

2010 Rochester Engineering Symposium

Sponsored by

Rochester's Technical and Engineering Societies and RIT

April 27, 2010

12-Apr-09

PDH hours will be acceptable in New York State. Schedule subject to change.

7:30 to 8:15	Registration and Continental Breakfast					
8:15 to 8:30	Welcoming Remarks					
	Civil Engineering Sponsored by ASCE	Civil Engineering Sponsored by ASCE	Transportation Sponsored by NYSATE	Electrical Sponsored by IEEE	Mechanical, Plumbing, & Fire Protection Sponsored by ASHRAE and ASPE	Mechanical Engineering Sponsored by ASME
Moderator	Carl Eller	Jim Baker	Chris Sheridan	Dave Krispinski	Jennifer Wengender	Jim Drago
Room						
PDH #					AIA/CES J687 IJR22A	
8:30 to 9:30	Dam Safety Assessments Dave Belaskas	Soil Nail Wall Case Histories-Upstate NY Christopher M. Kenney, PE	Drainage Culvert Restoration with HDPE Dudley Burwell	Fuel Cell Technology Kevin Newton and Eugene Saltzberg	Rainwater harvesting using siphonic roof drains Rebecca Kolstad	AWS- Structural Steel Welding Code D.1 David McQuaid
		Soil Nail Wall analysis, design, construction, and inspection via review of three transportation case histories in Upstate New York	Presentation deals with the restoration of damage culverts with HDPE slip liners.	This presentation will review hydrogen as an energy carrier, Department of Energy Well to Wheels analysis, and General Motors fuel cell program for automotive use.		Discusses the qualification process for welders that will be using AWS D1.1 Standard for new or old steel construction
9:30 to 9:45	Break					
Room						
PDH #						
9:45 to 10:45	Rte 590 Reconstruction Rick Bennett, PE		Wind Power: Community Issues Associated with Utility Scale Wind in New York Mark Tayrien, JD, AICP	Lighting The Great Outdoors: Understanding The Issues Of Lighting Exterior Environments, Part 1 Michael Trippe, LC, MIES	Municipal Water Systems – Their Impact on Plumbing and Fire Protection Systems Richard Henry III, PE	Case Study Steel Pipe Replaced by HDPE Frank Schaff
			Community issues associated with utility scale wind energy in New York: 1) Basic information regarding wind farms and project development. 2) Issues facing local municipalities as they develop local laws to address wind energy in their jurisdiction. 3) Environmental issues such as noise, visual impact		Review the impact that public and private water systems have on building plumbing and fire protection systems. Includes various design considerations including water modeling, pump selection, water quality, water system age, and hydrant flow analysis.	Case Study of a project that had problems with the qualification of procedures and machine operators using HDPE
10:45 to 11:00	Break					
Room						
PDH #						
11:00 to 12:00	Applied Ethics for the Design Professional Mary Beth Rumble and Elizabeth Mullard	Reinforcing Concrete Structures with FRP Jim Derrigan	Sustainable Transportation Activities in New York State Joseph Tario, PE	Lighting The Great Outdoors: Understanding The Issues Of Lighting Exterior Environments, Part 2 Michael Trippe, LC, MIES	Calculating Building Fire Flow Rates Andrew Taylor, PE CFPS	HDPE for Municipal Applications Bill Adams
	Participants will learn definitions of ethics, ethical decision making models, Codes of Ethics, discuss case studies, and understand how companies apply ethics to sound business practices.		NYSERDA has collaborated with the NYSDOT to sponsor the advancement of innovative transportation technologies that strive to improve energy efficiency and reduce adverse environmental impacts. An overview of the GHG transportation issue in New York State will be presented along with numerous		How to use codes and referenced standards to determine the required fire flow rates for water based suppression systems within non-residential buildings.	Presentation gives a basic background of the physical properties, methods of joining, installation, and testing of High Density Polyethylene (HDPE) piping.
12:00 to 1:30	Keynote Speaker William J. Reilly and Scott D. Sherwood- Pictometry- Intelligent Images Advances in Aerial Imagery for Commercial and Governmental Applications - 1 PDH Buffet Lunch					