EFDC_Explorer8.4

Advanced Modeling Course Agenda

Hydrothermal Modeling and Water Quality Modeling

11~13, JULY, 2018 – DaeJeon, Korea

Note that this training course is Level 2 and assumes a basic understanding of the EFDCPlus / EFDC_Explorer Modeling System. Those people who wish to participate that have never used EFDC_Explorer are encouraged to work through the online video tutorials and example models available on our website. For more information please contact us at: ee_training@ds-intl.biz

Day 1 – Session 1	Welcome, Introduction (Prof.D.Seo & Dr. G. Jung & Paul Craig)
Day 1 – Session 2	Overview of EFDC and EEMS 8.4 (Paul)
Lunch Break	
Day 1 – Session 3	Hands on examples (Paul)
Day 2 – Session 1 &2	Sediment Transport Modeling (Paul)
Lunch Break	
Day 2 – Session 3	Water Quality Modeling (Algal Bloom) (Prof. Seo)
Day 2 – Session 4	Hands on
Day 3 – Session 1	Hands on example of Sediment Transport (Paul)
Lunch Break	
Day 3 – Session 3	Case of EE Modeling (Prof. Kim)
Day 3 – Session 4	Q & A

◎　강의 일정은 강사의 사정에 의해 변동 될수도 있음을 알려드립니다.

Level 2 EEMS and Water Quality Modeling Course Objectives

Objective 1: Overview of EFDC/EFDC Coastal Modeling Capabilities

- Coastal Modeling Concepts in EFDC
- Setting Harmonic Boundaries in EE and EFDC
- Linking to External Wave Models

Objective 2: Overview of Sigma Zed Model Capabilities

- EFDC Sigma Zed Theory
- Differences between SGZ and Sigma Stretch
- Zonation and Layering Options

Objective 3: Overview of EFDC_Explorer Water Quality Capabilities

- EFDC Water Quality Theory
- EFDC Data Structure, Initial Conditions, Boundary Conditions
- EE User Interface for Water Quality Modeling
- Building and assigning WQ initial and boundary conditions

Objective 4: Overview of EFDC_Explorer Habitat Analysis Capabilities

- EFDC Habita Analysis Theory

Objective 4: Hands on Modeling Practice

- Hands on with EFDC_Explorer/ EFDC Modeling System
- Creating models
- Providing solutions to user problems

Objective 5: Overview and Hands On with Sediment Transport modeling

- EFDC Sediment Transport.