

"Passion and sustained persistence applied towards longterm achievement, with no particular concern for rewards or recognition along the way: GRIT" – Angela Duckworth

We hope that everyone had a wonderful holiday season with their family and is refreshed and refocused to take on 2020. If getting more involved with ASCE or the professional engineering community was one of your resolutions for the year, we are here to help! There are many chances for you to socialize, volunteer, and get PDH's!

If you have ideas, suggestions, questions, etc. please feel free to contact us at <a href="mailto:informant.ascemaine@gmail.com">informant.ascemaine@gmail.com</a>.

I hope to see you soon!

Heather

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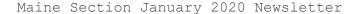
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### Maine Section ASCE - Save the Date(s)

January 2020							
			1 HAPPY NEWYEAR	2	3	4	
5	6	7	8	9	10	11	
12	13	14	15	16 ASCE Monthly Meeting	17	18	
19	20	21	22	23	24	25	
26	27 Volunteer at Preble Street!	28	29	30	31 Scholarship Deadline!	Feb 1	







### **President's Message**

We have enjoyed another holiday season and are looking forward to bright New Year. It is also a time to look back at the past year. The Maine Section ASCE has had a very busy year. The Transportation Conference in December was a great event and I saw many ASCE Members there. The theme of resiliency is an important one as engineers seek to design for the future.

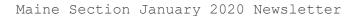
The Maine Section has been awarded one of the 2019 Outstanding Section and Branch Certificates of Commendation. This is in recognition of the hard work and dedication of the Maine Section Board Members and Committee Chairs. We provide support to the community, our members and to future engineers at the University of Maine and our involvement in bringing engineering to K-12 students. I want to thank everyone for their contributions the Maine Section of the American Society of Civil Engineers.

Looking forward, we have a number of events scheduled for the coming year. We start with a monthly meeting on January 16<sup>th</sup> with a presentation on the Design and Construction of the Springs Dam Nature-Like Fishway on the Saco River. Coming up in February is Engineers Week and the Engineering Expo to be held at the University of Maine in Orono. This is a great event where people get to see all of the things that engineers do.

Check out the Informant the latest events and news. We are also working on getting a new website going. Mat Hardison and other Maine Section Board members have been working diligently with ASCE National to get this up and running. I know we have been without a working web page for some time, but I am excited that it is going to happen soon.

I want to wish everyone a happy and safe New Year and I hope to see some new faces at our upcoming events.

John Kuchinski, PE Maine Section President







### **Maine Section ASCE Meeting**

Design and Construction of the Springs Dam Nature-Like Fishway on the Saco River

Presented by: Ralph Nelson, PE - HDR, Inc.

### Location:

Bruno's Tavern 33 Allen Avenue Portland, ME 04103

### Date:

January 16<sup>th</sup>, 2020





### Schedule:

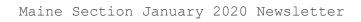
4:30 - 5:30 ASCE Board Meeting 5:00 - 6:00 Registration, Social Hour

6:00 - 7:00 Dinner

7:00 - 8:00 Presentation

Construction of the Springs Dam NLF on the Saco River was completed in late 2019. The construction of the NLF enhances volitional fish passage of target species (Atlantic salmon, American shad, herring, American eel and other species) within the river. Design of the structure involved unique design challenges, including accommodating a two-foot headpond operation range, a four-foot tailwater operational range, high flow considerations, some construction work in the wet, modifications to the existing dam, and design for stability during flood flows. The Springs Dam NLF is approximately 250 feet long, 100 foot wide, and was constructed by Sargent Corporation using local materials for construction, including the use of large, locally sourced stones for creating weirs and pools and the local processing of materials for riprap and fill.

Price: \$35 ASCE Members before RSVP (January 13th)	RSVP By January 13th!			
\$45 Non Members and Members after RSVP\$25 Government Employees\$10 Students\$0 Life Members	Now Accepting Credit Card Payments!			
Make checks payable to: <i>Maine Section ASCE</i> We reserve the right to invoice no-shows.				
Name:Organization:	Life Member: Yes No			







### WOMEN'S TRANSPORTATION SEMINAR INTERNATIONAL – MAINE CHAPTER MEETING

Thursday, January 16, 2020

# RSVP Today! Past Presidents' Dinner Welcome New Executive Board

Please join WTS-Maine Chapter for a buffet dinner provided by our Past Presidents at Bucks BBQ in Freeport.

WTS-Maine Chapter's outgoing President Theresa McAuliffe will pass the gavel to incoming President Erin Courtney and congratulate the other new executive board members.

