. Yes, it’s a hassle, but we need good, ethical soil site evaluators and soil scientists working in Maine. Pass on your knowledge. Be a guide and a mentor for a young scientist. Be like Allan Ott.

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Note: Opinions expressed by the authors of articles are not necessarily endorsed by MAPSS



**Board of Certification for Geologists and Soil Scientists:  
Proposal to make Changes to the Soil Scientists Licensing Statutes**

*By Dave Rocque, Maine Dept of Agriculture, Conservation & Forestry Soil Scientist*

I have been a member of the Board of Certification for Geologists and Soil Scientists for nearly 32 years, thanks to my position as the State Soil Scientist. During my early years on the Board, Maine licensed its soil scientists by having applicants take a single exam. About 15 years ago, we changed to a two-part exam, one part for *Fundamentals of Soil Science* and a second part for *Professional Practice*. The impetus for this change was to participate in a national licensing system developed by the Soil Science Society of America (SSSA) for their certification process. Our thinking was that, by adopting a national exam, our license would be more easily portable across state lines, as many other states also adopted the SSSA licensing exams. In addition, a new SSSA exam is developed every year by the Council of Soil Science Examiners (CSSE) which is a subcommittee of the SSSA. The CSSE develops its exams annually using a bank of questions developed by soil scientists in conjunction with psychometricians (people who measure the validity, reliability and fairness of the exams). The Maine exam used previously was infrequently reviewed and revised. Our Board was comfortable with the SSSA Fundamentals of Soil Science exam but not the *Professional Practice* Exam. The *Professional Practice* exam developed by the SSSA was deemed to be focused too heavily toward the west and arid region soil problems. Not only are arid region soil problems not relevant to Maine, few Maine applicants to become certified as soil scientists would have much experience with those soils types and problems. Therefore, we developed our own professional practice exam focused on Maine pedology, for applicants interested in our most common professional practice area which is conducting soil surveys and making soil maps. For soil scientist applicants interested in becoming licensed for another specialty area such as soil erosion/sediment control, soil chemistry, soil physics etc., *professional practice* exams are created on an as-needed basis. With the adoption of the SSSA Fundamentals of Soil Science exam, our licensing process is at least partially portable to other states where they have adopted the SSSA licensing exam, making it easier for Maine licensees to become licensed in those states, as well as making it easier for newcomers to Maine, who are licensed in other states, to become licensed in Maine.

In 2007, the Maine soil scientist licensing statutes were revised, allowing applicants to take the *Fundamentals of Soil Science* exam before they had attained their requisite 3 years of experience, including in their senior year at a university. Kind of like creating a soil scientist-in-training category. Allowing students to take part of the licensing exam before or soon after graduation was viewed as a means to entice students to take soil science courses and to provide them with a marketing tool for future employment.

During my years on the Board, one of the most frequent complaints I have heard from prospective applicants was the requirement for a four-year baccalaureate degree to qualify to



take the exam for licensure as a soil scientist. There was no other path to licensure as a soil scientist in Maine. Even reciprocity requires the applicant to have a 4-year degree. As a licensed forester, I was aware that the Forestry licensing Board had several avenues for licensure and even the geologists statutes allow several pathways to qualify for their examination. It seemed to me that our soil scientist licensing statutes should be revised to also allow for more than one pathway. I brought this up at a Board meeting last year where the concept was generally agreed upon, with the suggestion that we soil scientist members should develop possible pathways for consideration. Over the course of the past year, I and the other soil scientist Board members, Ivan Fernandez and Johanna Szillery, met and hammered out another option that was approved by the full Board as well as our Board administrator, Catherine Carroll and the Commissioner of the Department of Professional and Financial Regulation, Anne Head. The proposed statutory change would allow applicants to sit for the Soil Scientist licensing exam with either a 4-year or 2-year degree in soils, plants, engineering, geology, biology, forestry or other natural resources science provided they also had at least 15 credit hours of soils or soil related courses and had the minimum amount of soil science work experience. For applicants with a 4-year degree, the minimum amount of qualifying work experience is 3 years and for those with a 2-year degree, 5 years of experience is proposed. Both pathways will take a minimum of 7 years to qualify for taking the professional practice exam.

