

THE
INFORMANT

NEWSLETTER OF THE MAINE SECTION ASCE

February 2019



From the Editor:

As 2019 continues to roll on, we hope to keep you involved with the Maine Section as much as possible. We hosted our largest meeting for the year to date, last week, and hope to keep that momentum!

Per usual I am looking for volunteers for Badge Day! If you enjoy the outdoors you can take your valentine to Ski Day or for a nice skate at Thompsons Point courtesy of the Maine Section.

If you have ideas, suggestions, questions, etc. please feel free to contact us at Informant@maineASCE.com.



I hope to see you soon!

Heather

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Maine Section ASCE - Save the Date(s)

February 2019

					1	2 Happy Groundhog Day! 
3	4	5	6	7	8	9 Ski Day w/Students
10	11	12	13	14 Skate Night! 	15	16 Badge Day
17	18	19	20	21	22	23
24	25	26	27	28 Monthly Meeting		



President's Message

I want to thank everyone that came out to our January meeting at DiMillo's. We had nearly 100 people at the meeting and it was great to see all the new and familiar faces. Thanks again to WTS for co-sponsoring the meeting with us and thanks to our speakers Bruce Van Note, Kristi Van Ooyen P.E., and Dale Mitchell P.E.

In January the Maine Section of ASCE along with representatives from ACEC, SEAM, and MeSPE meet with the State Board of Licensure for Professional Engineers to review and discuss proposed revisions to Title 32 Ch. 19. The proposed revisions can be viewed at www.maine.gov/professionalengineers/. I want to thank the PE Board for allowing us the opportunity to review the proposed changes and to meet with them. Most of the changes that are being proposed are relatively minor and did not require a significant amount of discussion amongst the group. In general, the group of engineering organizations was in support of the changes that are being proposed.

There were a couple of topics that did require a lengthier discussion:

- The first was around temporary licensure. Under the current statute if an out of state engineer wishes they can obtain a temporary license to practice for up to 30 consecutive days each calendar year, if they are licensed in another state. After a lot of discussion amongst the board and the various engineering groups the PE Board has decided to remove this provision. It affects a very small percent of people and most projects take longer than 30 days to complete.
- The second was the use of the word "engineer" and its use in things like job titles. Historically the PE Board's position has been that if you are not a licensed professional engineer you should not use titles like Civil Engineer on your business card or in email signatures. Several engineers from local firms were present at the meeting to discuss this issue. At the meeting it was decided that if you are graduate from an engineering program and are working under a licensed professional you can use the word engineer in your job title. This is more of a policy change for the PE Board and will not require any changes to the existing statute.

We have some great events planned again for February starting off with our annual ski day with the Umaine Student Chapter on Saturday, February 9th. I've been going since we started the program a few years ago and it's a great opportunity to interact with the students in an environment that's less stressful for them. The Younger Members Group will also be hosting a skate night later this month that should be a lot of fun. We will also be joined by Advanced Infrastructure Technologies at our Monthly Meeting in Lewiston.

I hope to see you at one of our upcoming events.

Lucas Stiles, P.E.

Maine Section ASCE President





Maine Section ASCE Meeting

Composite Tub Girders –

Bridging the gap between new materials and an age old profession

Tim Kenerson, P.E. of Advanced Infrastructure Technologies, LLC

Anthony Diba of University of Maine Advanced Structures and Composite Center

Thursday, February 28, 2019

Location:

Davinci's Italian Eatery
150 Mill Street
Lewiston, ME 04240

Please join the Maine section of ASCE as Tim Kenerson and Anthony Diba present on the research and development of a new Composite Tub Girder system for use in short to medium span bridges. Follow the journey from concept to pilot project over a short period of two years as they explain the advantages of this new system and how it differs from other composite solutions in the market today. Mr. Diba will present his research and findings and how that enabled AIT to secure a pilot project set to be constructed later this year. Mr. Kenerson will present some of the details and unique benefits of this long-lasting, low maintenance system.

Anthony Diba is a Graduate Research Assistant and Master's Student at the University of Maine Advanced Structures and Composite Center with a Bachelor's of Science in Mechanical Engineering from University of Balamand in Lebanon.

