

Title: Planning and Zoning for Solar

Description: Participants will learn about public engagement techniques for developing solar policies, the legal process in plan making, and nationally accepted best practices and common features found in comprehensive and other local plans. This presentation will also review strategies and best practices for developing a clear, comprehensive and enforceable solar permitting and regulatory framework.

Presenter: Jennie Nolon Blanchard & John Nolon – Land Use Law Center

Learning Objectives:

1. Explain techniques to engage the public on solar policy making.
2. Describe best practices and common features found in local plans.
3. Discuss the environmental benefits from developing and implementing a Salt Management Plan.
4. Identify the potential cost savings from developing and implementing a salt management plan.
5. Analyze strategies and best practices for developing a solar permitting and regulations.

PDH -1

Title: Grant Opportunities (Show Me the Money!)

Description: This presentation will review the new grant landscape.

Presenter: Ed Flynn – LaBella Associates

Title: Blue Book Revisions; Part 1 & 2 Meeting the New Permit (Two hours of content)

Description: This presentation will provide an introduction and review of the Permit updates outlined in DEC's draft 2017 MS4 General Permit. It will also provide an update of the renewal process and public comments received. The EPA's Remand rule and its affect on the MS4 permit process will be shared.

Presenter: John Dunkle, P.E.

Learning Objectives:

1. Identify compliance strategies for then new MS4 Permit
2. Review and discuss the maintenance requirements for specific stormwater management practices
3. Identify the three levels of MS4 SWWP inspections

PDH- 2

Title: Designing Pedestrian Facilities for Accessibility – Part 1 & 2 TWO hours of Content

Description: This presentation will go over the Americans with Disabilities Act (ADA) requirements for State and Local government agencies in the pedestrian rights of way. Topics covered will include ADA design standards, detectable warning systems, and when curbs and curb ramps need to be replaced during roadway projects per UADOJ/FHWA Joint Technical Assistance. Additionally, ADA Transition Plan requirements will be covered and resources for more information on how to create and implement those plans for eliminating barriers in the pedestrian rights of way will be shared.

Presenter: Karen Hogan & Ian Weibel

Learning Objectives:

1. List some of the major AA design guidance from PROWAG
2. State the main features of detectable warnings.
3. List the required elements of an ADA Transition Plan

PDH – 2 CEU .2

Title: National Flood Insurance Program: Part 1 & 2 (Two hours of content)

Flood Maps, Determinations and Map Changes

Description: (More to come)

Presenter: William Nechamen; NYSDEC

Title: Ethical Dilemma; Flint Water Crisis

Description: (More to come!)

Presenter: Wayne McFarland, GHD

Title: A New Plan for Regulating Lake Ontario Levels

Description: I will present the recent agreement between Canada and the United States on the regulation of Lake Ontario water levels. I will summarize the history of planning that preceded the new agreement, including the technical analysis and planning methods used to support this decision. The technical analysis will include an overview of the hydrologic, economic and environmental analysis. The presentation on planning methods will cover the particular planning process used and the continuation of planning in adaptive management.

This presentation will provide the attendees with an overview of the US-Canadian agreement on regulating lake Ontario. They will learn about the History of Lake Ontario regulation, Technical

analysis use in planning the regulation of Lake Ontario, and the implementation decisions and implications of regulation.

Presenter: Bill Werick

Learning Objectives:

1. Demonstrate a good understanding of how Canada and the United States planned to regulate Lake Ontario water levels
2. Discuss the unique institutional setting that made it possible to closely link science and policy
3. Identify the practical implementation of adaptive management to improve the regulation results over time

PDH - 1

Title: Stop the Invasion: Protecting your Trees; Protecting your Environment

Description: New York State is often referred to as ground zero for exotic, invasive insects, plants and diseases. The DEC forest health program has been actively working to detect, identify and rapidly respond to the presence of these agents that damage our trees and forests. The Emerald ash borer, the hemlock woolly adelgid and the oak wilt disease *Ceratocystis fagacearum* are three of the more devastating invasive forest pests that are on a path to alter the character of our forests forever. The EAB threatens to eliminate all of our ash trees from the forest ecosystems of New York. The hemlock woolly adelgid threatens to kill all the hemlocks and forever alter the streamside character of our waterways, not to mention their high value as city and private ornamental trees. The oak wilt disease seems currently to be largely untreatable in our red oak trees and forests and it is very difficult to detect and treat once it is found. The existence of our red oak forests are seriously threatened by the presence of this disease and many private homes are surrounded by large, susceptible oaks that require very costly removals, should they become infected.