Another change we are proposing is to revise the requirement that soils or soil related courses must be taken during the time a student is engaged in a 2- or 4-year degree program. It is our belief that suitable soil science courses can be taken anytime, not just while in the process of obtaining a degree.

Since the statutes will be open, the Department of Professional and Financial Regulation is proposing to update terminology and make other minor adjustments such as changing “Certification” to “Licensing”.

The proposed changes to the statutes will be submitted as a Department of Professional and Financial Regulation bill this legislative session, which should make it easier to get through the legislative process. Opening the statutes may come with some risk, though. Once the statute is opened, the legislature can propose changes of its own, which can be most anything, so we must be vigilant when the bill is heard. I will keep the MAPSS President informed as the bill makes its way through the legislative process, and notify him/her if or when a letter of support or testimony will be needed.



### A Cool Way To Increase Soil Science Visibility

*More From Dave Rocque, ME DAC&F Soil Scientist*

Here's an interesting chain of emails that Dave Rocque forwarded to the newsletter editor about an innovative way of "spreading the word" about soil health. For your information, Carol Weymouth is employed by the Maine Conservation Districts, and Meg Leader is employed by the Indiana Department of Agriculture as the Director of Soil Health, Division of Soil Conservation. Read on.

**From:** Carol Weymouth [mailto:cweymouth@maineconservationdistricts.com]  
**Subject:** [EXTERNAL SENDER] FW: Update on our USPS Soil Health Stamp Proposal

Hi, all ~ earlier this year, I wrote a letter of support on behalf of MACD for the Indiana State Dept. of Ag to join in recommending that the US Postal Service create a stamp promoting soil health. Meg Leader, from Indiana, is spearheading this request, and recently shared the news that the USPS has responded that the Soil Health postage stamp issue is moving on to the next step in the process. Can't 'lick' a soil health stamp yet, but maybe in the future? Another way to provide outreach on a topic that is so vital and necessary.  
Cheers, Carol

**From:** Leader, Meg <[MLeader@isda.IN.gov](mailto:MLeader@isda.IN.gov)>  
**Subject:** Update on our USPS Soil Health Stamp Proposal

Thank you to everyone for your support of the Indiana State Dept. of Agriculture's proposal to the USPS asking them to create a Soil Health stamp.

Our proposal was mailed in July and included nearly 70 letters from supporters like you, plus 700 online signers, representing 44 states and 2 territories.

I wanted to let you know that the proposal has passed the first hurdle in the process. As the attached letter states, this is not the final authorization, but it's a step in the process.

Again, thank you.

Meg Leader  
*Director of Soil Health, Division of Soil Conservation*

**From:** Leader, Meg <[MLeader@isda.IN.gov](mailto:MLeader@isda.IN.gov)>  
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Again, thank you.  
Meg Leader



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**MAPSS Technical Committee Meeting 8 January, 2019 Notes**  
Greg Granger, ME NRCS:

The principal purposes of the meeting were to address the Hydrologic Soil Group (HSG) proposal, and to evaluate the Albert Frick and David Rocque versions of Vegetated Treatment Buffer (VTB) proposals.

Attendees: David Rocque, David Marceau, Roger St. Amond, Chris Dorion, & Tony Jenkins.

1. HSG

- Tony discussed the limitations of the NRCS assigned values and difficulty in making changes
- The concept of range of characteristics for each soil series with high low and representative value (RV) was discussed. NRCS HSG classes tend to follow the RV.
- HSG is the #1 most downloaded report on NRCS Web Soil Survey
- Motion accepted to draft a letter from MAPSS to NRCS Soil and Plant Science Division (formerly Soil Survey Division).
- Discussed the limitations and fatal issues with the triangle approach:
  - Right axis of the triangle is inconsistent with >24" and 24"-40" categories
  - Doesn't cover each texture class, would need modification to assign textures to existing classes
  - Would need modifiers and guidance for rock fragments and consistence factors
- Tony presented a draft excel file that does that uses the Official methodology in the NRCS National Engineering Handbook (Chapter 7). The worksheet has all the Ksat data for the state and uses the actual HSG method used by NRCS.
- Motion accepted to develop a proposal using NRCS methodology in the excel format to present at the MAPSS annual meeting and to discontinue any further discussion of using the triangle.
- Further discussion and examination of the excel methodology will be discussed at the next Tec Com meeting scheduled for 23 January. Tony will be developing a proposal to route to the membership using.

