



# THE INFORMANT

## NEWSLETTER OF THE MAINE SECTION ASCE

MAY 2006

### UMAINE CONCRETE CANOE TEAM HEADING TO NATIONALS

Some of you UMaine Civil Engineering Alumni might remember the University of Maine Concrete Canoe Team from your days as a student. In case you have forgotten or don't know about it, the Concrete Canoe Team competes annually with students from around the country. Their competition consists of both physical and academic challenges. The Team designs and builds a canoe out of concrete and then are judged on their design. They are required to write a technical paper as well as present the design in the form of a display during the competition. A series of races are also performed as part of the event. The Team's score is based on their paper, presentation, aesthetics of their canoe, and race placement. This year's UMaine Team did us all proud at their Regional competition at UMass Dartmouth – they placed 2<sup>nd</sup> in the paper, presentation and aesthetics and placed 1<sup>st</sup> in the race!

The Team will be going to Nationals in June in Oklahoma. They would certainly appreciate any donations members of the professional community might be able to give. If you would like to help them get to Oklahoma, please contact Riley Adams at [Arthur\\_Adams@umit.maine.edu](mailto:Arthur_Adams@umit.maine.edu). You can also contact the editors for more information. Congratulations, Team!



The 2006 UMaine Concrete Canoe Team with their winning boat, *The Arrrregate*.

### FROM THE EDITORS

We have a full issue this month. At left you can read about the UMaine Concrete Canoe Team's recent victory. You will see the final message from outgoing President, Bob Chaput on page 3. There is info on an upcoming symposium later this year celebrating John Roebling, the famed engineer of the Brooklyn Bridge. We also feature an article about the new MTSC Transportation Speakers Bureau. And of course, there are two Employment Opportunities on page 6 and two Continuing Ed opportunities on page 7.

On page 2 we have info about our exciting Annual meeting on May 18<sup>th</sup> in Portland, where we will be dedicating the Portland Observatory as a National Historic Civil Engineering Landmark. The Annual meeting this year is packed full of activities, including a cruise around Portland Harbor, our annual awards for the Engineer and Younger Engineer of the Year, and induction of the new Board. We will also be honoring longtime Maine Section Board member, Dirk Brunner, who retired this past December. We hope to see you there! Have a great summer!

*Patti Korbet and Walter Fagerlund*

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Reservations are  
due by Thursday,  
May 11th



Maine Section ASCE Annual Meeting & Program  
The Pavilion, Portland  
Thursday, May 18, 2006  
[www.maineasce.org](http://www.maineasce.org)

**Schedule of Events:**

**3:30** Park at Temple St. parking garage (11 Temple St. @ Nickelodeon Theater, \$1/hr), Fore St. parking garage (419 Fore St. across from Gritty's), or paved lot at corner of Center and Fore St. (by Brian Boru's, \$5 flat). See <http://www.portlandmaine.com/directions.html> for more details. Board Mermaid Trans. shuttle vans at The Pavilion (188 Middle St., across Middle St. from the Nickelodeon) to Custom House Wharf (vans will make several trips to accommodate everybody or it is about a 7 block walk to dock near the Comedy Connection).

**4:00-5:30** Casco Bay Cruise with Social Hour, Hors d'oeuvres, and Portland Observatory National Historic CE Landmark presentation aboard the Casablanca (85ft custom catamaran).

