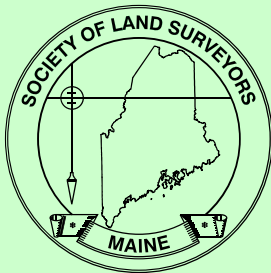




## MSLS Contact Information

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vicepresident@msls.org	
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treasurer@msls.org	
Peter Belanger, Director At Large	666-8083
Jeremiah Raitt, Director At Large	841-0056
Stuart Davis, Androscoggin	240-0049
Kilburn Swallow, Crown of Maine	532-7313
Wayne Wood, Narragansett	657-3330
William Coombs, Pejepscot	833-6276
Andy Brown, Penobscot	852-2639
Stephen Gould, Somerset	474-6223
John Lloyd, NSPS Director	978-563-1793
John Lloyd, Scholarship Committee	978-563-1793
William Saucier, Historical Committee	786-4392
Matthew Ek, Membership Committee	200-2058
Michael Cyr, Baseline Monumentation	728-6028
Donald Richards, Case Law Update	594-4934
Greg Copeland, Immediate Past President	282-4972
William Shippen, Legislative Committee	737-9015
Daniel Bernier, Esq., Legislative Monitor	877-8969
Bruce Bourgoine, Executive Director	882-5200
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**FieldNotes** welcomes contributions from members. Submit original manuscripts or articles to [editor@msls.org](mailto:editor@msls.org). Hi-res photos in jpeg form are welcome too. Include your name and identify the picture and all persons in the photo. MSLS assumes no responsibility for statements made or expressed in this publication.

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Maine Society of Land Surveyors  
P.O. Box 420  
Readfield, Me 04355

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## Executive Committee Meeting Minutes

Goodwill-Hinckley School – Fairfield, Maine  
October 20, 2016

### Members Present

Officers -	
President	Keith Morse
Vice President	Bill Shippen
Secretary	Kevin Farrar
Treasurer	George Bouchles
Directors -	
Androscoggin	Stuart Davis
Narragansett	Bill Shippen (proxy)
Somerset	Steve Gould
At Large	Pete Belanger
Past President	Greg Copeland
Others -	
Executive Director	Bruce Bourgoine
Director to NSPS	Steve Gould (proxy)

Meeting was held at Goodwill Hinckley School in Fairfield. The meeting was called to order by President Morse at 3:50. He then asked for agenda additions. It was decided to have an abbreviated meeting as the Chapter and committee reports were given Fall Business Meeting

**Legislative Report** – (William Shippen) – The legislature is out of session until January and there is nothing new to report.

**Secretary Report** (Kevin Farrar) – The minutes of the September 14<sup>th</sup> ExCom meeting at Joshua's Tavern in Brunswick were accepted as printed. It was moved by Karl Olson, seconded by William Coombs and passed unanimously.

**Treasurer's Report** (George Bouchles) – George submitted a written report summarized below. The checking account contains \$19,520.98 as of yesterday. The scholarship investment fund stands at \$102,637.00, a gain of \$996.60 in the last month. It was moved to accept the report by Coombs, seconded by Shippen, passed unanimously.

**Executive Dir. Report** (Bruce Bourgoine) – Bruce's written report is below.

To: *MSLS Executive Committee*  
From: *Bruce Bourgoine, Executive Director*  
Regarding: *August Report*  
*October 19, 2016*

*Here are the items focused upon during September:*

- *Fall Meeting initial preparation*
- *Routine matters of ExCom meeting preparation, deposits, broadcast e-mails, website updates, and handling external and member communications as required*

*Looking ahead, the following items will be of intermediate focus:*

- *Annual Meeting planning*
- *Scholarship Committee support*

*As always, I appreciate your feedback to help me meet the Society's aims.*

**Membership Committee** (Matt Ek) – Bruce’s membership report is below.

*Membership Sept 2016 Report*

		Sept	Aug	+/-
AS	Associate	24	24	0
CH	Charter	1	1	0
CO	Complimentary	5	5	0
HO	Honorary	4	4	0
LC	Life Charter	6	6	0
LF	Life	9	9	0
MB	Regular	180	180	0
OC	Out of State Charter	1	1	0
OR	Out of State Retired	0	0	0
OS	Out of State	23	23	0
RC	Retired Charter	6	6	0
RT	Retired	30	30	0
ST	Student	12	12	0
SU	Sustaining	5	5	0
		-----		
		306	306	0



**Liaison Committees** – All committee reports are part of the MSLS fall business meeting minutes. The only additional discussion pertained to the CMCC survey program start up attempt. As discussed earlier in the day, CMCC had to cancel the surveying certificate program as only two students signed up. They may try to restart the program in the spring. The conversation turned toward ideas of how to recruit people to study in surveying, work on field crews and enter our profession. Some discussion centered on developing a “menu” to present to guidance counselors of videos pamphlets and brochures.