2. VTB

- Discussion of the problem with Maine DEP VTB sizing requirements
- Two proposals have been developed, one by Albert Frick, and one by Dave R.
- Dave M. explained that they are not practical on small lots with small parking areas and that people usually opt for under drain soil filters instead at great expense. Dave M. has collaborated with Albert on the development of his methodology.
- The Albert VTB sizing approach uses complex equations. It hasn't been tested.
- Dave R. has developed his own simple methodology. This approach looks at the permeability of the downslope soils and organic duff surface. This methodology hasn't been tested.



- Dave R. has discussed his approach with DEP and received support at lower levels but road blocks at upper levels. With the change in administration he may readdress this with DEP within a year.
- Motion accepted to reject advancing Albert's methodology.
- Dave R. will better define his proposal and present his method to the general membership at the annual meeting.

**As Promised: A Hydrologic Soil Group Final Reckoning**

*Tony Jenkins, ME NRCS State Resource Conservationist*

At the upcoming annual meeting, Hydrologic Soil Group (HSG) issues will be reviewed and a MAPSS methodology for onsite development of HSGs for sites and High Intensity Soil Surveys (HISSs) *will be proposed for a vote*. The proposed method will be presented in detail as a training exercise using field pedons from last fall's meeting in Orono.

Background: An HSG of C or better affects the cost of a proposed project, an HSG of D can be a project killer, and so on... HSGs are a major part of the soil scientist product line, and the product quality is constrained by the limitations of the current method of attribution. Currently a site or a HISS component is equated to a soil series, which has one HSG (usually) for the whole range of its occurrence. That is a problem because *most soils that are MWD or better can have 2 or 3 HSGs* due to the ranges possible in depths to water tables and impermeable layers. The most egregious issue is the HSG of D or C/D (read – D) for so many MWD soils – placing them in the same category with concrete and ponded hydric soils. On-site specific HSG is a tremendous value addition for consulting soil scientists, should they choose to adopt it. You might have heard me mention that a few times before... so let's get on with it.

Proposal: MAPSS has heard various proposals to allow SSSs to develop HSGs for sites and the components of their HISS map units. Most recently the Technical Committee evaluated the Rhode Island Triangle. Its defensibility proved to have some issues, and it was dropped from consideration. Those issues included: problems with separation of SHWT depths, and the use of inexact groups of soil textures as proxies for Ksat is too subjective and simplistic. Also proposed earlier and recently reevaluated and adapted into this current proposal is to simply use the official method for HSG attribution – Chapter 7 of Part 630 of the NRCS [National Engineering Handbook](#). At present the draft instruction manual (7 pages), is available on the MAPSS website as a PDF file; it can be downloaded (1.5 M) and printed off for practice. **In this Newsletter, the two files the Newsletter Editor was given can be opened by clicking on the 2 hyperlinks that follow, the first one: [using web soil survey](#) and the second one: [HSG\\_field\\_method.pdf](#)**. Basically you use your representative pedon (RP) to obtain the depths to SHWT and impermeable layers (rock, Cd, or pan), and to identify the least



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transmissive layer above the impermeable layer. You get the Ksat estimate for that layer from NRCS soil survey information for the analogous layer in the analogous component (series), and presto you get a much more meaningful HSG. At least as pertains to your RP, which hopefully you selected thoughtfully:).

We'll run through it and it will be crystal clear! I am hoping you will even vote for it.

### **ANOTHER SOIL AND NATURAL RESOURCES WORKSHOP AT REID STATE PARK**

*By David Rocque*

Save the date: *Wednesday September 4, 2019*. I have been talked into organizing another soils and natural resources workshop and have chosen Reid State Park for a couple of reasons. First, it is centrally located and one of my favorite places. And, second, I think it will be interesting to revisit some of the sites used 10 years ago when we first held a workshop there to see if there have been any changes in interpretations. One of the sites, where I was stationed 10 years ago, I believed had oxygenated groundwater, accounting for the lack of redoximorphic features even though most of the soil pits in the transect had a groundwater table at or near the surface most of the year. Shortly after the last workshop, I installed Iris Tubes by the soil pits to make a more positive determination and the tubes are still there for you to see the result. As in the past, I will include soil pit evaluations for septic systems, soil series determinations, hydric soil determinations and, new this year, Ksat determinations for Hydrologic Soil Group assignments. Also included will be vernal pool evaluations, wetland determinations, vegetated buffer stormwater treatment evaluations, stream determinations and where to begin measuring for setbacks in the shoreland zone. There will be a couple of soil pits in a back-sand dune. As you know, it is very challenging to make hydric soil determinations in sandy soils. I will be assembling an all-star team of experts to classify any new soil pits excavated for the workshop and ACOE, MDEP, LUPC and DHHS will all be involved to make determinations and then explain them to workshop participants during the discussion session at the waterfront pavilion. As usual, the workshop is being sponsored by MAPSS, MASE and MAWS. Should be a fun, entertaining and educational time for all.