Tim Kenerson is the Senior Design Engineer at Advanced Infrastructure Technologies and has nearly 10 years of experience designing composite bridges. He has been principal designer of more than 15 buried Composite Arch Bridges and is well versed in the fabrication of these composite members. He is a graduate of the University of Maine and a registered Professional Engineer

Schedule:

4:30 - 5:30 Board Meeting
5:00 - 6:00 Registration, Social Hour
6:00 – 6:45 Dinner
6:45 - 7:45 Presentation

Price:

___ \$35 ASCE Members before RSVP (February 22)
___ \$45 Non Members and Members after RSVP
___ \$25 Government Employees
___ \$10 Students
___ \$0 Life Members

Make checks payable to: **Maine Section ASCE**

We reserve the right to invoice no-shows.

Name: _____

Life Member: _____ Yes _____ No

Organization: _____

**Now Accepting Credit Card
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RSVP By February 22!

Earn 1 PDH!

To Register or for more information, contact Dan Bouchard (ASCE Maine Section Vice President)

- Email: dbouchard@louisberger.com



Ski Day at Sugarloaf with UMaine Students! SATURDAY, FEBRUARY 9, 2019!



Prices: \$50 ASCE Student Members (\$35 if 18 & under)
 \$65 ASCE Members
 \$67 Non-Member (ages 19 & up) \$52 Non-Member ticket (ages 6-18)
 \$18 ASCE Students @ Outdoor Center (Nordic ski, snowshoe, ice skate)
 \$30 ASCE Members @ Outdoor Center

All day alpine ski/snowboard rentals available for \$30 and helmet rentals for \$8
 Equipment rentals also available at the Sugarloaf Outdoor Center

The following group rate lessons are also available

Learn to Ski or Snowboard: \$50 (includes learning area lift ticket, rentals and a clinic)
 Learn to Ski Step 2: \$60 (includes mid-mountain lift ticket, rentals and a group clinic)
 Perfect Turn Clinics: \$30 (90-minute lesson, different levels available)

Come join ASCE for a fun day of skiing! Lunch at the Sugarloaf Inn, catered by the Shipyard Brewhaus, is included in the ticket prices for ASCE members (students & Maine section). If you are a guest and interested in joining ASCE for lunch, it will be an additional \$10. Please RSVP by February 5th to Esther Bizier (esther@main-landdci.com, 931-8484).

**Please be prepared to pay by cash or check the day of the event BEFORE receiving your ticket.
 Friends and family are welcome – the more the merrier!**





Maine Section February 2019 Newsletter



VOLUNTEER FOR
ASCE'S ANNUAL
ENGINEERING BADGE DAY

(For Boy Scouts & Webelos)



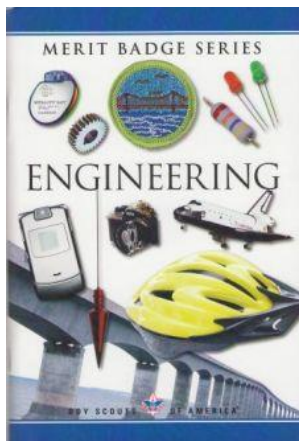
BOY SCOUTS OF AMERICA

We need at least 12 adult volunteers to make this event a success. No prior experience necessary!! We will even provide coffee and breakfast treats! If interested please contact Heather Hayes at heather.hayes@sewall.com by February 12th!

Woodard & Curran
 41 Hutchins Drive, Portland, ME
Saturday, February 16, 2019
9:00am-12:00pm

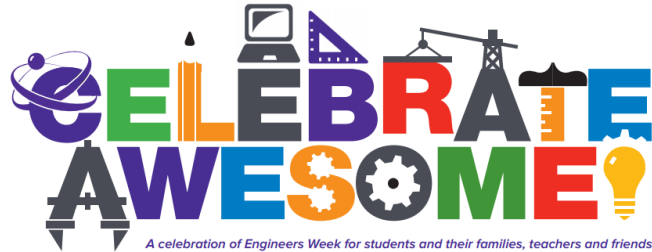
Activities to include:

- Build (AND SMASH) Model Bridges!
- Create and fix Traffic Jams!
- Filter Drinking Water!
- Meet Civil Engineers and learn about what we do!





Help ASCE at the Engineering EXPO!



