

**VERMONT SOCIETY OF ENGINEERS/
APRIL MEETING OF THE VT SECTION OF ASCE**

**94th ANNUAL MEETING
REGISTRATION FORM**

Thursday, April 26th, 2007
Steak House, Berlin, Vermont

AGENDA

10:00 AM – 12:20 PM VSE Annual Meeting, Steak House Restaurant, Berlin, VT
(Lunch will be available at \$ 10 per person)

TECHNICAL PRESENTATIONS, STEAK HOUSE RESTAURANT

12:30 PM Lime Kiln Bridge Project: Sally Gunn, P.E, VHB and Sherward Farnsworth, P.E, VTrans - Lime Kiln Project Managers will make a presentation on the story behind the Lime Kiln Bridge Projects and the historic area. The first quarter of the presentation encompasses the covered bridge of 1860s to 1913, the Lime Kiln historic operations between 1812 to 1971, and the 1913 historic concrete arch design plans and photos of Vermont's first open-spandrel reinforced concrete-arch bridge and it's rehab in 1940. The second part of the presentation deals with the replacement structure type, multiple roadway alignment problems and the final design. The last half of the presentation covers Contract One - the dewatering of the two quarries, plugging the tunnel, and filling the east quarry; then Contract Two – the building of the new concrete arch bridge over the Winooski Gorge, constructing the approach roadways, and removal of the existing 1913 arch.

1:15 PM Energy Unlimited: The Race for Solar Transformation: Lee Johnson, Co-founder and COO, Stellaris Corporation will discuss the current state of the solar industry, including comparative costs, incentives, industry players, and the challenges that the industry faces, as well those of society, as we have entered the 21st century. The presentation will also include a glimpse of future trends and of those who will hold the most power and influence in catalyzing related changes on which our survival may depend.

2:00 PM Geotechnical Engineering on a Grand Scale: The Offshore Frontier: Don J. DeGroot, Sc.D., P.E., of the University of Massachusetts Amherst will present how the offshore frontier creates extraordinary challenges to geotechnical engineers. Oil and gas exploration and installation activities are now approaching water depths of 10,000 feet. Site characterization and infrastructure design in such environments require methods and solutions that are unprecedented in terrestrial applications. Furthermore, offshore geohazards pose a major threat to development projects and coastal population centers. Submarine landslides are one of the most devastating geohazards because they can damage offshore installations and have the potential to cause tsunamis of cataclysmic proportions. This presentation will give an overview of geo-engineering solutions being developed for characterization of offshore sediments, assessment of offshore geohazards, and design and installation of offshore infrastructure.

2:45 PM Break – Refreshments

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3:00 PM Norwich University, the University of Vermont and Vermont Technical College Senior Project Presentations (sponsored by the Vermont Section of the American Society of Civil

Engineers): Come and see first hand the work that students from each of these schools have been studying and exploring. Two presentations from each school will be provided and the professional engineering community will be given the opportunity to ask questions of these esteemed students.

EVENING PROGRAM, STEAK HOUSE RESTAURANT

5:00 PM Social Hour – Cash Bar

6:00 PM Dinner: Buffet Dinner (Roast Beef, Chicken Cordon Bleu, Baked Haddock) Assorted Salads, Scalloped Potatoes, Vegetables, Rolls, Dessert and Coffee

Opening Remarks: VSE President Harry Colombo
Presentation of New Officers by Harry Colombo
Incoming President's Address to the Members

Dinner Price: \$30.00 Student Dinner Price: \$15.00

For dinner reservations: See attached registration form or email me at this address or carolyn.carlson@state.vt.us

7:15 PM "Sustainable Transportation Systems in Vermont"

Guest Speakers: Neale Lunderville, Secretary of the Vermont Agency of Transportation and Dr. Lisa Aultman-Hall founding director of the National University Transportation Center at the University of Vermont.

Neale Lunderville will speak about the Vermont Agency of Transportation's "Road to Affordability" initiative that calls for increasing resources directed at the preservation and maintenance of the state's critical transportation infrastructure like bridges, roads and culverts.

Dr. Lisa Aultman-Hall will answer the question "What is the Role of a University Transportation Center in the 21st Century Transportation System? The university transportation center must be a source for useful and unique data required by professional and policy makers for decision making, design and optimal system operations. The concept of sustainable transportation systems has emerged because our current highway system and development patterns are inherently unsustainable in terms of finance, environmental impact and societal needs. Public transportation agencies, private consultants and community groups all have a role in seeking the transportation solutions needed to advance our communities.

Directions to the Steak House: Take Exit 7 off of I89 onto VT 62. Follow VT 62 and stay to the right, go past the intersection (CV hospital) until you come to the Montpelier/US 302 exit and bear right. At the bottom of the hill (across from Friendly's) turn right (East) onto US 302 and drive approximately one mile and the Steak House Restaurant will be on your right.