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**Minutes of the MAPSS 2018 Annual Meeting**  
**Unity College Center for the Performing Arts**  
**Unity, ME; March 7, 2018**  
*By Amy Jones, MAPSS Secretary*

Meeting began at 8:45 a.m.

**INTRODUCTION & WELCOME:**

Kevin Spigel, Unity College Professor of Geoscience and Chair of Unity's Earth Sciences Program, welcomed MAPSS. MAPSS President, Dave Marceau, also welcomed attendees and gave a brief overview of the meeting agenda.

**2018 SUMMER WORKSHOP POSSIBILITY/REPORT:**

Tony Jenkins suggested a workshop Meeting, that he would head up, at the UMaine university forest in Orono focusing on morphology and mapping. He's already talked to the head forester and the Wednesday after Labor Day is open and reserved for the group, if desired. Greg Perkins asked if students would be in session at that time and could there be some involvement there, if so. Some comments were made on pulling in some wetland and shoreland zoning topics to widen the interest of potential attendees. Dave Marceau suggested possibly bringing in a LUPC person to discuss some upcoming LUPC rule changes (changes are being made to be more consistent with DEP).

**2018 BUSINESS MEETING, TREASURERS REPORT FOR 2017:**

Gary Fullerton, Treasurer, discussed the 2017 treasurer's report. Income from dues was a bit less due to a slight drop in membership. The 2017 annual meeting cost more than what was brought in due to UMaine typically being higher in cost, plus there were some additional costs due the snowstorm and meeting re-scheduling. The annual workshop wasn't much of a money maker in 2017 since it was focused essentially on soil science and thus drew less interest from other groups. Overall the account was down approximately \$1500 for the year, though there is still about \$10,000 in the account.

Tony Jenkins made a motion to accept the Treasury Report. It was seconded by Dave Rocque. Motion passed with no nay votes.

**2018 BUSINESS MEETING, SECRETARY'S REPORT:**

Amy Jones, secretary, asked if anyone had any questions or comments regarding the 2017 Annual Meeting Minutes. They had been posted in the most recent MAPSS newsletter. No one had anything to say. Tony Jenkins made a motion to accept the Secretary Report. It was seconded by Dave Rocque. Motion passed with no nay votes.



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## **2018 BUSINESS MEETING, UNIVERSITY OF MAINE UPDATE**

Kaizad Patel, PhD student, read a report from Ivan Fernandez (since Ivan could not attend the meeting) regarding soil science at the university. Essentially Ivan's report said that not much had changed in this past year. Most of the soils work that is being done is indirectly through forestry, wetland, and waste management related programs/classes.

## **2018 BUSINESS MEETING, JANET E. CORMIER SCHOLARSHIP**

Kaizad Patel was the-recipient of the 2017 scholarship, and he talked to the membership. He stated that he used the money to help pay his Visa fees, as well as to purchase some soil science books. He is nearing the end of his PhD program. His research and analysis are completed, and he is currently writing, with the potential for defending in early summer.

Emily MacDonald was this year's scholarship awardee and is the first Unity College recipient. She is a Junior pursuing a double major in Earth/Environmental Sciences and Sustainable Agriculture. She is considering pursuing a career in soil science in the government sector and is interested in soil quality and soil health.

Don Phillips made a motion to provide \$1000 for the scholarship for 2019. Lee Burman provided a second. The motion passed with no nay votes.

## **2018 BUSINESS MEETING, MAWS UPDATE**

Rod Kelshaw and Lee Burman provided some information about MAWS activities that may be of interest to MAPSS members. Rod mentioned the state legislature Environment and Natural Resources Committee had a meet and great about proposed metallic mining legislation. MAWS did not provide a position in favor or opposed to the legislation but did go through the proposal and commented on certain components that they thought should be addressed in going forward with the legislation.