This year's EXPO is at **USM in Gorham on Saturday March 2nd**. We'll be setting up in the Field House at **7:00 AM**, and the EXPO runs from **9:00 AM to 2:00 PM**. The event is expected to bring in over **2,000** attendees this year!

ASCE will have a couple of interactive activities for kids, and we need lots of people to help and talk with kids and parents about engineering.

If you can't stay the whole day, that's OK, come help when you can!

If you are available to help, please email Lauren Swett

lswett@woodardcurran.com

For more info about the EXPO:

<http://engineeringme.com/>



Maine Section of American Society of Civil Engineers Technical Seminar

Maine Section
American Society of Civil Engineers

Hilton Garden Inn, Auburn March 21, 2019

Come join the Maine Section of the American Society of Civil Engineers at our Annual Technical Seminar. This year's seminar Topics include:

- 2-D Hydraulic Modeling
- Mobility and Traffic Signalization
- Update on UMaine Engineering, Education & Design Center
- Solar Energy
- Mass Timber Construction
- Climate Change
- Bridge Reconstruction
- And MORE!

Earn 7 PDHS!

Schedule:

7:30 - 8:00	Registration
8:00 - 12:00	Speakers
12:00 - 1:00	Lunch
1:00 - 4:30	Speakers



Price:

___ \$130 Government/Municipal Officials
 ___ \$150 Maine ASCE Member
 ___ \$175 Non-Members and Members/Government/Municipal after Thursday, March 14th.
 ___ \$60 Students, Retirees, Life Members, and Unemployed Members

Location:

Hilton Garden Inn
 14 Great Falls Plaza
 Auburn, ME 04210
 (207) 777-7328

Send registration to:

Ray Bolduc
 WBRC Architects Engineers
 44 Central Street, Bangor, Maine 04401
 (207) 947-4511
 ray.bolduc@wbrcae.com

Make Checks Payable to Maine ASCE
 Payment will be accepted at the meeting.
 We reserve the right to invoice no-shows.



Name: _____ Life Member: __ Y __ N

Organization: _____

Email address for confirmation: _____



Maine Section ASCE Annual Technical Seminar
Thursday, March 21st, 8:00 a.m. to 4:30 p.m.
Hilton Garden Inn, Auburn, Maine

AGENDA:

- 7:30 – 8:00 **Registration, Coffee/breakfast**
- 8:00 – 8:05 **Welcome Remarks**
- 8:05 – 9:10 **2-D Hydraulic Modeling to Solve Transportation and Land Use Challenges**
Presented by: Ellen O'Brien, PE and Nicki Buck, PE; Northstar Hydro
- 9:10 – 10:15 **Mobility – Traffic Signals Are Getting Smarter but Are We Taking Advantage?**
Presented by: Steve Landry, PE, State Traffic Engineer, MDOT
- 10:15 – 10:25 **Break**
- 10:25 – 10:45 **Update on the new UMaine Engineering Education & Design Center**
Presented by: Dana Humphrey, PE, Professor & Dean, UMaine College of Engineering
- 10:45 – 11:50 **An Introduction to Solar for Water and Waste Water Treatment Districts**
Presented by: Nick Sampson, Commercial Solar Consultant for ReVision Energy
- 11:50 – 1:00 **Lunch**
- 1:00 – 2:05 **Mass Timber Construction – Patrons Insurance Company, Portland, Maine**
Presented by: Chris Williams, PE, Becker Structural Engineers
- 2:05 – 3:10 **Climate Change and Extreme Events, A Challenge for Sustainable Infrastructure**
Presented by: Miltiades Zacas, PhD, PE, FGS/CMT, Inc.
- 3:10 – 3:20 **Break**
- 3:20 – 4:25 **Cummings Road Bridge Reconstruction, South Portland, Maine**
Presented by: Josh Olund, PE and Tim Cote, PE, HNTB
- 4:25 – 4:30 **Closing Remarks and Adjourn**



UMaine Student Chapter Update

The University of Maine ASCE Chapter is excited to start off a new semester and a new year. There are six new officers: President Erin Brewer (3rd year student), Vice President Alden Burns (1st year student), Secretary Carly Buswell (3rd year student), Treasurer Alainie Sawtelle (3rd year student), Outreach Chair Andrew Guimond (2nd year student), Social Media Chair Samantha Grice (1st year student).

