

Coastal Inlets Research Program (CIRP) Workshop

Coastal Modeling System Short Course

August 19-21, 2011

Sheraton San Diego Hotel and Marina

1380 Harbor Island Drive, San Diego, California, 92101

Most of the CMS portion of this course is presentation only. You may follow along on the laptop computers provided. As this is a beginner course, we will cover many of the basics and some advanced features. If extra time remains at the end of each day, one of the instructors will attempt to answer questions on a case-by-case basis.

Friday, 19 August

12:30 – 1:00	Registration	Executive Conference Center
1:00 – 1:15	Welcome! Introductions, Overview and Goals of Workshop Mitchell Brown, Coastal & Hydraulics Laboratory (CHL)	
1:15 – 2:15	Overview of Interface, Models, and User Resources <ul style="list-style-type: none"> • <i>SMS v11.0</i> • <i>CMS-Flow and CMS-Wave</i> • <i>CIRP Website and Wiki</i> 	
2:15 – 3:45	Working with Bathymetry <ul style="list-style-type: none"> • <i>Horizontal Projection</i> • <i>Vertical Datum (Unit Conversion, Datum conversion)</i> • <i>Merging Multiple Surveys</i> 	
3:00 – 3:15	Break **	
3:45 – 5:00	Using CMS-Flow and CMS-Wave (Humboldt Bay, CA) <ul style="list-style-type: none"> • <i>Flow Grid Generation (Variable Spacing)</i> • <i>Flow Boundary Condition Forcing</i> • <i>Flow Model Parameters</i> • <i>Wave Grid Generation</i> • <i>Wave Spectra</i> <p style="color: red; text-align: center;"><u>Continue on Sunday, 21 August 2011</u></p>	
5:00	Adjourn for Day	

- ** Morning before start – coffee/water and muffins provided
 Morning breaks – coffee/water provided
 Afternoon breaks – sodas/water provided

Saturday, 20 August

8:30 – 9:00	Arrive Executive Conference Center
9:00 – 9:15	Welcome! Introductions, Overview and Goals of Workshop Ashley Frey, Coastal & Hydraulics Laboratory (CHL)
9:15 – 10:15	Introduction to GenCade
10:15 – 10:30	Break
10:30 – 11:30	Simple GenCade example - Follow along with instructors
11:30 – Noon	Begin hands-on exercise
Noon – 1:00	Lunch (box lunch provided)
1:00 – 4:00 Break @ 2:30	Continue hands-on exercise (including alternative configurations)
4:00	Adjourn for Day

Sunday, 21 August

8:30 – 9:00 am	Arrive Executive Conference Center
9:00 – Noon Break @ 10:15	Using CMS – Humboldt Bay, CA (continued from Friday) <ul style="list-style-type: none"> • <i>Flow Grid Generation (Telescoping)</i> • <i>Flow/Wave combined simulations</i>
Noon – 1:00 pm	Lunch (box lunch provided)
1:00 – 2:00	Post-Production <ul style="list-style-type: none"> • <i>Quasi 3D Visualization</i> • <i>Animations</i>
2:00 – 4:00 Break @ 2:45	Application – Dana Point, CA <ul style="list-style-type: none"> • <i>Model Setup</i> • <i>Permeable Structure</i> • <i>Hydrodynamic and sediment transport simulations</i> • <i>Model calibration</i> • <i>Results</i>
	Answer any questions if time permits at the end of day
4:00	Adjourn for Day

<http://cirp.wes.army.mil/>

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