**Unfinished Business** – Earlier in the day, at the Fall General Membership Meeting, one member asked about licensing standards for surveyors entering retirement. There was some question about what the driving force behind the question. If it’s a problem with the fee, that’s one thing. If it’s a problem with the work requirement within the statutes, that’s another.

**New Business** – Next ExCom meeting date – November 9<sup>th</sup> Joshua’s Tavern Contract for Speaker at MSLS Annual Meeting. John Lloyd is seeking permission to proceed with a contract for our speaker. Karl made the motion to proceed with the base fee plus expenses option, seconded and passed unanimously.

**Consent Agenda**

	<i>October 21, 2016</i>	
<b>From Whom</b>	<b>MSLS Committee</b>	<b>Amount</b>
Bruce Bourgoine	Executive Dir. Expenses ~ Sept.	\$66.54
Bruce Bourgoine	Executive Dir. Services ~ Sept.	\$850.00
Bruce Bourgoine	FieldNotes – publisher	\$300.00
Bruce Bourgoine	Reimbursement – Mtg. gifts	\$200.00
US Cellular	Cell Service	\$50.00
USPS	PO Box Annual Rental	\$69.00
Winthrop Self Storage	Annual Rental	\$428.40
Copy Shop	Fieldnotes & Fall mtg	\$892.37
Good Will-Hinkley School	Meeting Site Rental	\$375.00
<b>Total</b>		<b>\$3,231.31</b>

Additions made at meeting –

<i>Eric's Restaurant</i>	<i>Catering, fall meeting</i>	<i>\$1,222.06</i>
<i>Stephen Gould</i>	<i>Reimbursement – break snacks</i>	<i>\$347.46</i>
<i>Marie Lougee</i>	<i>Reimbursement – break snacks</i>	<i>\$31.57</i>
<i>Dale Perkins</i>	<i>Sound System Rental</i>	<i>\$150.00</i>
<i>Garth McNally</i>	<i>Refund</i>	<i>\$195.00</i>
<i>Keith Morse</i>	<i>Travel reimbursement</i>	<i>\$273.28</i>
<i>Harmony Fire Department</i>		<i>\$48.00</i>
<b>Total after additions</b>		<b>\$5498.68</b>

It was moved to accept the Consent Agenda by Karl Olson, seconded by Bill Shippen and passed unanimously.

It was moved to approve Charlie Hildebrant as a student member of the society, seconded and passed unanimously.

Moved to adjourn at 4:19, seconded and passed unanimously.

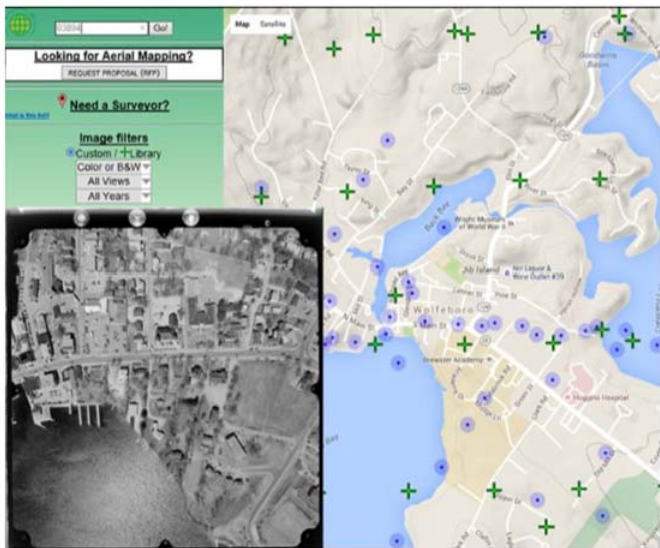
Respectfully Submitted  
**DRAFT**  
 Kevin Farrar – MSLS



*aerial mapping - online imagery*

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Sustaining Member



*Continued from the front page.*



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Ambridge, PA.*

Fortunately, most surveying instruments these days have been designed with the aforementioned hazards in mind, and knowing both the operational temperature range and environmental rating can go a long way towards avoiding some of winter's headaches. Furthermore, just as the surveyor requires time to acclimate, so too does the instrument being used. An example would be the case of condensation on internal optics, which can paralyze an instrument. In such an instance, simply letting the instrument acclimate may be all that is needed to restore its functionality. A little common-sense can increase the performance of surveying equipment as well, such as limiting its exposure to precipitation and storing it in a dry carrying case as close to room-temperature as possible. There's also no substitute for yearly preventative maintenance by a certified, professional service center to ensure operational performance and accuracy.