Lee said that MAWS was also looking at how the state might be able to include better language for interpretations regarding wetlands of special significance in chapter 10 of the Natural Resources Protection Act (NRPA).

## **2018 BUSINESS MEETING, NRCS UPDATE**

Tony Jenkins talked about two projects. The first one was that NRCS is doing soil sampling for mercury content watershed-wide on Passamaquoddy Lands.



The NRCS, as far as soil mapping goes, is currently focused primarily on coastal zone mapping. Matt Dorman said they are doing tidal marsh transects and sampling for bulk density and carbon. They have Gouldsboro as a soil series and there are proposals for potentially six more with some having primarily loamy or sandy material, a possible hemist and usitic. Matt also mentioned that in the mountainous regions, MRLA 143, they are continuing to do Ecological Site Descriptions.

Tony said the USDA has done a lot of reorganization and they may be moving towards privatizing some work, but it has yet to be determined. He also mentioned that in the soil science division work is ongoing to harmonize soils data.

Tony also let MAPSS know that the Kennebec Community College is looking for a Soils 101 Instructor and would MAPSS be interested in collaborating with NRCS in providing something.

### **2018 BUSINESS MEETING, ENVIROTHON**

Dave Rocque provided an update about Envirothon stating how important it was for organizations like MAPSS to contribute since some big donors are no longer contributing. Dave Moyse made a motion to donate \$1500 to the Envirothon. Gary Fullerton seconded the motion. Some discussion ensued. A question was asked about why big donors have dropped out. Apparently, some donors, such as Poland Spring have been bought out by larger conglomerates and are no longer “local companies”. Corrine asked who oversees looking for donations. Dave said it is mostly SWCD employees. Corrine also mentioned that the Lever Foundation might be a potential donor and Dave asked for her to send him some information and he would pass it on.

Dale Brewer asked how long the Envirothon had existed. Dave stated approximately since 1990. Dave also mentioned that the Maine team did very well last year.

A vote was taken to accept the motion to donate \$1500. The motion passed with no nay votes.

### **2018 BUSINESS MEETING, ADOPTION OF NEW METHOD FOR IDENTIFYING HSG'S**

Dave Marceau put a proposal on the table for adopting the method of using the Rhode Island Triangle as a method for determining Hydrologic Soil Groups for small scale on site investigations. Larger scale projects would still defer to NRCS soil series and the table in the NRCS Engineering Handbook.

There was a concern that with the triangle there was no distinction between sandy wet soils versus wet clay soils and that they would both be put into HSG group D, while the Engineering handbook would put the sandy soil in group B.

Another concern was that the “table” (Table 7.1 from NRCS Engineering Handbook), sometimes puts soil series into group B or C when they should really be in D.



A couple of people mentioned there is a problem with the top part of the R.I. triangle in that it seems to sometimes put both moderately well drained and somewhat poorly drained soils both in to Group D and that is inconsistent with the “table”.

Tony made a motion that MAPSS use on-site designation of HSG for HISS mapping based on the R.I. triangle but modified with those less than 24” [to seasonal high water table or impermeable layer]. It was seconded by Rod Kelshaw. Andrew Carpenter asked who would make the modification? Dave Marceau stated that the triangle shouldn’t be just for HISS. There was some general dislike for this motion as stated. Tony rescinded his motion, Rod was fine with this.

Corinne Knapp made a motion that we accept the Rhode Island triangle as an option to use, with Table 7.1 from the Engineering Handbook also remaining an option. Dave Rocque seconded the motion. Dave Moyse stated that this establishes an additional standard of practice and allows for best professional judgment. A vote was taken. There was one nay vote, many yea votes. The motion passed.

Another motion was put on the floor that the MAPSS Technical Committee begin looking at adjusting the triangle to address some of the concerns in it’s deficiencies. The motion was seconded by Rod. The motion passed with no nays. Tony Jenkins agreed to be the chair of the Technical Committee.

