

GRANITE CHIPS

NEWSLETTER OF THE NH CHAPTER OF ITE

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NHITE FALL MEETING

(By Bob Bollinger, P.E., PTOE – NHITE President)

The New Hampshire Chapter held its fall meeting on October 23, 2007 at the Grappone Conference Center in Concord, New Hampshire. The technical session, “Roundabouts – Lessons Learned,” was presented by Bill Oldenburg, P.E., Chief of Preliminary Design, NHDOT Bureau of Highway Design. The event drew approximately 30 attendees.

Bill indicated that there are currently 12 modern roundabouts in New Hampshire, with 2 more under construction in Keene and Rye, and touched on the following topics of interest: design guidelines; roundabout features; analysis/simulation tools; and crash reduction.



Bill Oldenburg, NHDOT – NHITE Fall Meeting (10/23/07)

Generally speaking, the construction of roundabout can be considered at any location where traffic signal control is proposed. With respect to specific design criteria, NHDOT typically utilizes *NCHRP 572 – Roundabouts in the United States*, published by the Transportation Research Board, and *Roundabouts: An Informational Guide*, published by the Federal Highway Administration.

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A modern roundabout differs from a traditional rotary in many ways. The presence of a **center island**, typically landscaped and separated from the road by a curb, acts a physical barrier to guide vehicles around the roundabout. A **truck apron**, usually made of a material other than asphalt (cobble for example), is used by trucks or other large vehicles, to traverse the roundabout. Typically, it is textured so passenger vehicles do not use it. The truck apron may also be raised slightly, usually 1- to 3-inches, to reinforce the intended prohibition for passenger vehicles. The **circulating roadway** is defined by a narrow width, tight radius, and narrow entry and exit widths. These features combine to keep speeds low, which is a safety benefit. All vehicles approaching a roundabout yield to those vehicles already in the roundabout, which have the right-of-way. This is reinforced with a typical **Yield at Entry** traffic control, featuring a Yield sign and supplemented by a Yield line pavement marking. The presence of a **splitter island**, which separates entering and exiting

Please see *Fall Meeting* on page 4

Brewer Confirmed as New Manchester Airport Director

(By Bob Bollinger, P.E., PTOE – NHITE President)

Following a nomination by Mayor Frank Guinta, the Manchester Board of Mayor and Alderman unanimously confirmed Mark P. Brewer as the new Director of Boston–Manchester Regional Airport on November 20, 2007. It is anticipated that Brewer's swearing in ceremony will be later this month or early January 2008.

Prior to his confirmation, Brewer headed the Rhode Island Airport Corporation, a group of six airports that includes Rhode Island's largest airport, T.F. Green International Airport, and five general aviation airports throughout the state. Brewer was in that position for over three years.

Brewer will take over for outgoing Director, Kevin Dillon, who resigned in April 2007 to accept the position of Deputy Executive Director for Operations at the Greater Orlando Aviation



Mark P. Brewer Confirmed as MHT Director (Union Leader)

Authority, which manages the Orlando International Airport.

In previous public statements, Brewer has indicated that he would like to secure a non-stop flight from Manchester to the West Coast, and that he wants to work closely with surrounding neighborhoods to address airport noise pollution and traffic congestion.

Update on Bob Lee

(By Bob Bollinger, P.E., PTOE – NHITE President)

The New Hampshire Chapter had plans to honor our first Chapter President, Bob Lee, with a special ceremony at which we would establish the Robert M. Lee Past Presidents Award. This ceremony was scheduled to take place at our Fall Chapter meeting on October 23, 2007. However, the day before the meeting, Bob suffered a mini-stroke, during which he also suffered a severe injury to his arm after a fall.

The information we have been able to ascertain from Bob's family indicates that the road to recovery has been slow, and that Bob will not be able to attend our December Business Meeting

either. Accordingly, we are temporarily postponing the establishment of the Award until Bob or a representative of his family is able to attend. Our thoughts are with Bob and his family, especially during this Holiday Season.

2008 Membership Dues

A notice for 2008 NHITE Membership Dues will be sent out soon. Dues will continue to be just \$10 per year. If you are attending the Annual Business Meeting on December 7, you will be able to pay for your 2008 Membership at the event.

President's Message



All good things must come to an end. As such, after two years, I decided against seeking another term as NHITE President. I assure you that the Chapter is in good hands, and will

continue to be so, as long as we have dedicated individuals within the profession who are willing to donate their time and effort for the betterment of the organization.

It has been a great two years, and I hope that all of our members are able to join us at the Annual Business Meeting on December 11, 2007 in Concord, as we welcome the next team of NHITE leaders.

Needless to say, the Chapter is only as strong as the individuals that participate in its administration. Obviously, I want to thank all elected Chapter officers and Committee Chairs for all of their assistance for the past two years. Special thanks go out to Andre Betit, Nick Sanders, and Dave DeBaie, who have been by my side for my entire term. I also want to thank our newcomers, Jean Kennamer, Dave Saladino, and Jeff Santacruce, who were all able to step in at crucial times.

Lastly, I want to wish everyone a happy and safe Christmas season!

Respectfully Submitted,

Robert E. Bollinger, P.E., PTOE
President, NHITE

Election for 2008 NHITE Officers

NHITE is pleased to announce that the following individuals have been nominated for elective officer positions for 2008:

- President – Andre H. Betit, Jr., P.E.
- Vice President – Jean Marie Kennamer
- Secretary–Treasurer – Nicholas B. Sanders, P.E.

Ballots were sent to eligible voting members last month, and will be tallied at the Annual Business Meeting (see meeting information in this newsletter) on December 11, 2007. If you have not cast your vote, please make sure that your ballot is sent to current Secretary–Treasurer Andre Betit. Alternatively, sealed ballots may be turned in at the Annual Business Meeting.