We will be welcoming all of our new officers and thanking our outgoing officers for their hard work.

### Thursday, January 16, 2020

5:30 pm Reception and Welcome New Executive Board

6:15 pm Buffet Dinner

### **Buck's Naked BBQ**

568 US-1 Freeport, ME 04032

Cost: Free for Members \$25 not-yet-members

Pay at the Door Buffet Dinner Provided - Cash Bar

### **RSVP Today!**

Buck's Naked BBQ 568 US-1, Freeport, ME 04032

Free for Members \*
Please RSVP by January 9th
By emailing Meredith Kirkmann at
Meredith.Kirkmann@maine.edu



Advancing Women in Transportation Maine Chapter





### **Call for Presentations!**

There is nowhere to hide from the discussions surrounding designing for resiliency and climate change. Do you have an interesting project or technical design specification knowledge base related to resiliency and climate change that you would like to present at the 2020 ASCE Technical Seminar? We would love to hear from you! We are still seeking 3 more speakers!

Technical Seminar Date: Thursday, March 19th, 2020.

Email Heather Hayes (heather.hayes@sewall.com) for more information or to offer a presentation!

### **VOLUNTEERS NEEDED**



Preble Street Resource Center – Monday, January 27<sup>th</sup>, 2020

Dinner Service 3:30PM - 6:30PM

Kick off 2020 by helping volunteer with ASCE by serving dinner to those less fortunate than us.

10-12 people needed!

Email Heather Hayes (heather.hayes@sewall.com) for more information or to sign up!





### 2020 Report Card!

### 2020 Report Card for Maine's Infrastructure



There is still time if you are interested in participating in the Report Card Committee for 2020. Please join us! Members will volunteer to one or more infrastructure areas for research, writing and grade assignment. I expect the kick off with ASCE to occur in early 2020 with final drafts due no later than August 5<sup>th</sup> and an unveiling in late fall 2020. Check out the latest report card at <a href="https://www.infrastructurereportcard.org/state-item/maine/">https://www.infrastructurereportcard.org/state-item/maine/</a>

If interested, please contact Peter Merfeld. Email works best at <a href="mailto:pmerfeld@maineturnpike.com">pmerfeld@maineturnpike.com</a> or call 207-485-2036.

### **Scholarship**

### MAINE SECTION ASCE HIGH SCHOOL SCHOLARSHIP

The ASCE Maine Section is seeking applicants for its *Civil Engineering High School Scholarship*. There will be one \$2,000 scholarship awarded to an outstanding high school senior from Maine who plans to major in civil engineering in college. The student selected must show proof of enrollment in a four year ABET accredited Civil Engineering program. This scholarship has been highly successful in past years and typically attracts many students who are in the top 5% of their graduating class. The application and all its attachments must be **postmarked by January 31, 2020.** If you know anyone who might be interesting in applying, please encourage them to obtain further information and applications from their guidance counselor or from:

Leslie L. Corrow, P.E. Kleinschmidt Associates 141 Main Street PO Box 650 Pittsfield, Maine 04967

Phone: 207-416-1243

Email: leslie.corrow@kleinschmidtgroup.com





# Ski Day at Sugarloaf with UMaine Students SATURDAY, FEBRUARY 8, 2020







Come join ASCE for a fun day at Sugarloaf! Lunch at the Sugarloaf Inn, catered by the Shipyard Brewhaus, is included in the ticket prices. Friends and family are welcome!

<u>Please RSVP by February 1 to Cece Walton (cwalton@vhb.com).</u> Be prepared to pay by cash (exact change) or check the day of the event BEFORE receiving your ticket or mail a check made out to "Maine ASCE" to Esther Bizier 26 Beckler Rd, Livermore, ME 04253 before the event.

### **Lift Tickets:**

\$50 ASCE Student Members (\$35 if 18 & under)

\$65 ASCE Members (\$50 if 18 & under)

\$75 Non-Members (\$60 if 18 & under)

### **Outdoor Center Tickets:**

\$20 ASCE Students @ Outdoor Center (nordic ski, snowshoe, ice skate, etc.)