Presenter: Jerry Carlson; NYSDEC

Learning Objectives:

1. Learn how to identify these exotic tree killing agents
2. Learn what is being done locally, regionally and statewide.
3. Learn what can be done to improve detection and what to do when an infestation is found

Title: Irondequoit Bay; 30 Years of Monitoring and Improvements

Description: (more to come)

Presenter: Andy Sansone, MCDES

Title: High Performance HP Sewer Solutions

Description: Sewer pipe is often more than just a couple of lines on a set of plans, or boiler plate text in a specification manual. What do these specifications mean? What should we expect from them? ADS will be presenting on the different types of sewer pipe and differentiating these specifications that make various types of pipe unique, including AASHTO LRED structural design methodology, materials engineering properties, and joint performance/post installation inspection. The presentation will also provide some insight on how a project manual can be crafted to provide the most competitive bidding environment to reduce material costs to the owner, based on a performance based specification versus a prescription based specification.

Presenter: Ian Kuchman, ADS Pipe

Learning Objectives:

1. Identify AASHTO LRFD Structural Design Methodology
2. Describe the material engineering properties of plastics

1. Discuss the Joint performance and Post-installation Inspection

PDH - 1

Title: Keeping Families Safe on our Highways

Description: Getting home safely is the goal of every trip. We need to look at the road, the vehicle and ourselves to help keep our families safe. During this session, David will review the critical issues and give everyone insight into some simple ways to help get all of us home safely.

Presenter: David Orr, P.E. CLRP

Learning Objectives:

1. Name the critical factors in highway crashes and which are most important
2. Calculate the expected crash rate give the CMF and determine what makes a good CMF.
3. Describe differences in systemic, substantive plans

PDH – 1

Title: Governor Cuomo’s “10,000 Governments” What’s the Real Story on Shared Services & Consolidation?

Description:

New York is always a contender for the “highest taxed state” prize—and we often walk away with the title! OK, part of the problem is multiple layers of government. But how much? Does

eliminating local governments (like villages) and merging others really save lots of tax dollars? Under what conditions are the savings significant? Are there other reasons to merge local governments? CGR's been involved in more of these conversations than anyone else in the Northeast, working with the merged Princeton, New Jerseys (there were 2 until 2013); the Onondaga Consensus project; the dissolutions of many small villages and consultant to many, many communities that chose to share services but not merge. We've seen it all!

Presenter: Kent Gardner, Chief Economist, Center for Governmental Research

Learning Objectives:

1. Analyze when local governments ought to get hitched—and when they shouldn't.
 2. Select what current state programs are in place to encourage merger and shared service.
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1. Establish how to have a cordial and productive conversation about the whole issue.

CEU .1

Title: Buffalo Sewer Authority; Real Time Controls

Description:

The Buffalo Sewer Authority (BSA) has an approved Long Term Control Plan (LTCP) for Combined Sewer Overflow (CSO) mitigation. The LTCP is regulated by the United States Environmental Protection Agency (EPA) and New York State Department of Environmental Conservation (NYSDEC). A critical component of the LTCP is the use of existing large diameter interceptor sewers to provide in-line storage during wet weather to limit CSO discharges to receiving waters. In-line storage is consistent with the 12 “Best Management Practices” for combined sewer systems recommended by the NYSDEC.