#### **2018 BUSINESS MEETING, ELECTION OF OFFICERS:**

Election of Officers was presented by Anna Donohue. Sean Donohue was nominated as a Director. Roger St. Amand was nominated as Vice President, Corinne Knapp was nominated as Treasurer. No one wanted to take on Secretary, so Amy agree to stay on one more year. Dave Marceau also agreed to stay on as President. No other nominations were made. Anna put forth the slate of officers as: President, Dave Marceau; Vice President, Roger St. Amand; Treasurer, Corinne Knapp; Secretary, Amy Jones; Director, Sean Donohue. A motion was made to accept this slate of officers and seconded. The motion passed with no nay votes.

The meeting continued with several speakers/discussions:

- Andrew Hedrich, PE from Gartley and Dorsky Engineering and Survey provided a talk on the engineer’s perspective on the problems with treating stormwater, the importance of HSG’s, the problems with current stormwater permitting rules and the reasons why and how certain rule changes to stormwater buffers could improve buffer sizing and effectiveness.
- Dave Rocque, Maine State Soil Scientist discussed a proposed new methodology for determining stormwater buffers that he and others have been working on with the DEP.



- Bruce Hoskins from the University of Maine Analytical Lab and Soil Test Service provide information on what types of analysis can and are be done at the lab.
- A panel discussion with Unity College students on Soil Science jobs.
- Andrew Carpenter, from Northern Tilth, discussed Nutrient Management Plans—how they are made and what they are used for.

Meeting adjourned at 4:00 p.m.

Respectfully Submitted,  
Amy Jones, Secretary

### **TREASURER'S REPORT FOR 2018**

**Beginning balance \$ 8,173.94**

#### **Deposits**

Late membership \$25.00  
Workshop \$305.00

#### **Expenses**

Postage reimbursement Don Phillips \$7.25  
Credit card reimbursement Corinne Knapp Web Site \$ 126.00  
Speed soft .com \$18.95

Ending Balance \$ 8,351.74

The outgoing treasurer had paid the expenses of the 2018 meeting before I took over the account

Those expenses were as follows:

Emily McDonald Scholarship \$1000 dollars  
Envirothon \$1,500 dollars  
Unity College \$635.31  
Dave Marceau meeting copies \$600.43

I am not sure what interest rates are these days or if it is worth the time to investigate a Savings Account. MAPSS carries a large balance in this account seems like we should be making interest on it. Would welcome thoughts or discussion at the upcoming spring meeting.

Sincerely

**Corinne Knapp, ME Certified Soil Scientist / Site Evaluator**  
**P.O. Box 324 , Monson, ME**  
**207-997-7058**



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## AN OPINION FROM OUR EDUCATION CHAIR

Michael Jakubowski, Sebago Technics

I believe that MAPSS should consider redefining the scope of the Janet Engle Cormier Soil Science Scholarship to more resemble that of a grant. Applicants would submit grant proposals detailing itemized budgets instead of individual applications. This could apply to either research or conference attendance costs. I see a few benefits to this approach:

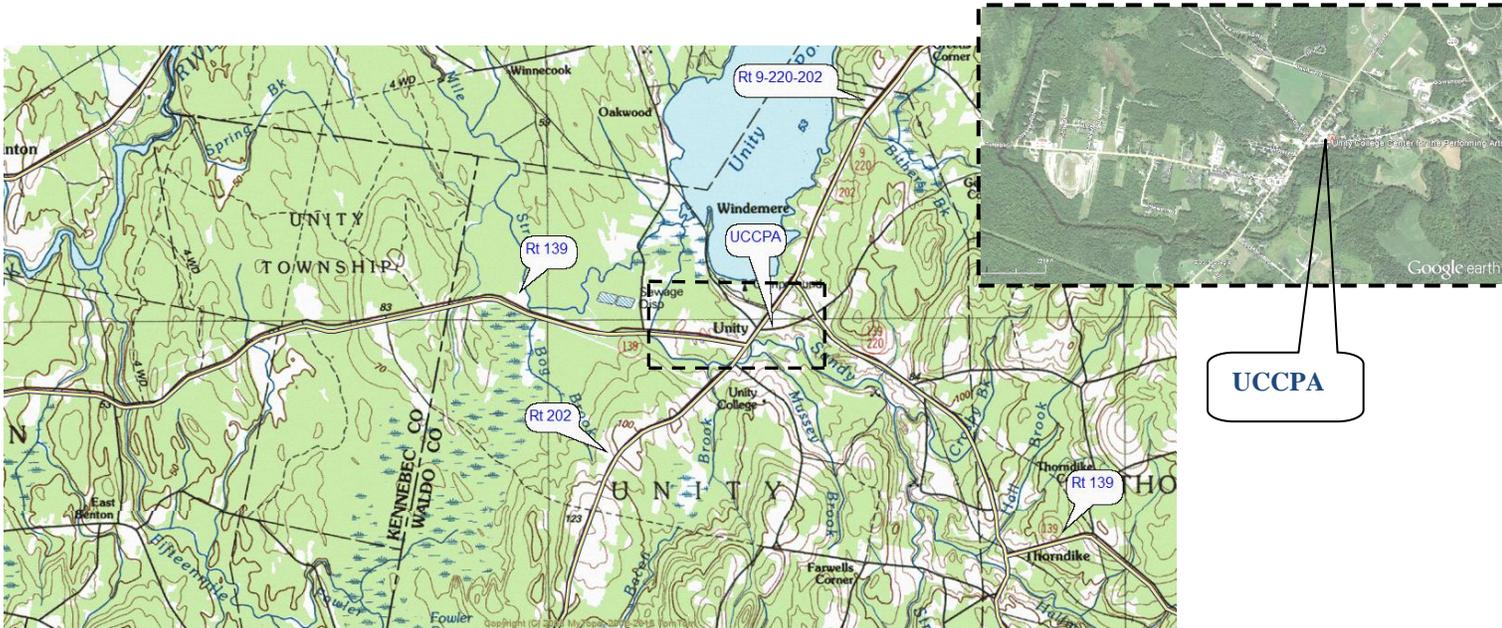
1. MAPSS becomes more directly involved in supporting soils research across Maine. Currently, scholarship recipients spend funds at their discretion. This approach would keep MAPSS informed on how funding directly contributes to the recipient's scientific endeavors.
2. MAPSS gains increased visibility through funding accreditation and/or acknowledgements in professional presentations and/or publications. This would serve to elevate MAPSS in the broader scientific community.
3. Recipients conducting research in soil science may have an increased likelihood of becoming part of the MAPSS community, as an introduction to their research topic goes a long way towards feeling welcomed and successfully networking.
4. Being awarded a grant may be a better resume "fluffer" for our recipients and may better contribute to their careers.
5. In my experience as a Graduate Student at the University of Maine, grants are not typically presented in-person, so attendance at an award ceremony would no longer be necessary. This means that MAPSS could reach out to more institutions across the state, increasing our pool of applicants.

This approach may prove challenging, however. For example, reviewing grant proposals is more time-consuming than reviewing scholarship applications and the logistics behind how funds are applied (reimbursed, forwarded invoice, etc.) would need to be examined, but I feel that there is much to gain with this approach.

Mike Jakubowski  
Education Committee Chair

Michael D. Jakubowski, LSE Environmental Scientist  
Office: 207.200.2100 | Direct: 207.200.2052  
75 John Roberts Rd., Suite 4A, South Portland, ME 04106

**SITE LOCATION MAP FOR ANNUAL MEETING**



**SLATE OF MAPSS OFFICERS: 2018 AND TENTATIVE CANDIDATES FOR 2019 -2020**

**2017-2018 EXEC COMMITTEE**

**President** – David Marceau  
**Vice President** – Roger St. Amand  
**Past President** – Donald Phillips  
**Treasurer** – Corinne Knapp  
**Secretary** – Amy Jones  
**Director** – Sean Donohue

**2017-2018 COMMITTEE CHAIRS**

**Technical Chair** – Tony Jenkins  
**Webmaster** – Matt Dorman  
**Newsletter** – Don Phillips / Kaizad Patel  
**Education** – Mike Jakubowski  
**State of Maine Liaison** – David Rocque  
**University of Maine, Orono, Liaison** – Ivan Fernandez  
**USDA NRCS Liaison** – Lindsay Hodgman

**TENTATIVE CANDIDATES FOR  
2019 / 2020 EXEC COMMITTEE**

**President** – Chris Dorion  
**Vice President** – Roger St. Amand  
**Past President** – David Marceau  
**Treasurer** – Gary Fullerton  
**Secretary** – TBD  
**Director** – Sean Donohue