**5:30-6:00** Dock and board shuttle vans or walk back to Pavilion.

**6:00-7:15** NE Lobster Dinner

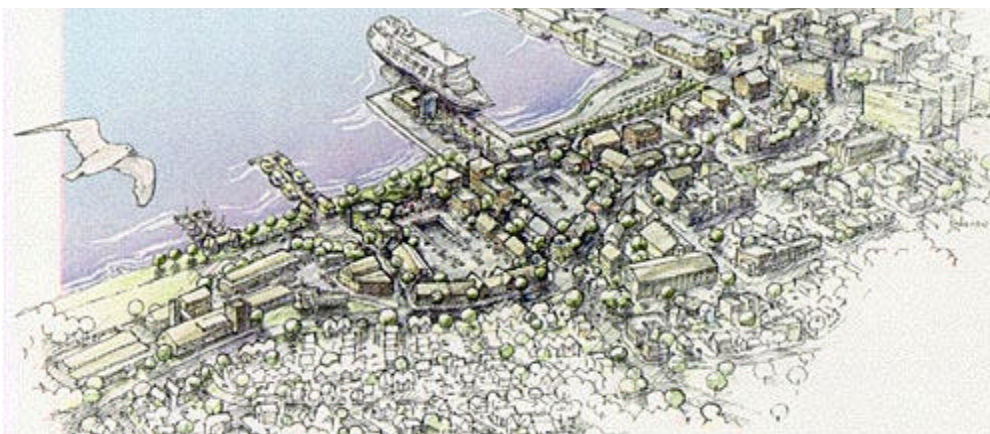
**7:15-8:00** Presentation on the Ocean Gateway Project by Paul Pottle (MDOT) & Barry Sheff (Woodard & Curran)

**8:00-8:45** Awards & Program (Civil Engineer of the Year, Younger CE of the Year, Scholarship winners, and 2006-2007 officer induction)

**Price:** \$35/pp for ASCE members & guests, \$20/pp for students, retirees, or unemployed. Please add \$5 for non-members and registrations after May 11<sup>th</sup>. Make check payable to Maine Section ASCE. ASCE reserves the right to bill no shows.

**Contact:** Tim Merritt, Maine Section Vice President  
T.Y. Lin International  
5 Fundy Road  
Falmouth, ME 04105  
[tmerritt@tylin.com](mailto:tmerritt@tylin.com), (207) 781-4721, x219

Name: \_\_\_\_\_  
Member #: \_\_\_\_\_ Non-member: \_\_\_\_\_  
Lobster: \_\_\_\_\_ Steak: \_\_\_\_\_ Cruise: \_\_\_\_\_ No Cruise: \_\_\_\_\_  
**For those interested in golf before the cruise, please contact Peter Merfeld @ 485-2036 or [pmerfeld@maineturnpike.com](mailto:pmerfeld@maineturnpike.com)**



Maine Section  
ASCE would like to  
thank our gracious  
meeting sponsors!!!  
  
Maine Turnpike  
Authority  
&  
University of Maine  
Engineering  
Outreach

## FROM THE PRESIDENT

*Robert E. Chaput, Jr., PE*

It's hard to believe that we are finalizing plans for our annual meeting to be held May 18, 2006, signifying the end of another year and my term as your President. Our board served you well in 2005 – 2006 and we should be thankful for a job well done. Let's take a moment and look back at what we accomplished:

- ✓ The younger members group, chaired by Jennifer Tooley, attended a Red Sox game in September and has held a training session on purchasing a home. The training session was one of three with the next two in the coming months. The topics are preparing for the P.E. exam and financial management.
- ✓ Vice President Tim Merritt chaired the monthly meeting committee, which provided five very informative, well organized dinner meetings. Our first dinner meeting, held in September, was a tour and presentation of the Portland Observatory, which was submitted for recognition as a National Historic Civil Engineering Landmark. The submittal was accepted by National ASCE and we will be performing a dedication ceremony at our May meeting.
- ✓ Once again, in December, we were a sponsor of the Transportation Conference. The conference provided both a policy and technical track. I was privileged to moderate the lunch program, which featured Governor Baldacci, Congressman Tom Allen and Congressman Michael Michaud.
- ✓ Second Year Director Walter Fagerlund chaired the technical seminar held in March. Over 100 were in attendance that featured a wide array of civil engineering topics.
- ✓ Secretary Erik Wiberg applied again this year for a SPAG grant for ASCE to cover costs associated with E-week activities. We received a SPAG grant in the amount of \$7,500, which was used for advertising and outreach activities during E-week. Be Schonewald also submitted an application for a SPAG grant in order to update and re-print 4,400 copies of our Historic Landmark brochure, which is provided to tourism sites throughout Maine. We received a SPAG grant in the amount of \$2,350 for said activities.
- ✓ We had eight entries to our Model Contest this year - by far the most of any past years.
- ✓ President Elect Peter Merfeld and Be Schonewald reviewed and have recommended changes to our By-laws/Constitution that will be provided shortly to you for voting.