On January 25th and 26th, the newly elected officers; the President, Vice-President, Treasurer, and Secretary will attend the Workshop for Student Chapter Leaders (WSCL) in Orlando. The WSCL is a training session for student leaders and will provide the leaders with the opportunity to network with other ASCE members along the Eastern Seaboard.

The Chapter's *P3: Practitioner Presentations & Pizza* seminar series is underway for Spring 2019! We have scheduled Peter Merfeld from the Maine Turnpike Authority on January 30. We are seeking 10 additional practitioner speakers for this semester. These presentations are great way for our student members looking for summer internships and full time positions to relate course content to the broader profession, and network. Please contact Alden Burns (alden.burns@maine.edu) to inquire about getting on the schedule.

We are most excited that UMaine is hosting the New England ASCE Regional Student Conference on April 12-14, 2019. The Conference will be attended by 450-500 students from the greater New England region, who will participate in a business meeting, professional/technical presentations, competitions, social activities, and an awards banquet. Competitions include Concrete Canoe, as well as two new competitions this year: Sustainable Solutions Competition - Dog House Challenge and the Blue Sky Competitions Contest. The Conference Host Committee, comprised of a dozen UMaine Civil & Environmental Engineering students, is learning valuable project management, scheduling, budgeting, and fundraising skills for this large scale event.

The UMaine Conference Host Committee is seeking financial sponsors from New England engineering companies, government agencies, and individuals. Becoming a sponsor of the New England Regional ASCE Student Conference means you'll be helping to defray the costs of hosting the event. Our goal is to raise a total of \$15,000, which will ensure team and individual participant registration costs remain financially feasible for all team and student attendees. The table below explains the levels of sponsorship. All sponsors will be sent a letter thanking you for your tax-deductible donation. If you are interested in being a sponsor please email Erin Brewer (erin.brewer@maine.edu).

Sponsorship Level	Donation Amount	Rewards
UMF Beaver	\$499 and under	Company name on Conference t-shirt
USM Husky	\$500 to \$999	Company name and logo on Conference t-shirt
UMA Moose	\$1000 to \$2999	Networking table at Conference, Company name and logo on Conference t-shirt
UM Black Bear	\$3000 and above	Named sponsor of the Competition of your choosing, Networking table at Conference, Company name and logo on Conference t-shirt



Maine ASCE Younger Members Host:



Date: Thursday, February 14, 2019

Time: 5:30pm to 7:30pm

Where 10 Thompsons Point
Portland, ME 04101



Admission will be covered by the ASCE Younger Members group. Rentals are \$3 and are not included.

Please contact Mat Hardison (mhardison@summitgeoeng.com) to RSVP or for more information!



Recognize Your Peers with a Maine ASCE Award!

Our Section continues to win national awards because of all of our great members! To help say thank you, each year, the Maine Section ASCE recognizes an Engineer of the Year, a Young Engineer of the Year, and a Citizen Engineer. Many of our colleagues often go unrecognized for their contributions, and this is the opportunity to express gratitude for the good work and service to the community that they provide. Please consider submitting a nomination for one or more of the awards this year.

Civil Engineer of the Year - presented annually to an individual who is a P.E. in Maine, has demonstrated noteworthy engineering skills, and commendable contribution of their time to the betterment of society.

<http://www.maineasce.com/downloads/Awards/MaineEOYNominationForm.doc>

Young Civil Engineer of the Year - recognize the professional contributions of younger civil engineers. The recognition is made to an engineer who is an EIT or PE in Maine and is 35 years of age or less on May 1st of the year of the award and has attained professional achievement.

<http://www.maineasce.com/downloads/Awards/MaineYoungEOYNominationForm.doc>

Maine Section Citizen Engineer - This award is to recognize Civil Engineers who are known for volunteering their expertise to help in their community or at a national level. These individuals have contributed significant personal energy to enhance the recognition of civil engineering as a respected profession through their involvement.

<http://www.maineasce.com/downloads/Awards/MaineCitizenNominationForm.doc>

Submit your nomination forms and supporting information to the chair of the awards committee chair, Philip Dunn at the following mailing address: University of Maine, School of Engineering Technology, 5711 Boardman Hall, Room 119, Orono, ME 04469-5711 or through email at philip.dunnjr@maine.edu.