\$30 ASCE Members @ Outdoor Center

\$40 Non-Members @ Outdoor Center

### **Group Rate Lessons:**

\$60 Learn to Ski or Snowboard (includes learning area lift ticket, rentals, and a clinic)

\$70 Learn to Ski Step 2 (includes mid-mountain lift ticket, rentals, and a group clinic)

\$25 Perfect Turn Clinics (90-minute lesson, different levels available)

### **Rentals:**

\$30 Alpine Ski/Snowboard Rentals

\$8 Helmet Rentals

\*Equipment rentals also available at the Sugarloaf Outdoor Center – included in ticket price

### **Lunch Buffet Only:**

FREE ASCE Student Members & Maine Section Members \$15 Non-Members







### 2020 SPRING PE Review Course!

Join the Maine ASCE PE Review Course starting February 4, 2020. Join today if you are taking the PE Exam either Spring 2020 or Fall 2020.

This is an online webinar with LIVE instructors available to answer your questions. Slide shows and examples are presented – we recommend printing them off and bringing the binder with you the day of the test. If you are unable to attend a live session, don't worry, you'll have free access to on-demand recordings until the Spring PE exam date! You do not need to be an ASCE member to sign up.



**Live Session Location**: To Be Determined

\*\*REMEMBER – YOU DO NOT NEED TO ATTEND THE LIVE SESSIONS AS EACH SESSION IS RECORDED AND AVAILABLE ON DEMAND UNTIL THE SPRING PE TEST

<u>When</u>: Tuesday & Thursday, 3-5PM beginning February 4, 2020 (22 classes in total)

Cost: \$499 per person based on 6 participants. The more

participants, the less cost per person!

**Contact**: Lindsey Kandiko – lindsey.j.kandiko@maine.gov

FMI visit: http://www.asce.org/pe\_exam\_review/





### Course Schedule

Tuesday, February 4, 2020 STRUCTURAL ANALYSIS J.P. Mohsen, Ph.D., F.ASCE

Thursday, February 6, 2020 STRUCTURAL MECHANICS J.P. Mohsen, Ph.D., F.ASCE

Tuesday, February 11, 2020

DESIGN and CONSTRUCTION

J.P. Mohsen, Ph.D., F.ASCE

Thursday, February 13, 2020 CONSTRUCTION MATERIALS J.P. Mohsen, Ph.D., F.ASCE

Tuesday, February 18, 2020 SOIL MECHANICS Jerry Vandevelde, P.E., M.ASCE

Thursday, February 20, 2020 FOUNDATION ENGINEERING Jerry Vandevelde, P.E., M.ASCE

Tuesday, February 25, 2020 PPROJECT PLANNING J.P. Mohsen, Ph.D., F.ASCE

Thursday, February 27, 2020 ENGINEERING COST ANALYSIS J.P. Mohsen, Ph.D., F.ASCE

Tuesday, March 3, 2020 GEOMETRIC S J.P. Mohsen, Ph.D., F.ASCE

Thursday, March 5, 2020 SITE DEVELOPMENT J.P. Mohsen, Ph.D., F.ASCE

Tuesday, March 10, 2020 HYDRAULICS Benjamin D. Fennell, P.E., M.ASCE Thursday, March 12, 2020 HYDROLOGY Benjamin D. Fennell, P.E., M.ASCE

Friday, March 13, 2020
WATER RESOURCES AND
ENVIRONMENTAL DEPTH I
Benjamin D. Fennell, P.E., M.ASCE

Monday, March 16, 2020
TRANSPORTATION DEPTH I
Brandon Shelly, P.E.

Tuesday, March 17, 2020

GEOTECHNICAL DEPTH I

Jerry Vandevelde, P.E., M.ASCE

Wednesday, March 18, 2020 STRUCTURAL DEPTH I Mark McGinley, Ph.D., P.E., M.ASCE

Thursday, March 19, 2020 CONSTRUCTION DEPTH I J.P. Mohsen, Ph.D., F.ASCE

Friday, March 20, 2020
WATER RESOURCES AND
ENVIRONMENTAL DEPTH II
Benjamin D. Fennell, P.E., M.ASCE

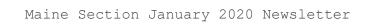
Monday, March 23, 2020 TRANSPORTATION DEPTH II Brandon Shelly, P.E.

Tuesday, March 24, 2020 GEOTECHNICAL DEPTH II Jerry Vandevelde, P.E., M.ASCE

Wednesday, March 25, 2020 STRUCTURAL DEPTH II Mark McGinley, Ph.D., P.E., M.ASCE

Thursday, March 26, 2020 CONSTRUCTION DEPTH II J.P. Mohsen, Ph.D., F.ASCE







### **REGISTER NOW**



# STRUCTURES CONGRESS 2020

St. Louis, Missouri | April 5-8

## **NEW**Group Discount

for 5+ full registrants from an organization

### **Opening Keynote:**

Generations@Work with Sarah Sladek, CEO of XYZ University

Learn how to make the most of multi-generational teams.

View full program of sessions, keynotes, and events and plan your schedule.

### The Premier Event in Structural Engineering



Students & Young Professionals:

Apply for Scholarship to participate by January 3

www.structurescongress.org

https://www.structurescongress.org/registration

### Join the Golf Committee!



Do you like golf? Do you enjoy planning things? Do you enjoy competing against your colleagues in a friendly tournament to raise money for our scholarship fund? Then we need YOU! There may be some snow on the ground, but we are already looking forward to next season. If you are interested in helping plan the Annual Maine ASCE Golf Tournament in June 2020 please email <a href="mailto:heather.hayes@sewall.com">heather.hayes@sewall.com</a> for more information!





### **Looking for Employment?**





#### http://www.maine.gov/dep

Public Service	Career Diversity		
Retirement	Promotional		
neurement	Opportunities		
Benefits	Over 10,000 Employees		
Paid Holidays	Statewide Locations		
Training	Seasonal Jobs		
Full Time	Part Time		

HOW TO APPLY: Candidates interested in this position need to complete and submit an online State of Maine Application, along with a detailed Resume and Cover Letter <a href="http://www.maine.gov/nrsc/">http://www.maine.gov/nrsc/</a> jobs/index.shtml#dep

#### BENEFITS:

Value of State's share of Employee's Retirement 14.47% of pay, Employee Pays: 7.65% of pay Value of State-paid Dental Insurance: \$14.31 biweekly

Value of State-paid Health Insurance\*:

Level 1: 100% State Contribution = \$461.75 biweekly (employee pays nothing) Level 2: 95% State Contribution = \$438.66 biweekly (Employee pays: 5%) Level 3: 90% State Contribution = \$415.58 biweekly (Employee pays: 10%) Level 4: 85% State Contribution = \$392.49 biweekly (Employee pays: 15%)
\*The level of actual value of state paid Health Insurance will be based on employee's wage rate and status with regard to the health credit Direct Hire Career Opportunity Bulletin

#### DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office Located at 28 Tyson Dr., Augusta ME

#### **ENVIRONMENTAL ENGINEER**

Opening Date: December 17, 2019 Closing Date: January 24, 2020

Location: Augusta Position #: 08320-1415

Position Type: Permanent Full Time Class Code: 6321

Grade/Salary: 24 \$47,382.40 - \$64,209.60 (includes 11% salary adjustment)

BRIEF JOB DESCRIPTION: This position is responsible for providing professional engineering expertise to the Bureau of Land Resources for the review of developments under the Natural Resources Protection Act, Site Location of Development Law, Stormwater Management Law, Maine Waterway Development and Conservation Act, and Maine Wind Energy Act. This position participates in pre-application and pre-submission meetings with applicants and their representatives, and will review the design of stormwater management systems, runoff treatment facilities, engineered structures, construction erosion controls, resource restoration projects, and wetland mitigation efforts. This position also conducts compliance inspections of licensed stormwater management systems and assists in updating

### Preference will be given to candidates with skills and/or experience in:

- Excellent time management skills and experience working within tight timelines:
- Knowledge of civil engineering principles and practices pertaining to the management of stormwater:
- Knowledge of soil mechanics and geotechnical engineering pertaining to impoundment design and slope stability;
- Knowledge of applicable State environmental laws and rules;
- Experience creating or reviewing stormwater management plans, including low impact development or green infrastructure techniques; and
- Experience evaluating erosion control problems in the field and communicating solutions to contractors and landowners.

MINIMUM QUALIFICATIONS: A Bachelors Degree in Environmental, Civil, Sanitary, Mechanical, or Chemical Engineering and four (4) years of engineering experience. Related experience may be substituted for education on a year for year basis.

LICENSING/REGISTRATION/CERTIFICATION REQUIREMENTS: Registration as a Professional Engineer by the Maine State Board of Registration for Professional Engineers. (These must be met by all employees prior to attaining permanent status in this class.)





### **Advertisements**



### James L. Woidt, P.E. Senior Project Engineer



(207) 303-0534



jwoidt@shumakerengineering.com

### Providing:

- Surveying
- Civil Engineering
- Construction Inspection
- Environmental Services

### With specialty experience in Water Resources:

- Stream Restoration
- Flood Risk Mitigation
- Post Construction
- Stormwater Management
- Soil Erosion and Sediment Control



- Culvert Rehabilitation projects
- Guivert Rehabilitation projects
   Snap-Tite, CMP, Large Diameter HDPE
   Inflow & Infiltration Solutions (Cretex)
   -Pro-Ring, Pipe/MH & Frame Seals
   Low Density Cellular Concrete used for geotechnical
   & pipe fill applications



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### **Advertise with Maine ASCE**

Would you like to advertise in the Informant? Take a look at our rates below, and contact the editor at Informant.ASCEMaine@gmail.com with any questions.

### **Business Cards**

Do you run your own consulting firm, or have a business that the Maine engineering community should know about? Advertise with a business card! Business card listings run for 1 year, including 9 issues of the Informant and full time on the website. Cost: \$150.00 Discounts Available: Purchase a 1-year Business Card ad and receive a \$25 discount on a Job advertisement!

### **Job Listings**

Advertise for new employees at any level – students, EITs, and PEs will all see your ad.

Job advertisements are posted in one issue of the Informant, and will run on the website for one month.

Cost: Quarter Page (3.75"x5") - \$35

Half Page (7.5"x5") - \$75 for 1 month

- \$500 for 1 year (9 issues)

Full Page (7.5"x10") - \$150 for 1 month

-\$1000 for 1 year (9 issues)





### **MaineASCE Board & Committee Contacts**

NAME	POSITION	COMPANY	EMAIL
Leadership Board			
John Kuchinski	President	City of Lewiston	President.ASCEmaine@gmail.com
Dan Bouchard	President-Elect	WSP	ElectPresident.ASCEmaine@gmail.com
Mat Hardison	Vice President	Summit Geoengineering	VicePresident.ASCEmaine@gmail.com
5.1. 51.	_	Services, Inc	T 1005 1 0 11
Esther Bizier	Treasurer	Main-Land Development Consultants, Inc.	Treasurer.ASCEmaine@gmail.com
Tom Perkins	Secretary	Dirigo Architectural Engineering	Secretary.ASCEmaine@gmail.com
Heather Hayes	Director (Year 3)	Sewall Company	<u>Director3.ASCEmaine@gmail.com</u>
Don Leblanc	Director (Year 2)	DLVEWS, Inc.	Director2.ASCEmaine@gmail.com
Lindsey Kandiko	Director (Year 1)	MaineDOT	<u>Director1.ASCEmaine@gmail.com</u>
Lucas Stiles	Past President	Kleinschmidt Associates	
Derek Allan	YM President	Base Design Group	DAllan@basedesigngroup.com
Mackenzie Bowe	YM Past President	VHB	mbowe@vhb.com
Amy Lebel	YM Vice President	Woodard and Curran	alebel@woodardcurran.com
James Woidt	Secretary		jwoidt@woidtengineering.com
Warren Zubrick	Treasurer	HDR	Warren.Zubrick@hdrinc.com
Mat Hardison	YM Social Chair	Summit Geoengineering	
		Services, Inc	
Heather Hayes	YM Public Outreach Chair	Sewall Company	heather.hayes@sewall.com
Committee Chairs			
Derek Allan	A/E Golf Tournament	Base Design Group	DAllan@basedesigngroup.com
Phil Dunn	Awards	University of Maine	Philip.Dunnjr@Maine.edu
Esther Bizier	Diversity	Main-Land Development Consultants, Inc.	
Lauren Swett	E-Week Organizing	Woodard & Curran	Lswett@woodardcurran.com
Lauren Swett	Committee	Woodard & Curran	LSWette Woodardcurran.com
Will Haskell	History & Heritage Co-	Gorrill-Palmer	WHaskell@gorrillpalmer.com
	Chair		
Heather Hayes	Informant Chair	Sewall Company	Informant.ASCEmaine@gmail.com
	Infrastructure Report		
Peter Merfeld	Card	Maine Turnpike Authority	pmerfeld@maineturnpike.com
Mike St. Pierre	Legislative Affairs	S.W. Cole Engineering, Inc.	
Tim Merritt	Life Member Activities	Stantec Consulting Services	tim.merritt@stantec.com
Lucas Stiles	Membership		
	Nominating		
Don Leblanc	Program		
	School Age Outreach		
Mike St. Pierre	Public Relations	S.W. Cole Engineering, Inc.	
Leslie Corrow	Scholarship	Kleinschmidt Associates	Leslie.Corrow@KleinschmidtGroup.com
Heather Hayes	Technical Seminar		
CeCe Mceachern	UMaine Student		
	Advisor/Practioner		
Eric Landis	<b>UMaine Faculty Advisor</b>	University of Maine	landis@maine.edu
Heather Hayes	Transportation		
	Conference		