I know there are many more things that were accomplished in 2005-2006 but those are some of the major highlights. I look forward to the May meeting and not because my term as President is over. It is the culmination of the end to a very successful year, where we get to honor our future engineers (scholarship winners), our best engineers (younger CE and CE of the year awards), and our distinguished engineers (life members). Please join me on May 18th as we celebrate the past year and look to the future by inducting the officers for 2006-2007.



## JOHN A. ROEBLING SYMPOSIUM AND TOURS

*October 27 – 29, 2006*

*Brooklyn, New York*

In honor of the 200th anniversary of John A. Roebling's birth, the History & Heritage Committee (HHC) and the New Jersey and Metropolitan Sections of ASCE invite you to celebrate his genius and influence on the development of the civil engineering field. On Friday, October 27th, attend a Symposium at the Marriott Hotel by the Brooklyn Bridge which will include presentations on his and his family's projects. On Saturday there will be a full-day motor coach tour of several Roebling-related projects including the Delaware Aqueduct. Finally, this event will climax on Sunday with a walking tour of the Brooklyn Bridge and other sites of interest in New York City.

For more information on this special event, please go to [http://www.asce.org/history/roebling\\_06.cfm](http://www.asce.org/history/roebling_06.cfm).

If you have any questions, please contact Carol Reese ([creese@asce.org](mailto:creese@asce.org)), staff contact for the HHC.



## MTSC ESTABLISHING A TRANSPORTATION SAFETY SPEAKERS BUREAU!

The Maine Transportation Safety Coalition was formed in 1997 to provide agencies, companies, and all those interested in transportation safety a forum to help identify common goals and objectives and explore opportunities to work together to reduce injuries and save lives. Our mission is straight forward, *"To Promote Safe Transportation in Maine"*. In our efforts to promoting safe transportation throughout our state, our volunteer members share common beliefs, agree on basic principles, and have a driving passion to make Maine a safer place for all. We are fortunate to have a Board of Directors; governed by our by-laws with a mission supported by realistic goals, objectives and strategies all enhanced by our annual activity plan. The Coalition sponsors transportation safety conferences, conducts regular meetings featuring transportation safety topics, as well as develops and promotes important safety initiatives. These initiatives include the promotion of Safe Communities, establishment of a seat belt initiative, and the development of our State's annual Transportation Safety performance evaluation report know as *"The Status of Transportation Safety in Maine"*. In addition to all of our current safety initiatives, I am pleased to announce that The Maine Transportation Safety Coalition (MTSC) is expanding our services to include the formation of a transportation safety Speakers Bureau. As I've already stated, the MTSC was formed to promote safe transportation in Maine but we also serve as a transportation safety resource for our State. For the MTSC to effectively achieve these goals, it is critical that we as a Coalition continue to provide quality services to all of our customers. MTSC takes great pride in the quality of information and assistance that we provide. We support effective communication, coordination, and cooperation in combining these strategies to identify solutions. The MTSC believes that using a combination of strategies aimed at education, enforcement, engineering, emergency medical services, encouragement, and legislation can best solve our transportation safety challenges. With the formation of our new Speakers Bureau, we are further enhancing our ability to save lives through providing knowledge and promoting best practices.

The strength of the MTSC is based on our diverse membership of volunteers and staff assigned from our core agencies. Agencies, organizations and companies representing a wide array of transportation modes and transportation safety disciplines uniquely represent the MTSC. This broad membership serves as the core of our resources that support our new Speakers Bureau.

The MTSC is thrilled that we are able to offer this new resource. If you are looking for a transportation safety professional to kick-off your meeting or address your staff or organization, we have the technical or policy level resources to meet your needs. For more information regarding MTSC's Speakers Bureau please contact Mona Petrick, Program Committee Chair, at 207-622-8350 X-100 or visit our web page, [www.themtsc.org](http://www.themtsc.org).