Staff Updates

Resource Systems Group, Inc.

Janet Choi, a Senior Associate with Resource Systems Group recently received her certification as a Traffic Signals Operations Specialist (TSOS). The Transportation Professional Certification Board, an autonomous body affiliated with the Institute of Transportation Engineers, offers TSOS certification to those who demonstrate proficiency in signal principals, signal design and installation, signal timing, and signal operations.

Jenny Austin, PE joins Resource Systems Group as a transportation design engineer. Ms. Austin has nearly ten years of experience in the areas of transportation planning and design, traffic studies and analyses, and feasibility studies. Her recent projects include design and feasibility studies for roadways, sidewalks and shared use paths; conceptual alignment analyses for sidewalks and shared use paths; traffic impact studies; preparation of categorical exclusion documents; and GIS mapping. Jenny is currently the Secretary / Treasurer of the Vermont ITE Chapter.

NHITE Fall Meeting (cont)

vehicles, aligns vehicles in the correct direction to ensure that vehicles travel through the roundabout in the correct counter-clockwise direction. It also creates a narrower opening into the roundabout, helping to slow traffic prior to entering, and acts as a refuge for pedestrians. **Crosswalks** are typically present across each approach to the roundabout. As pedestrians only have to cross one lane of travel at a time, it is easier and safer than most typical types of road crossings.

With respect to analysis and simulation, NHDOT has allowed SimTraffic (version 6.0), which, after some adjustment based on queue lengths, etc., provides a reasonable model. Although not utilized by NHDOT, they have also allowed the use of aaSIDRA and RODEL for modeling and analysis.



US 3/Parade Road Roundabout Construction (NHDOT)

When compared to traditional signalized and unsignalized intersections, data published by the FHWA suggests that there are significant reductions in motor vehicle crashes, in terms of number and severity. This reduction is primarily attributed to the lower travel speeds going through roundabouts, and the reduction in possible conflict points when compared to traditional intersections. Specifically, studies have shown that there are 90-percent fewer fatalities; 75-percent fewer injury crashes; and 35-percent fewer total crashes; and 35-percent fewer pedestrian crashes.

Bill also indicated that NHDOT is in the process of putting some general roundabout design guidelines and information on their website. At the conclusion of his presentation, Bob Bollinger, NH Chapter President, presented Bill with an honorary "Granite Chip" as a token of the NH Chapter's appreciation.

For more details on general roundabout design, please visit on *NCHRP 572* and *Roundabouts: An Information Guide*, please visit the following sites: http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_572.pdf <http://www.tfrc.gov/safety/00068.htm>.

Upcoming ITE Events

ITE 2008 Technical Conference & Exhibit – March 30 to April 2, 2008 – Miami, FL

ITE Northeastern District 1 Annual Meeting – May 28–30, 2008 – Atlantic City, NJ

More details and registration information can be found at the ITE International Web Site, www.ite.org and the New England Section website, www.neite.org.

Employment Opportunities

 <p><i>CLD offers competitive salary, top flight benefits, and a great work environment, full of opportunity, challenge and reward!</i></p> <p><u>Interested candidates:</u> Contact Lisa King at CLD Consulting Engineers 540 Commercial Street, Manchester, NH 03101 Or via e-mail to lisak@cldengineers.com</p>	<p>EXPERIENCED PROFESSIONALS</p> <p>We are seeking a top-notch, talented candidate to lead our Highway Design Team into the future!</p>
	<p>Rare opportunity!</p> <p><u>Manchester, NH</u></p> <ul style="list-style-type: none"> • <i>Highway Design Team Leader</i> <p>See our website for further details regarding this exciting opportunity!</p> <p>www.cldengineers.com</p> <p>CLD is an Equal Opportunity Employer</p>

NHITE Leadership for 2007

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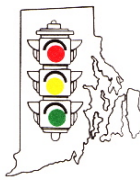
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**MEETING NOTICE - NEW HAMPSHIRE CHAPTER OF ITE
ANNUAL MEETING**

Date: **Tuesday, December 11, 2007**

Location: The Common Man - The House Chamber
25 Water Street
Concord, New Hampshire

Program: 4:00 PM Sign In / Social Hour
5:00 PM Dinner
6:00 PM Presentation

An Update on the NHDOT Traffic Management Center

■ **By William Lambert, P.E.
NHDOT Administrator of the Bureau of Traffic**

PDH Credit: 1.0 PDH is offered for this event

Cost: \$40.00 per person (Dinner). Make checks payable to: NH Chapter ITE. Payment can be made either in advance or at the door.

Directions: FROM THE NORTH & SOUTH: Take I-93 to Exit 13 in Concord. Head north on US Route 3 (Water Street) and the Common Man will be immediately on your right.

Dinner Menu: ***Pick from one of the following:*** Filet Mignon, Stuffed Chicken Fontinell, and Vegetarian Entrée.

Reservations: Please mail, email, or fax reservations, by **Friday, December 7, 2007**, to:

André Betit, Jr., P.E.	Telephone:	(603) 669-8672
Stantec Consulting Services Inc.	Fax:	(603) 669-7636
175 Canal Street, 6 th floor	E Mail:	Andre.Betit@Stantec.com
Manchester, NH 03101-2335		

~~Please submit a separate form for each individual attendee~~

Would you like to receive a PDH Certificate for attendance at this function?

_____	Name	_____
		(as it should appear on the PDH
	Certificate)	
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	City/State/Zip	_____
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	Email	_____

Reservations cancelled after December 7th and/or No-Shows will be invoiced.