# COASTAL INLETS RESEARCH PROGRAM
## *SMS Steering Module Workshop*

Local Coordinator: Mary Cialone
Assistant Coordinators: Janie Daughtry and Mitch Brown

## MONDAY 7/29/02

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|---|---|
| 8:00-8:30 | Introductions<br>Welcome to EDRC (Dr. Sandra Knight, Navigation Systems Technical Director)<br>Course Schedule/Orientation (Cialone) |
| 8:30-9:00 | Overview of CIRP and CIRP Modeling Strategy (Kraus) |
| 9:00-10:00 | Introduction to the SMS and the Models (Zundel)<br>Sample applications of each model<br>General SMS interface description (with demo) |
| | Break |
| 10:15-11:15 | **Lesson 1** – Simple Sample Problem – Step by step instructions (Zundel/Jones)<br>Running a model<br>Viewing results (visualization tools) |
| 11:15-12:00 | Site Mapping – SMS Scatter and Map Modules (Zundel) |
| | Lunch |
| 1:00-2:00 | **Lesson 2** – Site/Base Mapping – Shinnecock Inlet (Zundel/Jones)<br>Background image<br>Scattered data management (Depth/Bathymetry)<br>Coastline data |
| 2:00-2:30 | Model Background – ADCIRC (Luettich/Westerink) |
| 2:30-3:00 | Model Background – STWAVE (J. Smith) |
| | Break |
| 3:15-3:40 | Model Background – M2D (Militello) |
| 3:40-4:00 | Model Background – CGWAVE (Demirbilek) |
| 4:00-4:45 | Conceptual Model – SMS Map Module (Zundel) |
| 4:45-5:30 | **Lesson 3** – Conceptual Model - Shinnecock Inlet (Militello/Zundel) |

## TUESDAY 7/30/02

8:00-8:45 ADCIRC Theory – Model Parameters (Luettich/Westerink)
8:45-9:30 Mesh Generation and ADCIRC Model Parameter Specification (Zundel)
9:30-10:30 **Lesson 4** – SMS Map and Mesh Module (Zundel/Jones)
Mesh Generation - Shinnecock Inlet
Specifying ADCIRC Parameters
Methodology for Running ADCIRC
Visualization of Results

Break

10:45-11:30 Mesh Visualization (Zundel)
11:30-12:00 **Lesson 5** – SMS Mesh Module Visualization (Zundel/Jones)

Lunch

1:00-1:45 STWAVE Theory – Model Parameters (J. Smith)
1:45-2:30 Grid Generation and STWAVE Model Parameter Specification (Zundel)

Break

2:45-4:00 **Lesson 6** – SMS Map and Grid Module (Zundel/Jones)
Grid Generation - Shinnecock Inlet
Specifying STWAVE Parameters
Methodology for Running STWAVE
Visualization of Results
4:00-4:30 Summary and Discussion

## WEDNESDAY 7/31/02

8:00-10:00 ***Physical Model Tour***
Los Angeles/Long Beach (Carver)
Grays Harbor (Ward)
Flow Table (Hughes)
Chicago Harbor (Bottin)
Longshore Sediment Transport Facility (E. Smith)

Break

10:15-10:45 ADCIRC Theory – Optional Input (Luettich/Westerink)
10:45-11:15 STWAVE Theory – Optional Input (J. Smith)
11:15-12:00 Introduction to Steering Module (ADCIRC-STWAVE) (Zundel)

Lunch

1:00-3:00 **Lesson 7** – SMS Steering Module Tutorial (ADCIRC-STWAVE) (Zundel/Jones)

Break

3:15-4:00 M2D Theory – Model Parameters (Militello)

## THURSDAY 8/01/02

8:00-9:15 **Lesson 8** – SMS Map and Grid Module (Zundel/Jones)
- Grid generation
- Specifying M2D parameters
- Methodology for Running M2D
- Visualization of Results

9:15-10:00 Linking M2D with ADCIRC and STWAVE (Militello/Zundel)

Break

10:15-11:45 **Lesson 9** – SMS Steering Module Tutorial (M2D-STWAVE) (Militello/Zundel)

Lunch

1:00-2:30 SHOALS Toolbox lecture (Wozencraft)

Break

2:45-5:00 **Hands-On Session**---SHOALS Toolbox (Wozencraft)

## FRIDAY 8/02/02

8:00-9:30 CGWAVE Theory – Model Parameters (Demirbilek)

9:30-10:00 CGWAVE Interface (Zundel)

Break

10:15-11:15 **Lesson 10** – SMS Map and Mesh Module (Zundel/Jones)
- Grid generation
- Specifying M2D parameters
- Methodology for Running CGWAVE
- Visualization of Results

11:15-11:45 **Hands-On Session**---extra SMS Steering Module Tutorial session

11:45-12:00 Course Evaluation