



THE INFORMANT



Newsletter of the Maine Section ASCE



September 2011



From the Editors

In This Issue...

It is hard to believe that summer is almost over, but with that end comes the start of the school year and Maine Section ASCE meetings.

Classes at UMaine started yesterday, and as always the Student Chapter of the Maine Section ASCE is searching for volunteers to present interesting topics or projects during their student meetings. If you are interested in volunteering please see below for more information.

Don't forget to register for the Maine Section ASCE meeting on September 15th. The meeting will be held in Portland and will feature a presentation on the Gorham East-West Corridor Feasibility Study.

We are always looking for new ideas and additional information to include in each issue of the Informant. If you have ideas, suggestions, questions, etc. please feel free to contact us at Informant@maineASCE.org.

Enjoy!

Helen & Ashley

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ASCE President-Elect: Gregory DiLoreto

Congratulations to Gregory E. DiLoreto, P.E., P.L.S., F.ASCE, chief executive officer of the Tualatin Valley Water District serving Portland, Oregon's western metro area, elected by ASCE members as the Society's President-elect for 2012. DiLoreto, whose deep involvement in the Society spans more than 30 years, will work alongside 2012 President Andrew W. Herrmann, P.E., SECB, F.ASCE, and succeed to the presidency in 2013. DiLoreto will assume his new role during the Society's annual business meeting this October in Memphis, TN. In the just-closed election, ASCE members also filled several other leadership positions at the national and regional levels. [See all the winners](#), read their biographies and view the vision statements they submitted. Also see the two amendments to ASCE's constitution that were approved.



"I have a passion for this organization, and I intend to continue that passion of service as the President-elect and President of ASCE."

– Gregory E. DiLoreto, P.E., P.L.S., F.ASCE
2012 ASCE President-elect

Note from the President, Maine Section ASCE

As I prepare this note, Hurricane Irene is beginning her curve northward to begin her test of all improvements along the east coast. The news reported that twenty percent of the US population lives within the projected path of the storm. Our heritage of careful infrastructure planning and design will be called upon to transport, shelter, and protect the public during this event, and will likely go unheralded. Only failures will be noted in the press, while the ports, sea walls and revetments, foundations, buildings, roads, bridges, highways, and drainage ways will hopefully have performed as designed. The mid-Atlantic has been repeatedly tested over recent history, however the dread that we all share is related to areas north of New Jersey which have not been tested by severe hurricane in almost 100 years. In 1991 Hurricane Bob, a Category 2 hurricane caused over 1.5 billion dollars in damage. Even our famous 1991 "Perfect Storm", Hurricane Grace, was still only a Category 2. Hurricane Irene has the potential to change the planning and design basis for coastal and flood projects in the Northeast.

Engineers in Maine are also preparing for our upcoming professional license renewal deadline by reviewing the status of our PDH's. ASCE provides education and training content to assist you in meeting state requirements, and as an ASCE member you receive emails and flyers noting the schedule of upcoming seminars and webinars. I want to call your attention to a new option among the [professional development choices from ASCE](#), which are archived webinars. ASCE live webinars are recorded and available to members at a significant discount compared to the live webinars. The CEU's are a little different from the live webinar in that the archive webinar requires that you take and pass a post-webinar test to receive the CEU's. Testing-aside, this does present a very convenient means to earn professional development credit on your own schedule, at a time of your choosing.

You can also earn accredited PDH's from attendance at our Maine Section meetings, which begin again on September 15th, as described within this newsletter. You can also earn PDH's from active participation on committees and the board of the Maine Section, as well as making presentations to the Sections at our regular meetings.

See you on September 15th!

Ralph D. Nelson, P.E., M.ASCE
Maine Section President

ASCE & EWB Join for Habitat for Humanity Work Day

On Saturday, September 17, 2011 the Maine Section ASCE and Portland Maine Chapter of Engineers Without Borders will team with Habitat for Humanity to complete a second productive work day. For additional information about this day check out the Habitat for Humanities Greater Portland website. The website provides more information about the organization and how you can help them with their mission of building affordable houses in the Portland area.



<http://www.habitatportlandme.org/>





**Maine Section ASCE Meeting
Bruno's Banquet Center, Portland, ME
Thursday, September 15, 2011**

RSVP by Monday Sept 12

Gorham East-West Corridor Feasibility Study

Message from the Program Chair: Greetings everyone and welcome to a new year of section meetings, events and seminars. The Maine Section works hard to ensure we provide meetings that cross many disciplines of civil engineering, cover regional and national topics and recognize the talent and successes of our colleagues and peers. We also strive to keep our meeting costs reasonable for the full-time professionals, students, retirees and life members while balancing the Maine Section budget. Your feedback and input is important to us and please feel free to send me comments on what you liked about the meetings or things we can change. We look forward to another great year and appreciate your support and commitment to the monthly programs.

Presentation: The Gorham East-West Corridor Study, launched in April 2009, is a major transportation and land use study of the corridors immediately west of Portland. It includes the core municipalities of Gorham, Westbrook, Scarborough and South Portland as well as all contiguous towns. This area has historically been the fastest-growing residential market in Maine and is the seat of some of the worst traffic congestion in the state. The four core communities were integral in obtaining a Legislative Resolve for the Study, which is funded by the Maine Turnpike Authority and the Maine Department of Transportation.

The current crisis in transportation funding, along with rising energy and highway construction costs, makes it critical to fully evaluate the range of transportation and land use solutions available for this corridor. The study's goal is to evaluate all options and - without adding excess transportation capacity - find the right balance of sustainable land use and transportation solutions that can be implemented to protect area residents' quality of life over time.

Significant Growth: By 2035, it is anticipated that 50,000 new residents will live in the study area. This translates to 35,000 new homes and 25,000 new jobs. These projections have created even more pressure to find solutions to manage traffic growth as well as develop transportation choice in this region. Regionally, 70% of Maine's growth during this time period will end up in Cumberland and York Counties.

A Balanced Approach: Study findings show that no single action can solve the growing traffic problems in this area. But it has found that a balanced approach with three kinds of solutions will make a positive difference.

Speaker: Paul T. Godfrey, P.E. Associate Vice President at HNTB, serves as transportation planning/traffic engineering department manager in the Westbrook, ME office. Paul has more than 22 years of experience in the transportation engineering field. His responsibilities include both management and design of transportation projects.



Paul has been involved in a wide range of transportation planning and design projects performing transportation planning, traffic engineering analysis and system design. His areas of specialization include analysis of transportation planning and evaluation, traffic signal phasing and timing, intersection layouts, sign and pavement marking design, traffic impact evaluation, transit analysis and design, air quality assessment, ITS planning and design, data collection, parking layouts, roadway layouts, as well as traffic control and maintenance of roadways. He has also supervised planning projects that involved the development of computer volumes for model projections and route analysis.

Schedule of Events:

- 4:00-5:00** Board Meeting (All welcome)
- 5:00-5:45** Social Hour (Cash bar) and Buffet of mouthwatering and satisfying heavy hors d'oeuvre's
- 5:45 to 7:00** Presentation (Potential 1 PDH)

Price:

- ___\$30 ASCE Members before RSVP Deadline
- ___\$35 Non-Members and Members after Deadline
- ___\$15 Students, retirees, and unemployed members
- ___\$0 Life Members

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

Name: _____ Life Member: ___ Yes ___ No
Organization: _____

Please email or fax registration to:
W. Scott Gorneau, P.E., CPSWQ
(sgorneau@fabco-industries.com)
FABCO Industries, Inc.
120 Exchange St, Suite 300
Portland, ME 04101
Tel: 207-831-2795
Fax: 207-772-8101

Directions:
Bruno's Restaurant and Tavern
33 Allen Ave
Portland, ME 04101
207-878-9511



UMaine Engineering: Exploring Watershed Sustainability with Middle School Students

A University of Maine engineering professor is working on a research and education grant focused on watershed sustainability, a project which includes helping middle school-aged children understand the effects of climate change on watershed sustainability in their own municipalities.

Shaleen Jain, an assistant professor of civil and environmental engineering, is doing research on developing models to understand the impact of climate change on forest supplies and the role of water allocation in both ensuring reliable water supplies for communities and balance the health of the ecosystem.

Jain recently received a Faculty Early Career Development (CAREER) Award from the National Science Foundation to bolster his research. The five-year, \$406,551 award also has an educational component, for which Jain will work with UMaine's New Media Internet Technologies Laboratory to develop a new watershed sustainability-related gaming environment for students.

The program, called SimStream, allows students to explore the relationships between a stream, its ecosystem and a neighboring city. It was built using Scratch, a programming environment that was developed by the Massachusetts Institute of Technology Media Laboratory.

"We'll be merging computational learning with environmental sustainability in middle schools," Jain said. "We are work with students to develop their own conception of watersheds, where they can include various physical and cultural elements. We really think that issues of environmental sustainability are increasingly urgent and important to include as early in our K-12 education system as we can. So this is a small effort in that direction."

Students at Stillwater Montessori School in Old Town experimented last spring with Scratch and will use the program again this autumn. Eventually Jain will partner with UMaine's Wabanaki Center to develop an educational curriculum on watershed sustainability for middle-school students in Maine's Penobscot and Passamaquoddy tribes.

In his research, Jain will collaborate with the Maine Department of Environmental Protection and other water-related stakeholder groups.

NSF CAREER grants are highly selective awards to junior faculty who are promising researchers in their field. Previous CAREER awardees in UMaine's Civil and Environmental Engineering Department include Eric Landis, Jean MacRae and Roberto Lopez-Anido.

Jain, who has been at UMaine since 2006, is also a cooperating assistant professor in UMaine's Climate Change Institute and the School of Policy and International Affairs. He is also part of the core faculty team working with the UMaine-based Sustainability Solutions Initiative, led by David Hart.

Contact: Shaleen Jain, (207) 581-2420 or shaleen.jain@umit.maine.edu; Jessica Bloch

www.engineering.umaine.edu



University of Maine Student Chapter

A new semester has started and the Student Chapter at the University of Maine is looking for presenters for their lunchtime meetings on Wednesdays at Noon. For more information and to volunteer, please contact Student Chapter Vice President Rychel McKenzie at Rychel.McKenzie@umit.maine.edu.

Don't forget to check out the Student Chapter website:
<http://www.civil.umaine.edu/asce/>



Maine Historic Civil Engineering Landmark: Androscoggin Swinging Bridge

By Will Haskell, PE, Chair of Maine Section ASCE History & Heritage Committee

The Maine Section's History and Heritage Committee and Executive Board were excited to dedicate another Maine Historic Civil Engineering Landmark in May 2011. The Androscoggin Swinging Bridge, located across the Androscoggin River between Brunswick and Topsham was originally designed and constructed by John Roebling Sons Company has seen its share of good times and hardships over its 118 year life span. It has survived significant floods in 1901 and 1902, only to have its deck ripped from the support towers and suspension cables in the flood of March 1936. The 1936 flood is still considered the flood of record in many locations throughout New England and it is reported to have caused over \$25 million dollars in property damage in the State of Maine alone. The bridge was reconstructed in 1936 by the Works Progress Administration and is still considered an important part of the two communities that it connects.

As with many bridges and other infrastructure, it has suffered from lack of maintenance and periods of neglect. The original purpose of this bridge was to provide a way for mill workers who lived in Topsham to reach the Cabot Mill and the commercial district which was located on the opposite side of the Androscoggin River in Brunswick. The Cabot Mill, a textile mill, spurred the region's growth and shifted the economy from agriculture to industry in the mid-1800's to the mid-twentieth century.

In 1999, a study of the bridge indicated that the remaining life of the bridge was 5 to 10 years and \$360,000 was needed for rehabilitation and to extend its life for another 50 years. The "Save Our Swinging Bridge.org" Committee was formed to advocate for saving the bridge and they undertook numerous fundraising events, which, along with grant money provided funding for the rehabilitation project. The restoration project was begun in 2004 and completed in 2006 and the bridge remains a vital link between Brunswick and Topsham, providing cultural, recreational, educational and other benefits for the public.

Description of Bridge

The Swinging Bridge consists of two steel 30-foot 6-inch towers on concrete abutments with a wooden deck. The deck is suspended on rods hung from the suspension cables between the two towers. The bridge spans about 332 feet between the towers and the total span between the cable anchors is about 520 feet. The suspension cables are 1-7/8-inch in diameter and consist of 7 wires, each with 7 strands. Suspension rods hang vertically from the two main cables with steel beams suspended from the rods. Support timbers and wooden decking complete the 6-foot wide pedestrian walkway.

In March 1936 an extreme flood damaged the Swinging Bridge and destroyed the original deck and safety fence. The towers and original cables remained and were apparently reused when the Works Progress Administration rebuilt the structure between 1936 and 1938.

Significant Dates/Timeline

- 1892 Original construction by John A. Roebling's Sons, Company
- 1901 Survives significant flooding
- 1902 Survives significant flooding
- 1906 Ownership transferred from the developers to the towns of Brunswick and Topsham and bridge became a "public highway".
- 1936 Severely damaged by flood and rebuilt by Works Progress Administration
- 1954 Repair and maintenance work
- 1955 Verney Corporation (successor to Cabot Manufacturing) mill closed and the original use for which the bridge was constructed ended.
- 1959 Repair and maintenance work
- 1973 Repair and maintenance work
- 1993 Repair and maintenance work
- 2004 Listed on National Register of Historic Places
- 2004 Major repairs and rehabilitation work begins
- 2006 Bridge reopened to the public for regular use



Maine Historic Civil Engineering Landmark: Androscoggin Swinging Bridge

Key Professionals

The bridge was originally designed and constructed in 1892 by John A. Roebling Sons Company from Trenton, New Jersey, under the supervision of Mr. Farrington. The abutments were built under the supervision of Brad Cobb and T.W. Given, both of whom appear to be local Brunswick-based contractors (NRHP Registration form).

After the deck was destroyed in the 1936 flood, the WPA rebuilt the structure. The original steel towers and suspension cables were reused in the reconstruction.

Historical Significance

The bridge was listed on the National Register of Historic Places in 2004. While it may be impossible to determine the number of similar pedestrian bridges that were built by John A. Roebling Sons Company around the United States and the world, based on our review of the literature and internet, we have only found reference to two other such pedestrian bridges built by this company. These include a bridge over the Delaware River between Lumberville, Pennsylvania and Raven Rock New Jersey that was built in 1947 (BridgeHunter Website) and the Granite Falls Walking Bridge over the Minnesota River in Granite Falls, Minnesota built in 1935 (BridgeHunter Website). Both of these bridges look quite different than the Androscoggin Bridge, were built much later, and they consist of multiple spans with intermediate piers and appear to be longer in total length.

This bridge is also one of three remaining pedestrian swinging bridges in Maine. The other two bridges are located in Waterville (known as the Two Cent Bridge, originally constructed in 1901) and in Skowhegan (originally constructed by John Turner in 1883).

Comparable Projects

As noted above, while there are numerous pedestrian suspension bridges, this bridge is one of three remaining pedestrian suspension bridges in the State of Maine and it may be one of three remaining pedestrian suspension bridges in the United States that were constructed by John A. Roebling's Sons Company.

Unique Features or Characteristics

Given the notoriety of John A. Roebling Sons Company' other suspension bridge projects, we believe, that this feature alone is worthy of special recognition. Secondly, the bridge's critical role in the economic growth of the Brunswick-Topsham area in the early 1900's and its shift in use to more recreational and educational uses today is vitally important to the communities of Brunswick and Topsham. Finally, the repair of the bridge in 1936 by the WPA is also important and relevant, especially in today's economy. The WPA was initiated by President Franklin Delano Roosevelt and was the largest "New Deal" agency. This agency employed millions of Americans after the depression, working on projects such as public works, art, media and literacy projects.

Contribution & Significance of Structure

As noted previously, the bridge is one of three remaining pedestrian suspension bridges in the State of Maine. Its significance is primarily regional in nature, in that it contributed and spurred the economic growth and development of the Brunswick-Topsham area in the Industrial Era and it was originally built by a very well known bridge designer and construction company. The bridge served as a vital link, providing an easy pedestrian route for mill workers who lived in Topsham to access the Cabot Mill and commercial areas in Brunswick. Today, it still provides a short way for Topsham residents to access the downtown Brunswick area, as well as providing an important recreational link for walkers, runners, bicyclists and other outdoor activities.



References

- Bridge Hunter Website, <http://bridgehunter.com/>.
- Bridgemeister Website, <http://bridgemeister.com/>. Website inventories "mostly suspension bridges" throughout the world, by David Denenberg.
- Maine Historic Preservation Commission. National Register of Historic Places Registration Form for Androscoggin Swinging Bridge. Prepared by Christi A. Mitchell, Architectural Historian, 19 May 2003.
- Maine Geological Survey Website, <http://www.maine.gov/doc/nrimc/mgs/explore/hazards/flood/sites/mar97.htm>
- NOAA Website, <http://www.erh.noaa.gov/nerfc/historical/mar1936.htm>
- Save Our Swinging Bridge Website, <http://www.saveourbridge.org>.

UMaine Engineering Job Fair

Greetings,

The University of Maine Career Center and the College of Engineering would like to invite your company to attend our fall Engineering Job Fair on Wednesday, October 19, 2011, from 10:00 am - 3:00 pm in the Student Recreation and Fitness Center.

The Engineering Job Fair at the University of Maine provides an important opportunity for engineering students and employers to meet face-to-face and informally interview for potential jobs and internships.

Your \$400 fee includes an 8-foot table, chairs, a continental breakfast, and a lunch. You are encouraged to bring a display and/or informational materials about your company to share with students and faculty. Student volunteers, who include engineering students eager to make good impressions, will be on hand to assist with unloading and loading your display materials.

The College of Engineering is the sole institution in Maine to offer 11 engineering and engineering technology majors and full M.S. and Ph.D. programs, granting nearly 300 degrees annually. Our undergraduate degree programs include:

Engineering

- BS Biological Engineering
- BS Chemical Engineering
- BS Civil Engineering
- BS Computer Engineering
- BS Electrical Engineering
- BS Engineering Physics
- BS Mechanical Engineering

Engineering Technology

- BS Construction Management Technology
- BS Electrical Engineering Technology
- BS Mechanical Engineering Technology
- BS Surveying Engineering Technology

SPONSORSHIP OPPORTUNITIES

Increase your company visibility by sponsoring the Engineering Job Fair:

UNDERWRITER (\$3,000)

Premier location for table at Engineering Job Fair. Recognition as a sponsor in all Engineering Job Fair publicity. Waived fees for six attendees.

SUPPORTER (\$2,000)

Prime location for table at Engineering Job Fair. Recognition as a sponsor in all Engineering Job Fair publicity. Waived fees for four attendees.

FRIEND (\$1,000)

Recognition as a sponsor in all Engineering Job Fair publicity. Waived fees for Engineering Job Fair for three attendees.

2011 ENGINEERING JOB FAIR REGISTRATION - \$400 Fee

- 1) Register Online at <http://www.umaine.edu/career/upcoming-events/engineering-job-fair> and click on "Employers may now register for the fair!".
- 2) Under New Participants - click on "Proceed to Registration Form" and complete form.
- 3) Submit the registration form. You will receive an email confirming that your registration has been received.

NOTE: The Career Center hosts two major Career Fairs on campus each year, including the Career Fair and the Engineering Job Fair, giving employers two distinct and strategic opportunities to reach quality UMaine graduates.

SAVE THE DATE! The 2012 Career Fair is planned for Wednesday, February 1, 2012 (<http://www.umaine.edu/career/upcoming-events/career-fair>) and we hope that you can attend both events. Engineering companies have found this latter event to provide an excellent follow-up to the focused Engineering Job Fair.

Questions? Call the Career Center at 207-581-1359 or email us!

Patty Counihan, Director, Career Center – patty.counihan@umit.maine.edu Cathy Marquez, Assistant Director, Employer Relations, Career Center cathy.marquez@umit.maine.edu

Best regards,

Patty Counihan - Director, Career Center Dana N. Humphrey - Dean, College of Engineering

2011 | ASCE 141st ANNUAL CIVIL ENGINEERING CONFERENCE

OCTOBER 20-22, 2011 • MEMPHIS, TENNESSEE



Please complete the registration form including signature and payment information. Use one registration form per person. Registrations will not be processed without full payment and registrant's full name. By submitting the registration form the individual agrees to all registration policies on ASCE's Conference website.

Contact Information * Indicates Required Information

*First Name _____ MI _____ *Last Name _____
 Credentials _____ Badge Nickname _____
 *Company/Organization/University _____
 *Street Address/PO Box _____
 *City _____ *State _____ *Postal Code _____ Country _____
 *Work Phone _____ Home Phone _____ Cell Phone _____
 Fax _____ *E-mail _____
 ASCE Member Number _____ *If Cooperating Org Member, Name Organization _____

Please answer these questions so we may serve you better (* Indicates Required Information):

- *1 The organization I work for is: Private Government Education Military Other
 *2 My position is: Partner/Principal Senior Manager Middle Manager Technical/Professional Staff Faculty Student Retiree
 *3 How many previous ASCE Conferences have you attended? 0 1 2 3 or more
 *4 My age group: Under 25 25-34 35-49 50-65 Over 65

Check here if you require special meals: Vegetarian Lacto-Vegetarian Ovo-Vegetarian Vegan
 Check here if you have allergies to the following: Peanuts Tree nuts Seafood Other
 Check here if you require specific aids or services:
 Deaf or Hearing Impaired Blind or Visually Impaired Wheelchair Bound Other _____

REGISTRATION FORM

Fax: (703) 295-6144
 Phone: (800) 548-2723 (U.S.)
 Phone: (703) 295-6300 (International)
 Mail: ASCE Annual Conference 2011
 PO Box 79668
 Baltimore, MD 21279-0668 USA

Join ASCE today and SAVE.
 Simply visit www.asce.org/join
 or call (800) 548-2723
 to request an application.

Register by August 3, 2011 and Save!
 For complete Conference information
 and to register online, visit
www.asceannualconference.org.
 For additional information please contact
 Customer Service at
registrations@asce.org
 or call (800) 548-2723.

Full Registration	EB EARLY-BIRD By 8/3/11	ADV ADVANCE By 10/5/11	ONS ON-SITE After 10/5/11
Registration Categories			
ASCE Member	<input type="checkbox"/> \$525	<input type="checkbox"/> \$595	<input type="checkbox"/> \$695
Non-Member	<input type="checkbox"/> \$625	<input type="checkbox"/> \$695	<input type="checkbox"/> \$795
Younger Member	<input type="checkbox"/> \$350	<input type="checkbox"/> \$415	<input type="checkbox"/> \$515
*Full-Time Student	<input type="checkbox"/> \$150	<input type="checkbox"/> \$150	<input type="checkbox"/> \$205

*Full-Time Students must submit valid ID when registration form is submitted. For a detailed listing of what each registration category offers, please visit www.asceannualconference.org and click on Registration.

Full Registrants: Included in your Full Annual Registration fee are the following events. There is no extra charge for these events. However, each registrant must pre-register below in order to receive a ticket to the event.

Celebration of Leaders Luncheon (Thursday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Ice Breaker Reception (Thursday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Leadership Breakfast & Society Awards (Friday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Luncheon (Friday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Continental Breakfast (Saturday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Closing General Session & Luncheon (Saturday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
Student Welcome Breakfast (Thursday - Student Only)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No
CYM Networking Roundtable (Saturday)	<input type="checkbox"/> Yes, I will attend	<input type="checkbox"/> No

Registration Packages Guest Name: _____

Guest Package	EB	ADV	ONS
<input type="checkbox"/> \$165 <input type="checkbox"/> \$190 <input type="checkbox"/> \$215 (Includes: Memphis Orientation, Ice Breaker Reception, and Saturday Continental Breakfast)			

Guest Tours	EB	ADV	ONS
Graceland (Wednesday)	<input type="checkbox"/> \$67	<input type="checkbox"/> \$67	<input type="checkbox"/> \$85
National Civil Rights Museum (Thursday)	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15	<input type="checkbox"/> \$20
Rock n Soul Museum and Sun Studio (Friday)	<input type="checkbox"/> \$40	<input type="checkbox"/> \$40	<input type="checkbox"/> \$60
Gibson Guitar Factory (Saturday)	<input type="checkbox"/> \$10	<input type="checkbox"/> \$10	<input type="checkbox"/> \$15
Graceland (Saturday)	<input type="checkbox"/> \$67	<input type="checkbox"/> \$67	<input type="checkbox"/> \$85

CYM Saturday Package (Includes: Continental Breakfast, Closing General Session & Luncheon, and CYM Networking Roundtable)	<input type="checkbox"/> \$125	<input type="checkbox"/> \$150	<input type="checkbox"/> \$175
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PAYMENT: Full Payment must accompany this registration form.
 No REFUNDS granted for cancellations after September 28, 2011.

Full Registration	\$ _____	<input type="checkbox"/> Check
Registration Packages	\$ _____	(Payable to ASCE Annual Conference 2011. Checks must be issued in U.S. dollars, drawn on U.S. banks.) To pay registration fee by check, postmark your registration by the deadlines indicated above and mail to: ASCE Annual Conference 2011, PO Box 79668 Baltimore, MD 21279-0668 USA
Tours	\$ _____	
Special Events	\$ _____	
Pre-Conference Activities	\$ _____	
Additional Conference Events	\$ _____	
GRAND TOTAL (pay this amount)	\$ _____	<input type="checkbox"/> Purchase Order # _____ (Provide copy of PO Form with your registration form.)

Technical Tours	EB/ADV	ONS	QTY
Beale Street Landing	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____
BNSF's Memphis Intermodal Facility	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____
Autozone Headquarters	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____
FedEx Facilities <input type="checkbox"/> Wed aft <input type="checkbox"/> Wed eve <input type="checkbox"/> Fri	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____
Univ. of Memphis School of Law	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____
Port of Memphis and Intermodal Facility	<input type="checkbox"/> \$45	<input type="checkbox"/> \$60	_____
Student	<input type="checkbox"/> \$25	<input type="checkbox"/> \$35	_____

Special Events * (Additional Tickets Only)	EB/ADV	ONS	QTY
International Luncheon	<input type="checkbox"/> \$50	<input type="checkbox"/> \$75	_____
International Roundtable	<input type="checkbox"/> Complimentary	_____	_____
International Reception	<input type="checkbox"/> \$60	<input type="checkbox"/> \$85	_____
Celebration of Leaders Luncheon*	<input type="checkbox"/> \$50	<input type="checkbox"/> \$70	_____
ASCE Ice Breaker Reception*	<input type="checkbox"/> \$75	<input type="checkbox"/> \$95	_____
Leadership Breakfast & Awards*	<input type="checkbox"/> \$40	<input type="checkbox"/> \$60	_____
Friday Luncheon*	<input type="checkbox"/> \$50	<input type="checkbox"/> \$70	_____
ASCE Theme Party			
Attendee & Guest	<input type="checkbox"/> \$50	<input type="checkbox"/> \$70	_____
Younger Member	<input type="checkbox"/> \$35	<input type="checkbox"/> \$50	_____
Student	<input type="checkbox"/> \$20	<input type="checkbox"/> \$30	_____
Closing General Session Luncheon*	<input type="checkbox"/> \$50	<input type="checkbox"/> \$70	_____

Pre-Conference Activities	EB	ADV	ONS	QTY
Short Courses				
Structural Eng and ER Response Ops	<input type="checkbox"/> \$165	<input type="checkbox"/> \$190	<input type="checkbox"/> \$225	_____
Non-Member	<input type="checkbox"/> \$195	<input type="checkbox"/> \$220	<input type="checkbox"/> \$255	_____
Concrete Design Issues	<input type="checkbox"/> \$165	<input type="checkbox"/> \$190	<input type="checkbox"/> \$225	_____
Non-Member	<input type="checkbox"/> \$195	<input type="checkbox"/> \$220	<input type="checkbox"/> \$255	_____
Seismic Engineering in Memphis, TN	<input type="checkbox"/> \$165	<input type="checkbox"/> \$190	<input type="checkbox"/> \$225	_____
Non-Member	<input type="checkbox"/> \$195	<input type="checkbox"/> \$220	<input type="checkbox"/> \$255	_____

Additional Conference Events & Activities	EB/ADV	ONS	QTY
Order of the Engineer Ceremony	<input type="checkbox"/> \$15	<input type="checkbox"/> \$15	_____
Annual Community Service Project	<input type="checkbox"/> Complimentary	_____	_____

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Maine Water Utilities Association

"Show me the Science"

The Facts Behind Drinking Water Protection Rules



5TH ANNUAL DRINKING WATER PROTECTION SEMINAR



September 20, 2011
Governor Hill Mansion, Augusta, ME

Registration Info

"Show me the Science"
The Facts Behind Drinking Water Protection Rules
Governor Hill Mansion: 136 State St. Augusta, ME

Registration Cost: \$50
After September 15th: \$65

Name: _____

Company Name: _____

Business Address: _____

Phone #: _____

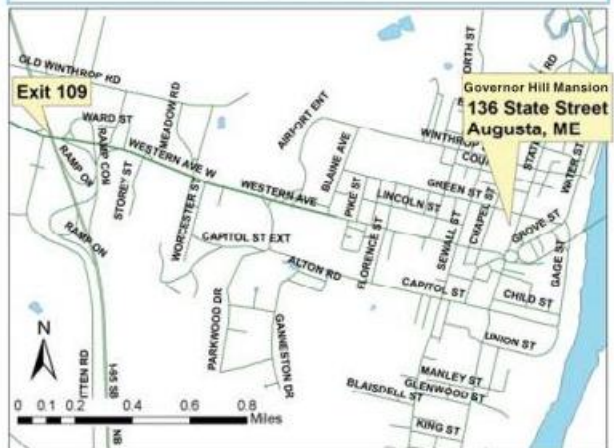
Email Address: _____

Register online by following the registration link found on our website: www.mwua.org

or

Mail registration & payment to:
Maine Water Utilities Association
150 Capitol Street, Suite 5
Augusta, ME 04330
tel (207) 623-9511 / fax(207) 623-9522

5.0 TCH for Water Operator Licensure



About the Seminar

We all need clean and safe drinking water. No one wants water to cost more than it has to. Drinking water science revolves around risk management. This seminar highlights some of the key principles that underpin drinking water rules and regulations. Understanding these core principles helps us make better decisions about where to focus our efforts to maintain secure drinking water. We are fortunate to have attracted experts with significant experience in the science to talk with us about their work.



Who Should Attend?

Water System Managers, municipal decision makers, Land Use Planners, Regulators, Lake Association Directors, Watershed Group Directors, Land Trust Stewards, Professional Engineers and Environmental Consultants

Agenda

8:30am- Registration

- **Welcome and Introduction**
- **Structure and Function of a Watershed Protection Forest-** Paul Barten, UMass Amherst
- **The Development of Drinking Water Standards for Cancer Causing Substances-** Andrew E. Smith, Maine CDC

Break

- **Agricultural Pesticides and Ground and Surface Water Contamination-** Lebel Hicks, Maine Board of Pesticides Control

Lunch (provided)

- **Stormwater Management Demonstration (Outside)-** Dave Mongeau, Hydro International
- **Golden Guidelines of Groundwater Contamination-** Peter Garrett, Emery & Garrett Groundwater
- **Christy's Store in Windham, Maine & MTBE-** David Braley, Maine Drinking Water Program

3:00pm- Adjourn

Discussion Topics

The Structure and Function of a Watershed Protection Forest: Guidance to Managers and Policy Makers

Paul K. Barten, Ph.D., Professor of Forest Resources, UMass Amherst

How do forests, in contrast to other land cover types or uses, influence streamflow and water quality? What is the optimal configuration of a watershed protection forest? How much forest is needed to offset the adverse effects of other land uses in a reservoir watershed? Why are riparian forest buffers especially important and how wide should they be? The default scientific response to all of the above is "it depends" followed immediately by the additional caveat "...more site-specific research is needed." This leaves managers and policymakers—who must make operational and regulatory decisions in the face of uncertainty—wringing their hands and wondering why they even bothered to ask. This presentation will draw upon recent reviews of scientific literature in an attempt to conservatively address the set of questions posed above (along with others)—not with over-simplified generalizations, but biophysical and ecological information to guide decision-making and deductive reasoning in an adaptive management framework.

The Development of Drinking Water Standards for Cancer Causing Substances

Andrew E. Smith, S.M., Sc.D., State Toxicologist and Director of the Environmental and Occupational Health Programs within Maine CDC

It is sometimes assumed that drinking water standards for public water supplies (MCLs) for cancer-causing chemicals all provide similar levels of public health protection. This is not the case. Indeed, the level of protection can differ as much as a 1000-fold. The difference between standards occurs because the Safe Drinking Water Act allows consideration of best available treatment technology taking cost into consideration. This talk will discuss the use of science and risk assessment in developing MCLs, the types of toxicology data relied upon, and the quantitative uncertainties inherent in the risk assessment process.

Agricultural Pesticides and Ground/Surface Water Contamination

Lebel Hicks, Ph.D., Toxicologist, Maine Board of Pesticides Control

Pesticides differ from naturally occurring compounds in that they are inherently toxic to some life forms. On the state level, the Maine Board of Pesticides Control (BPC) is the lead regulatory agency for pesticides. Maine uses the USDA's Windows Pesticide Screening Tool (WIN-PST)

to evaluate active ingredients and the likelihood that these compounds will run off or leach under Maine use conditions. This process is used to determine analytes for the BPCs water monitoring program and for projects such as DEP's permitting for discharges from Blueberry-Cranberry processors. This discussion will address the issues surrounding the potential for pesticides to contaminate ground and surface water in Maine.

Golden Guidelines of Groundwater Contamination and the Costs of No Wellhead Protection

Peter Garrett, Ph.D., P.G., M.C.G., C.G.W.P., Vice President, Emery & Garrett Groundwater, Inc.

Groundwater contamination remains mystifying to some, but there are certain practical issues of waste disposal, quirks of chemistry and physics, and the politics involved in planning that can help unlock the secrets of how to explain and how to avoid groundwater contamination from different sources, which can be considered "golden guidelines." Wellhead Protection is intended to remove the threat of contamination to Public Water Supplies. In several cases where Wellhead Protection was not in place, there were costs associated for dealing with the consequences. Maine has had its share of such cases, including contamination caused by salt, gasoline, landfill leachate, solvents, etc. Is it now possible to consider such contamination a thing of the past?

Christy's Store in Windham, Maine & MTBE

David Braley, Senior Geologist, Maine Drinking Water Program

The 1990 Clean Air Act (CAA) amendments established new standards for air quality. Maine initially proposed a strict car emission testing program as a major component of its CAA compliance plan. In May of 1996, after only four months, emission testing was suspended under great pressure from the general public, dissatisfied with long waits for tests and high costs for repairs when cars failed to meet standards. To make up for the air quality gains anticipated from the car test program, and against great political pressure, Gov. Angus King and the Maine Legislature agreed to participate in the RFG (reformulated gas) program. In May of 1998, a monitoring well located near two wells serving as the source for the North Windham section of the Portland Water District, the state's largest public water supply, was found to contain MTBE at @350 ug/l, 100 times the Maine state MCL of 35 ug/l.

Registration Form

MWWCA 2011 Fall Convention

September 14-16, 2011

Sugarloaf Resort & Conference Center, Carrabassett Valley, Maine

Complete and return this form with your check made payable to:

MWWCA, 60 Community Drive, Augusta, Maine 04330 or Fax registration form to: 207-626-5947

******NO PHONE RESERVATIONS ACCEPTED******

Registration includes seminar fee, materials, Thursday Continental Breakfast & Friday Farmhouse Breakfast and lunches

Deadline for pre-registration is September 8, 2011.

Please use one registration form per attendee. Please copy form as needed.

Name: _____ Title: _____
Employer: _____
Billing Address: _____
City: _____ State: _____ Zip: _____
Phone: _____ Email: _____

REGISTRATION FEES

PRE-REGISTRATION (Postmarked by September 8, 2011):

- Both Days: MWWCA/MWUA Member - \$190.00/person Non-member - \$235.00/person \$ _____
- Day 1 (Thu. Sept. 15): MWWCA/MWUA Member - \$100.00/person Non-member - \$140.00/person \$ _____
- Day 2 (Fri. Sept. 16): MWWCA/MWUA Member - \$95.00/person Non-member - \$135.00/person \$ _____

DOOR REGISTRATION (Postmarked after September 8, 2011):

- Both Days: MWWCA/MWUA Member - \$240.00/person Non-member - \$275.00/person \$ _____
- Day 1 (Thu. Sept. 15): MWWCA/MWUA Member - \$130.00/person Non-member - \$145.00/person \$ _____
- Day 2 (Fri. Sept. 16): MWWCA/MWUA Member - \$130.00/person Non-member - \$145.00/person \$ _____

GUEST ADDITIONAL MEALS: Guest Name: _____

- Wednesday Barbecue Dinner _____ No. of tickets @ \$15.00 each (*this dinner is included in all Golf Registrants*) \$ _____
- Thursday Luncheon _____ No. of tickets @ \$21.00 each \$ _____
- Friday Farmhouse Breakfast _____ No. of tickets @ \$15.00 each \$ _____
- Friday Luncheon _____ No. of tickets @ \$17.00 each \$ _____
- Check here if you plan to attend the Carrabasset Valley WWTF tour Thursday—2:00-4:30 PM \$ _____

(Note: Shuttle will be provided)

TOTAL ENCLOSED (Meals & Registration Fee): = \$ _____

PO # (if applicable):

INQUIRIES: Should you have any questions, please contact the Affiliate Services Office at (207) 623-8428 OR 1-800-452-8786.

CANCELLATIONS: To obtain a refund, you must notify MWWCA by September 8, 2011 (minus a \$10.00 fee for processing).

All cancellations are subject to an administrative processing fee of \$10.00. No refund after September 8, 2011.



2011 MAINE TRANSPORTATION ACHIEVEMENT AWARDS NOMINATIONS

THIS YEAR, ON WEDNESDAY, NOVEMBER 2, 2011, members of Maine’s transportation community will gather to honor leaders in our field – individuals who have made a significant contribution to the state’s transportation system through their vision, leadership, commitment and hard work. This is a lifetime achievement award, and the association is soliciting nominees.

- 1983 Carl Cianchette, Philip Corey, Carlton Reed, Herb Sargent, David Stevens
- 1985 Dan Callahan, Ken Cleaves, Bill Hinman, Dunc McCrae, Leon Williams
- 1987 Phil Boston, Bud Cianchette, Harry Crooker, Mike Greaves, Frank Lee
- 1992 Bob BaRoss, Chuck Cianchette, Galen Cole, Nick DelMonaco, Ralph Leonard
- 1994 Dana Connors, Stephen Dunlap, Frank Healy
- 1997 John Bridge, Otis Graham, Alden Small
- 1999 Kenneth Burrill, Robert Desjardins, Senator William O’Gara
- 2001 Robert Grondin, Jr., Roger Mallar, Elbert Prince
- 2003 Everett Barnard, David Costanzo, Edmund DelMonaco, Sr.
- 2005 Philip Grondin, Sr., Richard Martin, Joseph Rollins, Paul Violette

PLEASE INCLUDE A STATEMENT DESCRIBING WHY YOU BELIEVE YOUR NOMINEE SHOULD RECEIVE THIS AWARD. You may use the back of this form or additional sheets. Please return your nomination form by August 5, 2011 to: MBTA, 146 State Street, Augusta, Maine, 04330, fax (207) 623-2928, or e-mail Deanna@mbtaonline.org.

NOMINEE:

DESCRIPTION

NOMINATED BY: _____

NOMINEE:

DESCRIPTION

MBTA Announcements

DATE: July 22, 2011
TO: MBTA Corporate Members
FROM: Randy Mace, President
RE: Membership Directory, Raffle Tickets, and Upcoming Events

Membership Directory Mailing

Enclosed is information for the MBTA's 2010/2011 MBTA Membership Directory. Please review the information we have for you and let us know about any additions or other changes. We strive to have the best, most accurate information for this publication and we ask for your help to be sure we do. Also enclosed is information on advertising in the Directory, an ideal way to reach transportation leaders across Maine. We distribute the directory to all of our members, and to key officials at MaineDOT, Maine Turnpike Authority and other transportation agencies. Congressional offices and key legislators also receive the directory. Please return your edited information and advertising preference by August 12th.

Raffle Tickets to Benefit MBTA Scholarships

Please find enclosed raffle tickets to benefit our Educational Foundation. The Foundation provides scholarships to Maine residents studying transportation-related fields at the University of Maine, Northern Maine Community College, Southern Maine Community College, Washington County Community College, and Maine Maritime Academy. Additionally, we award Transportation Trailblazers, Kenneth W. Burrill and Millard W. Pray Scholarships to deserving students at different schools.

Raffle tickets are \$5 each or 6 for \$25. The prizes include \$350, \$250 and \$150 gift cards to L.L. Bean. *Please help support the Educational Foundation by returning your tickets with your check in the enclosed envelope.* The drawing will be held at our annual fall convention (see below) on September 11th in St. Andrews. You do not need to be present to win.

Upcoming: Aroostook County Meeting and Convention

I also hope you can join us for our Aroostook County meeting on August 4th at the Northeastland in Presque Isle. Our guest speakers Donald Zillman, UMPI President and Timothy Crowley, NMCC President will discuss "High Energy Education: Wind, wood & sustainable initiatives."

Also coming up is our fall Convention on September 9-11 at the Fairmont Algonquin in St. Andrews, NB. Registration information for both events is available on our website at www.mbtaonline.org. If you prefer to have us mail or fax you the registration information, please let us know by calling (207) 622-0526.

Transportation Achievement Awards

And finally, enclosed is a nomination form for our Transportation Achievement Awards program on Wednesday, November 2. Please nominate a transportation leader today for lifetime achievement award.

If you have any questions about any of the above, please call the MBTA office at (207) 622-0526. As always, thank you for your support!

Advertise with Maine ASCE

Would you like to advertise in the Informant and on the section's website, www.maineasce.org? Take a look at our rates, and contact the editors at Informant@MaineASCE.org with any questions. An order form is available online or directly from the editors.

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

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)

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

Business Cards



Remember, a business card in the Informant and online is a great way to advertise your business! At just \$150 a year, it's a great deal too.

Check back each month to see what new business has advertised here.

Conference Advertising

The Informant is a great place to advertise your events to the Maine civil engineering community!

We are happy to advertise conferences and seminars hosted by professional societies and other non-profit organizations at no charge. Conferences and courses provided by companies operating for-profit, as well as product presentations made by vendors will be published at the listed advertising rates.

ASCE Board & Committee Contacts

ASCE MAINE SECTION CONTACT LIST				
NAME	POSITION	PHONE	COMPANY	EMAIL
Executive Board				
Ralph D. Nelson	President	775-4495	HDR DTA	President@maineasce.org
Will Haskell	President Elect	675-6910	Gorrill-Palmer	pres-elect@maineasce.org
W. Scott Gorneau	Vice President	799-4109	FABCO Industries	vice-pres@maineasce.org
Lauren Swett	Secretary	426-4262	Woodard & Curran	secretary@maineasce.org
Sarah Ashley	Treasurer	848-5714	S.W. Cole	treasurer@maineasce.org
Ellen O'Brien	Director (Year 2)	377-8043	Northstar Hydro, Inc.	Director2@maineasce.org
Nate Cote	Director (Year 1)	356-8755	S.W. Cole	Director1@maineasce.org
Emily Bickford	NH Delegate (Year 2)	487-3311	Cianbro Corporation	Delegate2@maineasce.org
Lynn Farrington	NE Delegate (Year 1)	228-0887	HNTB	Delegate1@maineasce.org
Walter Fagerlund	Past President	228-0886	HNTB	wfagerlund@hntb.com
Committee Chairs				
Travis Noyes	A/E Golf Tournament	989-4824	CES, Inc.	tnoyes@ces-maine.com
Mike St. Pierre	ASCE Exhibit at Children's Discovery Museum	626-0600	S.W. Cole Engineering, Inc.	
Phil Dunn	Awards	581-2326	University of Maine	philip.dunn@unit.maine.edu
Kathy Kern	DEP Task Force Rep.	775-5401	TY Lin International	katherine_kern@tylin.com
John Kenney	DEP Task Force Rep.	947-4511 ext. 242	WBRC Architects & Engineers	john_kenney@wbrcae.com
Kelcy Adamec	Diversity			Diversity@maineasce.org
Erik Wiberg	E-Week Organizing Committee	286-8008	RW Gillespie	ewiberg@rwg-a.com
Greg Blake	History & Heritage Co-Chair	774-5155	HNTB	gblake@hntb.com
Will Haskell	History & Heritage Co-Chair	675-6910	Gorrill-Palmer	whaskell@gorrillpalmer.com
	Public Relations			
Helen Pottle	Informant Co-Chair	518-9500	Tata & Howard, Inc.	Informant@maineasce.com
Ashley Auger	Informant Co-Chair	774-2112	Woodard & Curran	Informant@maineasce.com
Be Schonewald	Legislative Affairs	829-5226	Schonewald Engineering Associates, Inc.	Legislative@maineasce.org
Tim Merritt	Life Member Activities	883-3355	Stantec Consulting Services	tim_merritt@stantec.com
Walter Fagerlund	Membership	228-0886	HNTB	wfagerlund@hntb.com
	Nominating			
W. Scott Gorneau	Program	799-4109	FABCO Industries	vice-pres@maineasce.org
Leslie Corrow	Scholarship	487-3328	Kleinschmidt Associates	Leslie.Corrow@KleinschmidtUSA.com
Jeremy Bragg	School Age Outreach	679-2569	Cianbro	jbragg@cianbro.com
Ellen O'Brien	Technical Seminar	377-8043	Northstar Hydro, Inc.	Director2@maineasce.org
Peter Merfeld	Transportation Conference	871-7771 ext. 116	Maine Turnpike Authority	pmerfeld@maineturnpike.com
	Infrastructure Report Card 2012			
Will Manion	Umaine Faculty Advisor	581-2184	University of Maine	wmanion@maine.edu
Kevin Merrill	UMaine Student Advisor/Practitioner	887-3465	Stantec Consulting Services	kevin_merrill@stantec.com
Ralph D. Nelson	Transportation Conference	775-4495	HDR DTA	President@maineasce.org
	Webmaster			
Lauren Swett	Younger Members	426-4262	Woodard & Curran	secretary@maineasce.org

-- Don't forget, there's lots of information available online www.maineasce.org and www.asce.org --



Maine ASCE is Going Green!
Please Think Before You Print



Maine Section ASCE Informant
c/o Helen Pottle
Tata & Howard, Inc.
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Portland, ME 04102