**TENTATIVE CANDIDATES FOR  
2019-2020 COMMITTEE CHAIRS**

**Technical Chair** – Tony Jenkins ??  
**Webmaster** – Matt Dorman ??  
**Newsletter** – Don Phillips  
**Education** – Mike Jakubowski ??  
**State of Maine Liaison** – David Rocque  
**University of Maine, Orono, Liaison** – Ivan Fernandez  
**USDA NRCS Liaison** – Lindsay Hodgman



**2019 ANNUAL MEETING PROGRAM AGENDA**  
Unity College Center For The Performing Arts, Unity, Maine  
March 13, 2019

8:00 - 8:30 **REGISTRATION** (coffee and pastries provided)

8:30 – 8:50 **INTRODUCTION/WELCOME**

*David Marceau President of MAPSS and Dr. Michael Evans, Provost and VP for Academic Affairs*

8:50 – 10:50 **BUSINESS MEETING** (Moderated by David Marceau)

- Treasurer's Report – *Corinne Knapp*
- Secretary's Report – *Amy Jones*
- NRCS Update\_ *Tony Jenkins*
- UMaine Update – *Ivan Fernandez*
- Envirothon Update – *Dave Rocque*
- MAWS Update – Rod Kelshaw or TBD
- Education Committee and JEC Scholarship Award Winner(s) Mike Jakubowski
- Potential Partnership SSSNNE
- Election of Officers – Nominating Committee

10:50 – 11:15 **BREAK**

11:15 – 12:00 *Tony Jenkins NRSC State Soil Scientist: A Proposed New Methodology for Identifying Hydrologic Soil Groups in Maine.*

12:00 - 1:00 **BUFFET LUNCH** (SANDWICHES, BEVERAGE, AND CHOWDER)

1:00 - 1:45 *Chris Halstead or TBA: US Geological Survey Office of GIS: Techniques for Soil Scientists to Acquire Data*

1:45 – 2:30 *Greg McDonald or TBA University of Maine at Orono : Effects of Phosphorous Related Runoff from the Aroostook River*

2:30 – 3:00 **BREAK**

2:45 - 3:30 *Dave Rocque, Department of Agriculture and Forestry Resources State of Maine Soil Scientist: A Proposed Method of Identifying Vegetative Stormwater Buffers.*

Maine Licensed Site Evaluators will be awarded 6 professional development hours for full day attendance



**2019 ANNUAL MEETING REGISTRATION\***

Wednesday March 13, 2019

Unity College Center for the Performing Arts, Unity, Maine

[www.mapss.org](http://www.mapss.org)

Name: \_\_\_\_\_

Company or Affiliation: \_\_\_\_\_

Address: \_\_\_\_\_

Work Phone: \_\_\_\_\_ Cell Phone: \_\_\_\_\_

Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

Are you a Maine Certified Soil Scientist? \_\_\_\_\_ If yes, License #: \_\_\_\_\_

Are you a USDA-NRCS Soil Scientist? \_\_\_\_\_ If yes, how many years in Maine? \_\_\_\_\_

Are you SSSA Certified? \_\_\_\_\_ APSS \_\_\_\_\_ CPSS \_\_\_\_\_ Certification #: \_\_\_\_\_

**Membership Dues:** \_\_\_\_\_

\*Full Members - **\$25** Associate Members - **\$15** Students - **Free**

\*Full members must be Certified Soil Scientists in Maine, NRCS Soil Scientists working in Maine for at least 3 years, or have taught collegiate courses in soil science in Maine and been an associate member for at least 3 years.

**Registration Fee:** \_\_\_\_\_ *Note: Registration deadline is Friday, March 01, 2019*

Full and Associate Members - **\$40** Non-members - **\$50**

Students - **Free** for just the meeting (no lunch) / **\$15** (including lunch)

(add **\$10** if registering at the door; lunch will not be guaranteed)

**Total Amount Enclosed:** \_\_\_\_\_

Please submit form and check made payable to **MAPSS** and mail to:

Gary Fullerton  
104 Millturn Road  
Limington, ME 04049

for more information: [www.mapss.org](http://www.mapss.org)

[gfullerton@sebagotechnics.com](mailto:gfullerton@sebagotechnics.com)

Note: CEUs pending for Maine Licensed Site Evaluators and New Hampshire licensed wetland scientists