Three sites were chosen for implementation of in-line storage utilizing Local Reactive Real Time Control (RTC) technology. Under the RTC concept, gates installed on the interceptors modulate in response to varying water levels to store as much flow upstream of the RTC chamber as feasible without excessively backing up the system. Taking advantage of the existing pipe capacity is a cost effective CSO control strategy. The BSA has committed to installing RTC controls at 14 locations throughout the collection system.

This presentation will focus on the first three (3) locations. RTC chambers were installed on the 9'-9" by 6'-6" egg shaped brick interceptor on Bird Avenue, and the 102" diameter RCP sewer on Lang Avenue. The Bird Avenue Sewer is was constructed of hand-laid brick in the late 1800s, and the Lang Avenue Sewer was installed in the late 1960s. Both of these two sites are in dense residential neighborhoods, requiring an aggressive public participation/notification program. Critical components of the construction phase included:

- Maintaining sewer flows during construction
- Rock excavation in close proximity to houses

- Maintaining the structural integrity of a 125-year old brick sewer
- Installing and testing telecommunications from the remote RTC sites to the BSA's WWTP on Bird Island
- Maintaining traffic flow at the street
- Keeping the public informed

The presentation will also discuss the Smith Street RTC installation. The Smith Street installation includes automated valves, in a more remote location than the Bird Avenue and Lang Avenue sites.

Presenter: John Story & Catherine Knab

Learning Objectives:

- The background and implementation of RTC as a component of the BSA's LTCP
- How RTC complies with NYSDEC CSO Best Management Practices
- Constructability concerns of large diameter sewer rehabilitation in populated residential neighborhoods

PDH - 1

Title: Integrating a Salt Management Plan into Public Works

Description: GHD's presentation will discuss the benefits to developing Salt Management Plans (SMP) and identifying salt vulnerable areas (SVA) for Public Works Departments. The focus will be on how using the latest road salt research and technology improvements in developing and implementing a SMP can lead to cost savings, safer roads, longer lasting infrastructure and improved drinking water/environmental protection. SMPs aim to manage and reduce the quantity of road salts used for winter road maintenance by reviewing/documenting existing road maintenance operations and identify means to improve snow and ice management and achieve a reduction in salt application. The focus of a SMP is in the areas of salt application, salt storage, and snow disposal. As part of a SMP it is also important to identify areas that are particularly sensitive to road salts. A new methodology using readily available spatial data to identify SVAs for urban streams can be used to prioritize implementation of best management practices. The methodology calculates the annual chloride loadings at specified points in the urban stream network and compares the results with known aquatic species exposure tolerance limits to characterize the vulnerability scores.

Presenter: Andrew Betts, GHD Limited

Learning Objectives:

1. Demonstrate how to identify Salt Vulnerable Areas in your region and how to quantify the chloride loading.

2. Identify the potential cost savings from developing and implementing a salt management plan.
3. Demonstrate how to identify Salt Vulnerable Areas in your region and how to quantify the chloride loading.

PDH - 1

Title: Rochester Museum and Science Center Green Infrastructure Initiative

Description: The presentation will summarize the planning, design and construction of the Regional Green Infrastructure Showcase @ Rochester Museum and Science Center. The Regional Green Infrastructure Showcase @ RMSC addresses a regional need for GI education for municipalities, developers and homeowners by providing a single destination location where all interests can see several different GI practices in action. The Regional Green Infrastructure Showcase project focuses on new, upcoming “green” technologies which not only contribute to improving local water quality and quality of life within the region, but are also representative of new technologies which must be included in construction and redevelopment projects. The design package, approved by the Rochester Historic Observation Board, embraces a synergy of environmental science, art and architecture to achieve the performance targets identified in the New York Consolidated Funding Application (CFA) for this project.

Presenter: Thomas Robinson, RLA, LEED AP – Barton & Loguidice

Learning Objectives:

1. Identify green infrastructure practices for urban retrofit and redevelopment projects.
2. Discuss recent improvements to pervious pavements.
3. Review consideration of maintenance in green infrastructure design.

PDH - 1