

Association of State
Dam Safety Officials,
Inc.

859-550-2788
859-550-2795 FAX
info@damsafety.org
www.damsafety.org

Florida Department of
Environmental Protection Florida
Dam Safety Program
2600 Blair Stone Road MS 3595
Tallahassee, Florida
32399-3595

Art Sengupta, P.E., P.G., PMP
State Dam Safety Officer

850-245-8491 office
850-274-3636 cell
850-245-8499 fax

Inspection and Assessment of Florida Dams

(With Field and Drone
Inspection Demo)



2017

ASDSO/FLORIDA DEP Dam Safety Seminar

October 26-27, 2017
IFAS Agriculture Research
& Education Center,
Class #219
2199 South Rock Road,
Fort Pierce, Florida, 34945

General Information

Date: October 26-27, 2017

Location: IFAS Agricultural Research and Education Center
2199 South Rock Road, Fort Pierce, FL, 34945

ACCOMMODATIONS: Hotel block rates - centrally located to venue and Field Inspection outing @ \$75 per night
• Hampton Inn, 1985 Reynolds Drive, 34945 (772) 828-4100;
hamptoninn3.hilton.com

COURSE OVERVIEW: This course provides instruction in inspection and evaluation techniques for dams. The principles, concepts and procedures taught will be readily adaptable to any organization conducting dam inspections and evaluating their compliance with current design standards. The target audience is state regulators, dam owners/operators, consulting engineers and personnel responsible for the operation and maintenance of dams. Participants learn about a variety of dam types and their appurtenances, the function of typical dam features, and common dam failure modes and the conditions that can lead to these failure modes. Actual dam failure cases will be presented. Public safety, security, and liability will also be discussed along with approaches to responding to dam incidents.

Students will learn about:

1. Historical perspective of dam construction methods for various dam types
2. Common failure modes associated with various dam types
3. Understanding of standards for maintaining dams
4. Techniques for performing a comprehensive dam inspection
5. Awareness of emerging issues related to inspection and assessment of dams

This is a **BASIC LEVEL** seminar. There are no specific education or experience prerequisites for this course, although some knowledge/experience in dam engineering and dam safety would be beneficial. Some advanced geotechnical concepts will be presented.

COURSE MATERIALS: Attendees will receive presentation and reference materials that will aid in both implementing lessons learned in the seminar. A DVD or thumb drive will be provided to participants that will include PDF files of all the presentations at the course as well as other material developed for the course. The thumb drive or DVD will also contain a variety of technical papers pertinent to the topic material. A course workbook and the native PowerPoint presentations will not be provided.

CONTINUING EDUCATION: ASDSO is registered with the Florida Board of Professional Engineers as a continuing education provider. Attendees will earn up to ten (10) professional development hours (PDHs) for attending the full seminar. You must complete the attendance sheet at the start and end of each day that you attend. Attendee certificates for PDH's will be provided on-site to those attendees with pre-paid registrations (Day 1 certificate = 6.5 hrs. Day 2 certificate = 3.5 hrs). There is no additional charge for the optional field trip on Day 2 but only those who attend will receive the second certificate for 3.5 PDH's.

About the Instructor

Main Speaker: Paul G. Schweiger, P.E., CFM is a Vice President of Gannett Fleming and Manager of the Firm's Dams and Hydraulics Section. He has over 30 years of consulting engineering experience during which time he has worked on hundreds of dam projects providing the full range of dam engineering services. Mr. Schweiger is a certified Failure Modes Analysis facilitator and a regular ASDSO Dam Owner Workshop instructor. He has published over 50 technical papers and technical manuals, given many presentations on a wide range of dam engineering topics, and is a frequent speaker at national dam safety conferences and specialty technical seminars. He has served on several dam safety committees and work groups including: the National Dam Safety Review Board, the NRCS Study Work Group to evaluate design tools for roller-compacted concrete stepped spillways and embankment armoring, and the FEMA work group for establishing guidelines for the hydraulic safety of dams. He is currently serving as an expert hydrology and hydraulics engineer on an Independent External Peer Review panel for several United States Army Corps of Engineers DSAC I dam projects and managing the FEMA study to convey lessons learned from dam failures and incidents. Paul is currently serving on the Board of Consultants for the Oroville Dam Spillway Emergency Project.

2017 ASDSO/Florida DEP Seminar Agenda

INSPECTION AND ASSESSMENT OF DAMS

October 26, 2017 – October 27, 2017

Thursday, October 26

8:00 – 8:15am	Registration
8:15 – 8:30am	Introduction and start of the seminar
8:30 – 9:30am	Session 1 Dam Fundamentals
9:30–9:45am	Break
9:45–10:45am	Session 2 Why Do Dams Fail – Part 1
10:45 – 11:00am	Break
11:00 – 12:00 pm	Session 3 Why Do Dams Fail – Part II
12:00 – 1:00pm	Lunch and Dam Failure videos
1:00 – 2:00pm	Session 4 Inspecting Embankment Dams
2:00 – 2:15 pm	Break
2:15 – 3:15 pm	Session 5 Inspecting Outlet Conduits, Drains, and Relief Wells
3:15 – 3:30 pm	Break
3:30 – 4:30pm	Session 6 Inspecting Spillways
4:30 – 5:00pm	Brief description of the field work proposed on Oct 27

Friday, October 27

9:30 – 9:45am	Assemble at Ten Mile Creek Pump Station
9:45 – 10:15am	Briefing by Jose Guardiario, SFWMD
10:15 – 12:15pm	Field Inspection with SFWMD staff /Demo of drone
12:15 – 12:30pm	Inspection, Attendance and Au Revoir

*Please Drive Home Safely

Registration Form

Registration Information:

Please fax this form with payment info to ASDSO at 859-550-2795 or scan/email to info@damsafety.org. You will receive a confirmation via Email. **Cancellation Policy:** A cancellation fee of \$15 will be applied to all refunds requested prior to October 19, 2017. After October 19, no refunds will be provided. Space is limited so please register early! Walk-in's accepted if there is space, payments to be made to ASDSO. DEP employees to be sending in their individual registration. Call ASDSO at 859-550-2788 with questions.

NAME _____

FIRST NAME FOR BADGE _____

COMPANY/AGENCY _____

ADDRESS _____

CITY/STATE/ZIP _____

PHONE _____ EMAIL _____

Florida P.E. License # _____

Seminar Fees: Select One

- | | |
|---|-----------|
| <input type="checkbox"/> Government Employee (No PDH's) | No charge |
| <input type="checkbox"/> Government Employee (With PDH's) | \$25 |
| <input type="checkbox"/> Private Individuals & Consultants (With PDH's) | \$50 |

Field Trip, please check one:

- Yes, I Plan to attend the field trip on October 27, 2017. You must make your own travel arrangements to the Ten Mile Creek Pump Station.
- No, I will be unable to attend the fieldtrip

Form of payment:

Check Enclosed Govt. P.O Enclosed

Credit Card (Circle one): M/C VISA AMEX DISCOVER

Card Number: _____

Name on Card (Please Print) _____

Expiration _____ CVV Code _____

Information Request: The Florida DEP plans to continue sponsoring dam safety through a partnership with ASDSO. Please list training topics that you would like to see addressed in future seminars:
