

2019 WATER PROFESSIONALS PROGRAM



2019 AGENDA - DRAFT

www.ces.fau.edu/ihe-delft/agenda.php

Wednesday, May 22

Students and faculty arrive from The Netherlands arrive at Palm Beach International Airport and check into Hyatt Place Hotel in Downtown West Palm Beach

Thursday, May 23

Introductory Lectures at South Florida Water Management District (SFWMD) - primarily indoors; you may want to bring jacket or sweater; Lunch at Gun Club Café

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|---------------|---|
| 10:50am | Gather in hotel lobby |
| 11:00-11:10am | Board bus |
| 11:10-11:30am | Travel to SFWMD |
| 11:30am | Students arrive at SFWMD for Security |
| 12:00-1:00pm | Lunch at Gun Club Café (on your own) |
| | Introductory Lectures in the 2A Bridge Room |
| 1:00-4:00pm | <ul style="list-style-type: none">• Overview of the Central and Southern Florida Water Management System – Matahel Ansar• Everglades Overview – Fred Sklar• Introduction to modeling at SFWMD – Akin Owosina |
| 4:10-4:30pm | Travel to West Palm Beach |

Friday, May 24

Lake Okeechobee & Kissimmee River Restoration (Riverwoods) - primarily outdoors and on pontoon boat; you may want to bring hat, sunscreen, sunglasses, raincoat, camera and binoculars; students will be able to pick up lunch on the way to Riverwoods

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| 7:40-7:50am | Gather in hotel lobby |
| 7:50-8:00am | Board bus |
| 8:00-10:30am | Travel to the FAU's Center for Environmental Studies' Riverwoods Field Lab |
| 10:45-12:00pm | Kissimmee River Research: Development and Evaluation of Large-scale Ecological Restoration:
– Steven Bousquin & Michael Cheek, SFWMD |
| 12:00-12:30pm | Lunch |
| 12:30-2:30pm | Tour of the Kissimmee River via Pontoon Boat – Loisa Kerwin, FAU's Center for Environmental Studies |
| 2:30-4:30pm | Pack up and travel to Lake Okeechobee (Port Mayaca Lock & Dam) |
| 4:30-5:00pm | Overview of Lake Okeechobee – Zach Welch, SFWMD |
| 5:00-6:15pm | Travel to West Palm Beach |

Saturday, May 25, Sunday, May 26 & Monday, May 27 (Memorial Day) – Free Days

Tuesday, May 28

USGS Lectures, FAU Davie Campus, DW-107 (Lunch provided) - primarily indoors; you may want to bring jacket or sweater

7:10-7:20am Gather in hotel lobby

7:20-7:30am Board bus

7:30-9:00am Travel from West Palm Beach to the FAU Davie Campus

- **Developing hydrologic parameters for numerical models: evaluating relative importance** – Eric Swain
- **Water, energy, and carbon cycling in the Greater Everglades** – Barclay Shoemaker
- **Monitoring of harmful algal blooms in Lake Okeechobee, the Caloosahatchee River and St Lucie River** – Amanda Booth
- **Alligators and Crocodiles as Indicators of Everglades Restoration, Linking Ecology and Hydrology** - Laura Brandt
- **Balancing competing restoration objectives: a working session on optimization and visualization for decision support tool development** – Saira Haider

USGS Lectures

9:00am-5:00pm

5:00-6:30pm Return trip from Davie to West Palm Beach

Wednesday, May 29

USGS Lectures, FAU Davie Campus, DW-107 (Lunch provided) - primarily indoors; you may want to bring jacket or sweater

7:10-7:20am Gather in hotel lobby

7:20-7:30am Board bus

7:30-9:00am Travel from West Palm Beach to the FAU Davie Campus

- **Monitoring freshwater flow to the coastal Everglades in response to restoration** – Mark Zucker
- **Everglades Restoration, sea-level rise, and coastal ecosystem change** – Dave Rudnick
- **Everglades: development, water quality litigation, restoration, hydrology, and ecology** – Donatto Surratt
- **Invasive species: reptiles and amphibians... where are we now?** – Brian J. Smith
- **Interaction with live invasive animals** – Brian J. Smith

USGS Lectures

9:00am-4:00pm

4:00-5:30pm Return trip from Davie to West Palm Beach

Thursday, May 30

Morning Field Trip to Green Cay Wetlands & Reclamation Facility; Afternoon - Loxahatchee Impoundment Landscape Assessment (LILA) - primarily outdoors; you may want to bring hat, sunscreen, sunglasses, raincoat, camera and binoculars

7:30-7:45am Gather in hotel lobby

7:45-7:55am Board bus

7:55-9:00am Travel to Green Cay Wetlands

9:00-9:45am Tour of Green Cay Wetlands

9:45-10:15am **Presentation in the Green Cay Visitor Center - Jeremy McBryan, Water Resources Director, Palm Beach County**

10:15-10:30am Board bus & travel to Water Reclamation Facility

10:30-11:30am **Tour of PBC Southern Region Water Reclamation Facility**

11:30 -11:45am Travel to nearby lunch location

11:45am-1:00pm Lunch (on your own)

1:00-1:15pm Travel to Arthur R. Marshall Loxahatchee National Wildlife Refuge

1:15-1:30pm Walk along swamp boardwalk and bathrooms

1:30-4:00pm **Loxahatchee Impoundment Landscape Assessment (LILA) project visit**
A Sculpted River of Grass: Harnessing the Power of a Model – Eric Cline & Fred Sklar

4:15-5:15pm Travel to West Palm Beach

Friday May 31

Morning Field Trip to STA 1E and S-319 Pump Station & Palm Beach Aggregates, Afternoon student symposium at SFWMD - primarily outdoors; wear close-toed shoes; you may want to bring hat, sunscreen, sunglasses, raincoat, camera and binoculars; Lunch at Gun Club Café

7:50-8:00am	Gather in hotel lobby
8:00-8:10am	Board bus
8:10-9:00am	Travel to STA 1E & S-319 Pump Station
9:00-10:45am	Tour of STA 1E & S-319 Pump Station – Luis Bianchi, Jill King & Nathan Ralph
10:45-11:00am	Travel to Palm Beach Aggregates
11:00am-12:30pm	Overview & Tour: Palm Beach Aggregates, C-51 & L8 Reservoirs – Ernie Cox
12:30-1:00pm	Travel to the SFWMD
1:00-2:00pm	Lunch at Gun Club Café (on your own)
2:00-4:00pm	IHE Delft Student Symposium
4:00-5:00pm	Clean Drinking Water Team Presentation – Rick Miessau (EMD Training Room B-2)
5:10-5:30pm	Travel to West Palm Beach

Saturday, June 1

Everglades National Park (ENP) & Sawgrass Mills Mall - primarily outdoors; wear close-toed shoes; you may want to bring hat, sunscreen, sunglasses, raincoat, camera and binoculars; Lunch: bring your own

6:50-7:00am	Gather in hotel lobby
7:00-7:10am	Board bus
7:10-9:30am	Travel to the Tamiami Trail
9:30-10:15am	Overview of Tamiami Trail Modifications
10:15-11:00am	Travel to Shark Valley & Explore Visitor Center
11:00am-1:00pm	Guided Tram Tour with ENP Interpretive Ranger
1:00-1:15pm	Travel to Miccosukee Indian Village
1:15-2:15pm	Miccosukee Indian Village – Airboat Ride
2:15-3:30pm	Travel to Sawgrass Mills Mall
3:30-6:00pm	Shopping at Sawgrass Mills Mall
6:00-7:15pm	Travel to West Palm Beach

Sunday, June 2 – Free day

Monday, June 3

Lake Okeechobee Herbert Hoover Dike Construction, Presentations by Ferrate Solutions, UF/IFAS and Florida Crystals - indoor & outdoor meetings and field trips; wear long pants and close-toed shoes-no tank tops; you may want to bring hat, sunscreen, sunglasses, raincoat & camera; Lunch from Winn Dixie (on your own)

7:50-8:00am	Gather in hotel lobby
8:00-8:10am	Board bus
8:10-9:15am	Travel to Lake Okeechobee Herbert Hoover Dike
9:15-10:45am	Presentation by Ingrid Bon & Anibal Mercado, US Army Corps of Engineers. Topic: Cut-off wall construction on HDD
10:45-11:00am	Travel to Winn Dixie to pick up lunch
11:00-11:30am	Shopping at Winn Dixie
11:30am-11:45am	Travel to Belle Glade IFAS Extension office
11:45am-12:30pm	Lunch in Conference Room
12:30-1:15pm	Presentation by Thomas D. Waite, Ferrate Solutions – Topic: Nutrient Removal

1:15-3:00pm	Presentations by Andres Rodriguez & Tim Lang, UF/IFAS – Topic: Best Management Practices
3:00-3:30pm	Travel to Section 20 Pump Station
3:30-4:30pm	Presentation in Field by Luis Girado, Florida Crystals – Topic: Best Management Practices
4:30-5:30pm	Travel to West Palm Beach

Tuesday, June 4

Morning Lectures at SFWMD; Afternoon hands-on tour & job shadowing/mentoring - primarily indoors; you may want to bring jacket or sweater; Lunch at Gun Club Café (on your own)

7:55-8:05am	Gather in hotel lobby
8:05-8:15am	Board bus
8:15-8:45am	Travel to SFWMD

Morning Lectures in the 3A Bridge Room

9:00-12:00pm	<ul style="list-style-type: none"> • Managing Complexity: Applying the Right Model for the Task - Jason Godin & Jeff Iudicello • CFD Modeling of structures - Matahel Ansar • Inverse Modeling - Alaa Ali
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12:00-1:00pm	Lunch at Gun Club Café (on your own)
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Afternoon Lectures in the EOC Room (backup 2A Bridge) and Control Room/CIL Conference Room

1:00-4:30pm	<ul style="list-style-type: none"> • Parameter Estimation using PEST - Dave Welter • GIS/Remote Sensing at SFWMD - Rick Householder • Tours of Control Room, Job Shadowing, Research Exchange - Paul Linton/Matahel Ansar
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4:40-5:00pm	Travel to West Palm Beach
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Wednesday, June 5

Morning Lectures, Afternoon Water Management Exercise & Closing Ceremonies at SFMWD- primarily indoors; you may want to bring jacket or sweater; Lunch at Gun Club Café (on your own)

7:55-8:05am	Gather in hotel lobby
8:05-8:15am	Board bus
8:15-8:45am	Travel to SFWMD

Morning Lectures in the Richard Rogers Conference Room

9:00-11:30am	<ul style="list-style-type: none"> • Operational Planning - Jenifer Barnes & Cal Neidrauer • Lake Okeechobee Watershed Modeling- Joyce Zhang • Storm Surge Modeling for Lake Okeechobee - Kang-Ren Jin
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11:30-11:45am	Group Photo (outside of B-1) - Niki Mabie & all Instructors
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12:00-1:00pm	Lunch at Gun Club Café (on your own)
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Afternoon Lectures in the EOC (backup CIL Conf Room)

1:15-2:45pm	<ul style="list-style-type: none"> • Are you smarter than a water manager? – Cal Neidrauer
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3:00-4:00pm	Closing Ceremony w/Certificates in the EMD Training Room B2 – All Instructors
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4:30-5:00pm	Travel to West Palm Beach
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Thursday, June 6

Debriefing and Depart for trip home