### 2006 A/E CHARITY GOLF EVENT

Planning for the 2006 A/E Charity Golf Tournament is under way and we welcome all interested parties to help in the planning for a fun day of golf and support of our many worthy charities. The fourteenth annual golf event will be held once again at Spring Brook Country Club in Leeds, Maine. The date will be June 9th, rain or shine. Contact Jim Wilson ([jwilson@woodardcurran.com](mailto:jwilson@woodardcurran.com)) or Travis Noyes ([tnoyes@woodardcurran.com](mailto:tnoyes@woodardcurran.com)) to find out how you can help with fundraising or planning for this year's tournament.

Hole sponsorships are available at \$250 per hole. If you know of a vendor or another consultant that might be willing to support our charity event, please give us a call or email so we can contact them and solicit their support.

In 2005 we had 24 teams from approximately 21 companies take part with nearly \$6,000 of tournament proceeds going to the University of Maine at Machias, and the University of Maine Civil Engineering Department Pacesetter Endowment Scholarship Fund. Through the generous support of our participating engineers, architects and our many sponsors, ASCE has donated over \$56,000 to youth charities and education in the State of Maine.

Join us on June 9th and help us exceed last year's charitable donations. You'll have a fun day of golf, a nice barbeque lunch, and you may even win a prize in our raffle which in the past has included Red Sox luxury booth seats, Patriots preseason tickets, Cobra drivers, Odyssey putters, golf bags, and more. The registration form is on the following page. Invite your colleagues from other firms to join us!

## 2006 MAINE A/E CHARITY GOLF TOURNAMENT

WHO: Maine Engineering, Architectural and Related Businesses  
 Individuals invited, we can pair you up

WHAT: 4-Person Scramble, Charity Golf Tournament

WHEN: Friday, June 9, 2006

TIME: Tee Off is Scheduled for 10:00 A.M.

WHERE: Springbrook Country Club, Leeds, Maine



ENTRANCE FEES: **\$280/Team-\$70/Individual** (Includes green fees, awards, and banquet.)  
**Carts are the responsibility of the individual players; call the course to reserve a cart.**

**Please Make checks payable to Maine Section - ASCE**

**SPACE IS LIMITED TO FIRST 32 REGISTERED TEAMS.  
 2005 Tournament fielded 24 teams**

**Questions and Registration should be directed to:**

**Jim Wilson**  
**WOODARD & CURRAN**  
**One Merchants Plaza**  
**Bangor, ME 04401**  
**Tel: 945-5105**  
**Email: [jwilson@woodardcurran.com](mailto:jwilson@woodardcurran.com)**

**Travis Noyes**  
**WOODARD & CURRAN**  
**One Merchants Plaza**  
**Bangor, ME 04401**  
**Tel: 945-5105**  
**Email: [tnoyes@woodardcurran.com](mailto:tnoyes@woodardcurran.com)**

**Registration Form:**

Company: \_\_\_\_\_

Telephone No. \_\_\_\_\_

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

Contact: \_\_\_\_\_

\_\_\_\_\_

E-Mail: \_\_\_\_\_

Team Member	18 Hole Score	Team Member	18 Hole Score
_____	_____	_____	_____
_____	_____	_____	_____

# Employment Opportunities

## CIVIL ENGINEER - MODELER

Portland, Maine

Devine Tarbell & Associates, Inc. is looking for a Civil Engineer with experience and knowledge in hydrologic and hydraulic analysis and strong abilities in the development and use of computer software applications. The primary responsibilities will be to perform analysis of the operation of hydropower projects and river systems in support of design, and environmental evaluations under federal and state licensing requirements

The ideal candidate will be a Registered Professional Engineer and have a MS in Civil Engineering with an emphasis in water resources; specifically hydrology and open channel hydraulics. The ideal candidate will have strong programming skills in Visual Basic and .Net. Minimum qualifications for this position are: BS in Civil Engineering or other related technical field; and one year experience in programming in Microsoft Visual Basic or Visual Basic for Applications.

The candidate will have the ability to develop and use CHEOPS™, an in-house proprietary software application that simulates the operation of reservoir and hydropower facility systems. The candidate will work closely with clients to develop model operations logic to simulate actual operation of hydropower projects.

Salary: Commensurate with experience and education.

Cover Letter and resume to: [hr@devinetarbell.com](mailto:hr@devinetarbell.com)



## SENIOR GEOTECHNICAL ENGINEER

S. W. Cole Engineering, Inc. is accepting applications for a full time position in Southern Maine.

Minimum Qualifications: BS/BA in Geotechnical Engineering, 7-10 years project management and consulting experience, Maine PE Registration. Excellent verbal and written communication skills, technical skills, client relations, and proven management ability required. This position offers professional growth and opportunity for the right individual.

## GEOTECHNICAL ENGINEER

S. W. Cole Engineering, Inc. is accepting applications for a full time entry level position in Southern Maine.

Minimum Qualifications: BS in Civil Engineering with a focus in Geotechnical, 0-3 years of experience. Requirements include strong verbal and written communication skills, technical skills, client relations, and EIT Registration (or ability to obtain within 6 months). This position offers professional growth and opportunity for the right individual.

S. W. Cole Engineering, Inc. employees earn competitive wages and are offered a generous benefits package, including medical, dental, life and disability insurance, FSA, 401k and profit sharing. To apply, in confidence, please send a letter of application and resume, or apply in person to:

S. W. Cole Engineering, Inc.  
Attention: Paul F. Kohler, P.E.  
286 Portland Road  
Gray, Maine 04039-9586  
[infogray@swcole.com](mailto:infogray@swcole.com)  
<http://www.swcole.com>

EOE

# Continuing Education Opportunities

FMI: See the Maine Section Website

## 25<sup>th</sup> ANNIVERSARY UPDATE – 25 MAY 2006

Worcester Polytechnic Institute

Fuller Labs, Perreault Lecture Hall: 1:15 PM to 8:00 PM

*co-sponsored by*

**STEEL FABRICATORS OF NEW ENGLAND  
AISC and WPI**

### Topics include:

- **DESIGN!!!**  
James Fisher, PE, AISC J. Lloyd Kimbrough Award Recipient  
Computerized Structural Design, Milwaukee, WI
- **NCSEA's NEW STRATEGIC PLAN**  
Vicki Arbitrio, PE, SECB, President, NCSEA  
Gilsanz Murray Steficek, New York, NY
- **DESIGN of STEEL STRUCTURES for RESISTANCE to PROGRESSIVE COLLAPSE**  
Ronald Hamburger, PE, SE, SECB, 2006 TR Higgins Award Recipient  
Simpson Gumpertz & Heger, San Francisco, CA
- **KATRINA's TRIFECTOR: Flood, Wind & Storm Surge**  
David Granpre, PE, C.A. Pretzer Associates, Cranston, RI
- **PROPOSED STRUCTURAL PROVISIONS: 7TH EDITION, MASSACHUSETTS STATE BUILDING CODE**  
Joseph Zona, PE, SECB, Simpson Gumpertz & Heger, Waltham, MA

**Fee:** \$69 per person. Free for full time Educators and Students

**Four (4) PDH** will be awarded to attendees.

Check payable to: "SSFNE" and mailed to:

Emile W.J. Troup, P.E., SECB  
PO Box 663, Canton, MA 02021

## SEAM – STRUCTURAL ENGINEER'S ASSOCIATION OF MAINE

May 16<sup>th</sup>, 2006 – Village Café, Newbury St, Portland, ME

### **Subject:** *Strengthening of Existing Concrete Structures – 1.5 PDH*

Retrofit and upgrade of concrete structures is a scientific art that has been practiced for many years. This art has evolved into a complex science that utilizes traditional construction methods including the use of conventional cement-based materials, as well as new techniques that involve the use of advanced composite materials (FRP) commonly used for aerospace and military applications. The upgrade of existing structures can be far more challenging and complex than new construction. Methods of repair include section enlargement, external post-tensioning, externally bonded steel plates, externally bonded carbon fiber reinforced composites, or possibly a combination of these techniques to achieve the desired load carrying capacity. The presentation will describe these different techniques for upgrading concrete structures.

### **Speaker:**

**Jay Thomas** is a vice president Structural Preservation Systems, Inc. He has a 25 years of construction experience in the repair/strengthening in commercial and industrial facilities. He has been involved in many concrete strengthening projects. Jay is an engineering graduate of the University of Pennsylvania and is a member of ACI (American Concrete Institute) committees 440 (FRP) and ACI 437 (Strength Evaluation of Existing Concrete Structures), and ICRI (International Concrete Repair Institute).

### **Agenda:**

4:00 pm-5:00 pm B.O.D. Meeting  
5:00 pm -6:00 pm Social Hour  
6:00 pm-7:00 pm Dinner  
7:00 pm-8:00 pm Presentation  
8:00 pm-8:30 pm Questions

**Cost:** Member: \$30.00

Non-Member: \$40.00

**Dinner:** Choice of Baked Stuffed Haddock w/baked potato, Chicken or Eggplant Parmigiana w/spaghetti, 8 oz. Choice New York Sirloin. Dinner includes salad, choice of coffee, tea or soda and Chocolate Mousse for dessert.

**Contact:** Phil Kirchner, Treasurer

*Email:* phillip.kirchner@devinetarbell.com

*Phone* (207) 239-3825

**Please feel free to pay at the door but make sure to RSVP with Phil and please include your meal choice so we can provide for the appropriate amount of seating.**

*Make Checks payable to 'SEAM'*

**ASCE MAINE SECTION CONTACT LIST**

**2005-2006**

<i>NAME</i>	<i>POSITION</i>	<i>PHONE</i>	<i>FAX</i>	<i>E-MAIL</i>
<b>Executive Board</b>				
Bob Chaput	President	626-0600	626-0700	bchaput@swcole.com
Peter Merfeld	President Elect	871-7771 ext. 116	879-5567	pmerfeld@maineturnpike.com
Tim Merritt	Vice President	781-4721	781-4753	tmerritt@tylin.com
Erik Wiberg	Secretary	286-8008	286-2882	ewiberg@rwg-a.com
Chris Taylor	Treasurer	781-4721	781-4753	ctaylor@tylin.com
Walter Fagerlund	Director 2nd Year	774-5155	772-7410	wfagerlund@hntb.com
Adam Meyer	Director 1st Year	557-6339	945-0195	cmahm@hotmail.com
Jeremy Bragg	NE Delegate 2nd Yr.	487-3328	487-3124	Jeremy.Bragg@KleinschmidtUSA.com
Kathy Kern	NE Delegate 1st Yr.	775-5401	772-4762	KEKern@mactec.com
Eric Landis	Past President	581-2173	581-3888	landis@maine.edu
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Ralph Nelson	Webmaster	775-4495	775-1031	Ralph.Nelson@DevineTarbell.com
Jennifer Tooley	Younger Members	879-9190	879-0099	jtooley@gza.com
Matt Gill	Younger Members			
Eric Landis	UMaine Student Chapter Advisor	581-2173	581-3888	landis@umit.maine.edu
Be Schonewald	Membership	879-9190	879-0099	schonewald@gza.com
Kitty Breskin	Public Relations	624-3396	624-3481	kitty.breskin@maine.gov
Kitty Breskin	A/E Legislative Task Force Rep.	624-3396	624-3481	kitty.breskin@maine.gov
David Kamila	DEP Task Force Rep.	878-3313	878-0201	dkamila@landuseinc.net
Phil Dunn	Awards	581-2326	581-2183	philip.dunn@umit.maine.edu
Leslie Corrow	Scholarship	487-3328	487-3124	Leslie.Corrow@KleinschmidtUSA.com
Phil Dunn	Model Contest	581-2326	581-2183	philip.dunn@umit.maine.edu
Greg Blake	History & Heritage	774-5155	772-7410	gblake@hntb.com
Tim Merritt	Monthly Meetings	781-4721	781-4753	tmerritt@tylin.com
	Storm Water Conf. Rep./ Model			
Kathy Kern	Contest Sponsorships	775-5401	772-4762	KEKern@mactec.com
	ACEC Fall Forum Rep.			
Bob Chaput	Transportation Conf. Rep.	626-0600	626-0700	bchaput@swcole.com
Walter Fagerlund	Technical Seminar	774-5155	772-7410	wfagerlund@hntb.com

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