Preparing for winter surveying is more about equipment-familiarity and best-practices than anything. It also helps, as with any surveying instrument, to have a firm grasp of the accuracy requirements in relation to the capabilities of the instruments being used. For some surveyors, the added satellite signal strength and visual target clarity, as well as consistent weather patterns, make winter one of their favorite times to work. By far, the biggest concern is related to temperature, whether it be extreme cold that pushes past the operating limits of a surveyor's instrument or mechanical and environmental fluctuations that can affect the precision of work being done. Understanding the performance specifications of the equipment being used, routine maintenance, and a few good habits can make winter surveying your most productive time of year!

*Please turn to page 6*

## Your deadlines <sup>are</sup> our deadlines



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## Summary of Winter Surveying Tips

- Batteries will lose charge faster in cold weather. Have extra batteries on hand, external power, or an inverter in the survey vehicle to power chargers. Most survey gear will have the capability to use an external power source. Check the owner's manual or with your local survey equipment dealer for external power recommendations.
- Input proper temperature and pressure for EDM measurements. It is not uncommon for temperatures to change by 40 or 50 degrees in a day and the barometric pressure to fluctuate with weather changes. These changes can cause EDM corrections of 40 parts per million (ppm) or more. That is a correction of 0.04 feet in a 1000 foot measurement.
- Modern electronic total stations have field calibration routines for Horizontal and Vertical collimation, compensator calibrations, and may also have tracker collimation routines (for robotic instruments). These routines should be performed regularly and many manufacturers recommend the field calibration routines be performed when the temperature changes by more than 20 degrees Fahrenheit.
- Allow your instrument to acclimate to the environment before taking measurements. Do not take an instrument directly from a warm office or vehicle, set it up, and immediately begin taking measurements in cold weather. Allow the instrument to acclimate to the outdoor temperature.
- Never put a cold instrument back in a sealed case and leave it overnight in a warm office without opening the case to prevent moisture and condensation from affecting the instrument.
- Use best GNSS practices when working in tree cover. Although it is easier to obtain a GNSS solution with the leaves off, tree branches still cause multipath errors. Use appropriate occupation times and measure critical points more than once at different times of the day and check for repeatability whenever possible.
- Dress properly and stay safe!



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Please email cover letter and resume to [jswan@owenhaskell.com](mailto:jswan@owenhaskell.com)

# MSLS 2016 Fall Meeting Minutes

Good-Will Hinckley School - Fairfield, Maine

October 21, 2016

## Officers Present:

President	Keith Morse
Vice President	Bill Shippen
Treasurer	George Bouchles
Secretary	Kevin Farrar

Meeting was called to order at 1:05. President Morse thanked those in attendance and the Somerset Chapter for organizing the meeting.

**Secretary's Report** (Kevin Farrar) – The minutes from the 2016 MSLS Spring Annual Business Meeting, held on April 15th at the Ramada Inn Conference Center in Lewiston are on pages 4-7 in the meeting book. Hearing no revisions, it was moved to accept the minutes by Arthur Montana, seconded by Bruce Martinson and passed unanimously.

**Treasurer's Report** (George Bouchles) – George outlined his report which was emailed to members of the Executive Committee and prepared as a hand out at the meeting. The scholarship investment fund contains \$102,637.00, which is an increase of \$996.60 since last month. The checking account contains \$19,520.98 as of today. George said that the budget looks pretty much in-line with spending so far this year. President Morse commented on the value of the scholarship being over the long ago set goal of \$100,000. It was moved to accept the Treasurer's Report by Greg Copeland, seconded by Bill Saucier, passed unanimously. The written report is summarized below:

### *Summary Treasurer's Report – January 1 through October 20, 2016*

<i>Income</i>	
<i>Annual Dues</i>	\$34,267.50
<i>Miscellaneous</i>	\$9,971.50
<i>Program revenue</i>	\$35,069.28
-----	
<i>Total Income</i>	\$79,308.28
<i>Expenses</i>	
<i>Administrative</i>	\$28,588.35
<i>Program Expenses</i>	\$25,881.58
<i>Public Relations</i>	\$1,022.97
<i>Publications</i>	\$3,281.75
-----	
<i>Total Expenses</i>	\$58,774.65
-----	
<i>Net Income</i>	\$20,533.63

**Executive Director's Report** (Bruce Bourgoine) – Bruce did not have a report in the book. He said that his monthly reports are in FieldNotes. He encouraged anyone with any questions or requests to contact him. He said it's been a fairly quiet summer but that will change as annual meeting preparations begin.