Kitty Breskin Project Award -

Maine ASCE has instituted the project award in honor of the late Kitty Breskin, P.E., a Maine Department of Transportation engineer and a past-president of Maine ASCE. The inaugural winner of the Kitty Breskin Project Award, presented at the May 14, 2015 annual meeting, was in fact the MaineDOT's Kitty Breskin-Muscongus Bridge Project. The project was honored for its innovative use of technology and important contribution to infrastructure in Maine.

In order for other projects to be considered for the award they will have to show the same innovation and contribution to the community as the inaugural award. The Maine Section Award committee will review nominations and notify the winner by May 1. The award presentation will be made and the project will be featured at the Maine Section annual meeting typically held the third week in May. Nominations are to be submitted via mail to the ASCE President and received by 5 p.m on April 12. This year's projects will be submitted to Lucas Stiles, Maine Section ASCE President, 2018-2019. Kleinschmidt Associates, 141 Main St, Pittsfield, ME 04967

The nomination material should provide information on the project and its features. Examples to include would be how the project provided safety improvements, environmental benefits, was cost effective, had a shortened schedule, charitable aspect, unique design for Maine, or was first of its kind in Maine. Every project nomination does not need to have all of these mentioned but should showcase if applicable as they will be weighed heavily. Nominations should be limited to 6 pages total not including pictures (3 pages double sided or 6 single sided pages). Pictures need to be provided on a cd or memory stick and become the property of Maine Section ASCE to display as part of the award process. The project must be substantially built by April 1 of the year being nominated for and the design team and/or the project must be based in Maine.

Nominations will be received until **April 12, 2018.**



March 23, 2019 *Sunday River Resort

Join ASCE in Support of Maine Adaptive for the 34rd Annual Ski-A-Thon

ASCE will be forming a team and ask each member to raise a minimum of \$250 per person. All team members receive:

- A **FREE ski pass** for the day of the event
- A delicious breakfast, lunch, and evening celebration
- An event t-shirt



Email Mackenzie if you are interested in joining a team!
mдемkowicz@vhb.com



Community News!

HARRIMAN PROMOTES TWO TO PRINCIPAL

FOR IMMEDIATE RELEASE (January 21, 2019): Harriman is pleased to announce the promotion of James C. Fortin, P.E., SECB and David W. Story, P.E., LEED AP to principal, effective January 1, 2019. Jim and Dave join the firm's seven other owners, encompassing a diverse core of leaders from the firm's multidisciplinary architectural, engineering, and planning practice.



James C. Fortin, P.E., SECB is a structural engineer and leads Harriman's structural and civil engineering groups, guiding contract development, client relations, and construction administration as well as providing direct project oversight to projects in development. Jim has more than twenty-five years of experience in structural engineering, with extensive knowledge of building systems, serving as structural-engineer-of-record for new construction and major renovation projects spanning the medical, educational, commercial, industrial, housing and retail markets throughout New England and beyond. Jim holds a bachelor of science in civil engineering from Worcester Polytechnic Institute and is a licensed professional engineer in six states. He lives in Lewiston with his family.



David W. Story, P.E., LEED AP is a mechanical engineer leading the firm's mechanical engineering group. Focused on providing sustainable and energy-efficient systems to clients primarily in the education, healthcare, and retail environments, Dave marries a practical approach to cost-effective solutions with an eye toward innovation. With nearly 15 years of experience in mechanical engineering – all of it with Harriman – for diverse project types, Dave holds both an associate of applied science in civil engineering and a bachelor of science in mechanical engineering from the University of New Hampshire, and is a licensed professional engineer in five states. He lives in Lisbon with his family.

"We are thrilled to welcome both Jim and Dave into the firm's most senior leadership," says Harriman President **Clif Greim, P.E.** "They have long been highly-regarded leaders not only within the firm but with our clients and peers in the community, and we are so pleased to have them part of guiding the future of the firm."