**Nominating Committee** (Greg Copeland) – Greg said that he is seeking members willing to be candidates to fill out our ballot. NSPS Director, MSLS Vice President and Director at Large are the positions which we will have openings.

**Membership Committee** (Matt Ek) – No report.

## **Liaison Committees**

**Board of Licensure** (Bill Shippen) – The next Board meeting is Tuesday.

**NSPS** (John Lloyd, Director) – John could not make the meeting. He emailed the following as his report.

*I just returned from the Fall Business Meetings in Arizona. I have started putting together my full-length Meeting Report and will have it finalized after I received the official meeting minutes. I will pass along a few highlights.*

*The NSPS Joint Government Affairs Committee continues to represent surveyors in Washington. With all the activity on UAV/UAS (drones) the past year, we are now monitoring draft "best practice" guidelines that are being prepared for use by state legislatures to deal with drones. We need to make sure that these guidelines do not limit the ability of surveyors to use this new tool.*

*On another note, the NGS 2022 datum is getting closer and all state societies are encouraged to prepare to work with their state legislatures to ease the transition. The NSPS Spring Meetings will be held in Silver Spring, Maryland in March 2017. The NSPS Student Competition will take place on Monday March 13, 2017 at that location. The topic will be High Precision Vertical Control Applications. NSPS Capital Hill (Lobby) Day will take place on Wednesday March 15, 2017. The NSPS Board of Directors Meeting will be Friday March 17, 2017.*

**UMO/SVT** (Stephen Gould) – No report from Steve on the UMO program. President Morse said that Central Maine Community College had hoped to start a survey certificate program this fall. They only had 2 students sign up and had to cancel the program. They may try again in the spring or next fall. Keith said that he thinks MSLS needs to help promote the program. Employees and children/relatives of members may be a good source to get this program kick started and running.

**GIS** (Levi Ladd) – Greg Copeland said that the bids for aerial surveying in the spring have just come in. They will be flying in the southern part of the state.

**MDOT** (Peter Belanger) – Peter said that the MDOT website now has online access to all right of way maps. It is GIS based and doesn't work easily for first time users. Peter said that phone calls to the Right of Way division to get plans are still an option that many use.

**Publications Committee –**

**FieldNotes** (Bruce Bourgoine) – Bruce said that he is always looking for content and encouraged people to send him links to survey related stories, requests and articles.

**MSLS Website** (Bruce Bourgoine) – Bruce said that the list of names of members on the MSLS website can be altered to include a link to your work email. Arthur Montana asked if a list or links to information for upcoming events could be more up to date.

**Education Committee** (Deborah Briggs) – No report.

**TrigStar** (John Schwanda) – No report.

**Scholarship Committee** (John Lloyd) – John emailed the following as his report.

*The scholarship applications were distributed last week to the usual schools. If any MSLS member knows of a student who would like to fill out an application, they should contact Bruce Bourgoine or myself. We can make sure they have a copy of the most current application.*

**Historical Committee** (Bill Saucier) – The below report is also on page 8 of the meeting book.

*HISTORICAL COMMITTEE  
FALL 2016 MEETING REPORT*

*Bruce has now setup a Historical Committee page on the MSLS web site. It is under RESOURCES then you click on the (Historical Information Resources Page). The Historical Log in Excel format and the Sandy River & Rangeley Lake RR plans are now listed. I hope to be listing more information in the near future.*

*I am still maintaining the Historical Log of plans and other surveying information around the state. This will be an ongoing project with all new information being added to the Log as it's received. I have the information available to members on a web page under the Historical Committee. It is tabulated in an EXCEL program format.*

*Respectfully Submitted,*

*William R. Saucier P.L.S. - Historical Committee*

**Legislative Committee** – Dan Bernier said that the Legislature is out of session. He made mention of the list of bills we followed last year as being one of the shortest lists we've had a long while. Dan added that he thinks there will be some proposed legislation on drones. He said that will be handled on a federal level but groups that are displeased with that legislation will likely approach the state with legislation either override or strengthen the federal legislation.

**ByLaws Committee** – Greg Copeland has prepared a first draft rewording for some of the MSLS bylaws. Some proposed revisions account for things like technology (electronic balloting) that were not considered when the bylaws were written.

**Program Committee** (John Lloyd/Steve Gould) – Bruce Bourgoine said that this will be our 50<sup>th</sup> anniversary meeting and it will be held at the Samoset. He said that it will be a Friday/Saturday and we are encouraging spouses to attend. The feature speaker will be Tony Nettleman.

**Scholarship Committee** – The application is now available online. President Morse mentioned that potential students of a program at CMCC would be eligible. There was some discussion from members about whether incoming freshmen are eligible. George Bouchles looked up and read the policy stating that applicants need to be "full time students".



## Chapter Reports

Androscoggin Chapter (Stuart Davis) – The following report is on page 9 of the meeting book.

### *Recent Meetings:*

*September 20, 2016 – Meeting at Gritty's Pub – Auburn, Maine*

*6 Members present: No speaker.*

*Developed list of potential speakers for up coming meetings.*

### *Androscoggin Chapter Slate of Officers 2016:*

*President: Nathan Martin - Sec/Treas: Stuart Davis - Director: Stuart Davis*

### *Next Meetings:*

*October 25, 2016 – At Gritty's Pub in Auburn*

*Speaker: Stuart MacDonald MTS – New Equipment Demos*

*November 22, 2016 - – At Gritty's Pub in Auburn*

*Speaker: Jon Giles – Sebago Tech. – MEGIS Assessing Data*

*December 20, 2016 – Chapter Annual Christmas Dinner*

*Venue to be determined.*

Narragansett Chapter (Wayne Wood) – The following report was prepared as a handout at the meeting.

### *Narragansett Chapter Fall Report*

*Maine Society of Land Surveyors*

*October 17, 2016*

*The Narragansett Chapter has held three meetings since the MSLS Spring Meeting in April. On Tuesday, April 19th, Jennie Franceschi PE, Director of Planning and Code Enforcement at City of Westbrook, attended the meeting to address City survey related requirements and City engineering archives. 7 members were present. Thursday, May 26th, Benjamin Richards from The People's Geek, presented "How to clone your hard drive and get your CAD passkey" and discussed issues with upgrading to Windows 10. 8 members were present. Wednesday, September 28th, Richard Eaton, PLS spoke about the City of Portland's, Boundary Survey Requirements and Level I, II, & III Site Plans. 8 members were present.*

*On September 1st, the Narragansett Chapter was contacted by Cathy Farthing Streifel, sister of Jason Farthing, PLS and daughter of Robert Farthing, PLS, with information regarding an American Foundation for Suicide Prevention (AFSP) awareness walk, "Out of the Darkness Biddeford/Scarborough ME", on September 25th. The Narragansett Chapter made a contribution in memory of Jason Farthing and recommend visiting the AFSP website for more information.*

*The next Chapter meeting is to be determined. Please visit the Chapter website at [www.narragansettsurveyors.org](http://www.narragansettsurveyors.org) for updates and events.*

*Respectfully submitted,*

*Mark Carpenter, PLS, CFM - Chapter Secretary*

Crown of Maine (Kip Swallow) – No report.

MidCoast – The Chapter has resumed regular meetings after a short summer break. The Chapter meets regularly on the second Friday of each month.

Pejepscot – At the last meeting, John Schwanda gave a presentation on the history of surveying in Portland.

Penobscot Hancock – No report. The Chapter held a well attended meeting featuring a presentation on the use of drones for surveying.

Somerset – The Chapter has been working to prepare today's meeting.

**Unfinished Business** – None.

**New Business** – One question that came up was if there is any notice to high schools about MSLS scholarship availability. Another member commented that applicants must currently be enrolled in order to be eligible. One former scholarship recipient said that he appreciates the way our scholarship eligibility is set up. He likes that it is based on being seriously interested in surveying and yet, it is flexible enough that it can be awarded to a "non-traditional" student.

One member asked if there is a "retired" status for land surveying licensees. That question was directed to the board of licensure.

Motion to adjourned at 1:36, seconded and Passed, meeting adjourned.

Respectfully submitted - Kevin Farrar, MSLS Secretary

# Calendar Notes...

- **MSLS ExCom, December 14, at 6:00 PM**  
Joshua's Tavern, Brunswick, Maine
- **SAVE THE DATE!**  
**MSLS 50th Annual Meeting - January 27 & 28, 2017**  
The Samoset Resort, Rockland, Maine, details soon!

Send your Calendar Notes to: [director@msls.org](mailto:director@msls.org)

## The Parting Shot...



Presentation at the 2016 MSLS Fall Meeting at Good Will-Hinckley School, Fairfield, photo by Steve Gould.

“**The Parting Shot**” appears in place of where mailing information is located on postal mailed copies and is a little extra something for email recipients. Email your interesting surveying or Maine “Parting Shot” to [editor@msls.org](mailto:editor@msls.org)!