ABOUT HARRIMAN

Balancing the art of architecture with the thoughtfulness of planning and the science of engineering, Harriman is an integrated design firm headquartered in Maine. With a legacy dating back to the firm's founding in 1870, Harriman has deep roots in New England's cities and towns, and today develops thoughtful solutions and inspiring environments for a diverse client base from four locations in Auburn, Boston, Portland, and Portsmouth. Proponents of sustainability, technology, research, and discovery, we apply a holistic approach, blending diverse perspectives to provide our clients with solutions that translate their distinct strategic goals and respond to the challenges of today's economy. Learn more about us and our work at www.harriman.com.



STEM Camp Scholarships

The Maine Section of the American Society of Civil Engineers (ASCE) is happy to announce the continuation of our **SUMMER STEM CAMP SCHOLARSHIP** program!

- ✓ **Who?** Maine Students currently enrolled in Grades K-8.
- ✓ **What?** To attend Science, Technology, Engineering and Mathematics (STEM) oriented camps.
- ✓ **Where?** Any STEM camp you choose!
- ✓ **When?** Applications must be received by April 30th
- ✓ **How much?** Up to \$350 to cover the cost of camp!

The fine print: To help those who may need assistance with camp fees we will be providing an undetermined number of scholarships to winners statewide. The selection criteria will be based on financial need and the camper's statement about why they would like to attend a STEM camp.

The payment will be sent as a reimbursement to the parent once the camp is complete and proof of attendance/cost is received. If for any reason your camper cannot attend the camp as intended the scholarship will be given to the next eligible applicant on our list.

Each camper will be asked to send us pictures and write a letter about their experience to share with the board and membership as a "thank you". This isn't meant to be homework - we're just very excited to hear about your adventure!

To apply for a scholarship please fill out the following form and mail or email to:

ATTN: Heather Hayes
James W Sewall Company
40 Forest Falls Drive, Suite 2
Yarmouth, ME 04096
heather.hayes@sewall.com

You can also call if you have any questions:
207-817-5485

ASCE Engineers helping students test bridge designs





SUMMER STEM CAMP SCHOLARSHIP APPLICATION

About the Student

Name: _____

School: _____

Age & Grade: _____

About the Parent(s)

Number of children: _____

Ages of children: _____

Expected annual income (approximately): _____

Name and Mailing Address: _____

About the Summer Camp

Name: _____

Location: _____

Cost: _____

Now for the fun part! We need the camper to tell us, in 500 words or less, why they want to attend this camp. Use additional sheets as needed.



Looking for Employment?

Town of Windham Engineer

This is highly professional position that provides administrative and technical support to the Planning and Public Works Departments in the project management of engineered municipal projects, review of development applications and management of construction inspections of permitted development as well as other duties in the office and the field. Responsibilities include dealing effectively with the public concerning department activities and performing specific delegated tasks. Possession of a professional engineer's license from the State of Maine is required as well as any equivalent combination of education and experience equal to a Bachelor of Science in Civil Engineering and a minimum of five years' experience in engineering field work, construction, design, and surveying.

A full job description can be found online at <http://www.windhammaine.us/Jobs.aspx?JobID=114>. Please apply online or submit via email: apply@windhammaine.us. Application deadline is February 7, 2019.

Sr. Practice Leader - Civil Engineering, Portland, ME



The **Sr. Practice Leader** is a dynamic role that includes leading a team of civil and coastal engineers, developing business in the civil/coastal practice areas as well as managing a portfolio of their own projects.

Qualified candidates will have:

- Bachelor of Science degree in engineering, ideally Civil Engineering; Master's Degree preferred.
- Professional certification (P.E.) in Maine and states covered by the regional offices (MA, NH, RI, NJ); or ability to get licenses in those states.
- 15 years of professional experience; advanced degrees may be prorated as professional experience.
- Passion for their field of expertise and commitment to doing great work for the client.

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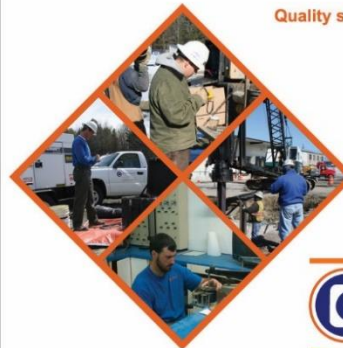
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The deadline for submissions is the 20th of each month prior to publication.