CSDMS 2014: Uncertainty & Sensitivity in Surface Dynamics Modeling

May 20-22, 2014

Time	Location	What	Presenter/Facilitator	Topic
8:00	*Bus 1 leaves hotel*			
8:15	*Bus 2 leaves hotel*			
8:30	*Registration in lobby*			
9:00	N. Bay	Welcome	Patricia Wiberg (UVA)	
9:05	N. Bay	CSDMS Updates	James Syvitski (CSDMS)	
9:35	N. Bay	Guest Talk	Jef Caers (Stanford)	CSDMS: Special Issue in Computers & Geosciences Journal
9:45	N. Bay	Keynote 1	Peter Koons (UMaine)	Unifying Tectonics & Surface Processes in Geodynamics
10:15	*Break*			
10:30	N. Bay	Keynote 2	David Pyles (CSM)	Testing the efficacy & uncertainty of outcrop-and-model-based studies through collaboration: A field geologist's perspective
11:00	N. Bay	Breakout 1.1	Terrestrial, Hydro, CZO & Geodynamics Groups	Discussion on group activities & identifying a model to wrap w/ a BMI
	S. Bay	Breakout 1.2	Coastal, Marine, Carbonate, & Chesapeake Groups	Discussion on group activities & identifying a model to wrap w/ a BMI
	2126	Breakout 1.3	Anthropocene, EKT, & Cyber Groups	Discussion on group activities & identifying a model to wrap w/ a BMI
12:00	*Lunch*			
1:00	N. Bay	Clinic 1.1	Ali Khosronejad (UMN)	The SAFL Virtual StreamLab (VSL3D): High Resolution Simulation of Turbulent Flow, Sediment Transport, and Morphodynamics in Waterways
	S. Bay	Clinic 1.2	Mark Piper, Irina Overeem, & Eric Hutton (CSDMS)	WMT-The CSDMS Web Modeling Tool
	2126	Clinic 1.3	Chris Jenkins (INSTAAR)	Carbonate Models clinic-carbo* suite
3:00	*Break*			
3:15	N. Bay	Keynote 3	Jim McElwaine (Durham U)	The Dynamics of Granular Flows
3:45	N. Bay	Keynote 4	Alexey Voinov (UTwente)	Exploring climate mitigation and low-carbon transition: new challenges for model integration
4:15	N. Bay	Student Talk 1	Ajay Limaye (CalTech)	A vector-based method for bank-material tracking in coupled models of meandering and landscape evolution
4:30	Lobby	Poster Session 1		
6:30	*Buses Depart to hotel*			
Wednesday, May 21				
8:30	*Buses Depart from hotel*			
9:00	N. Bay	Keynote 5	Andrew Nicholas (Exeter)	Modeling the Evolution of Large Floodplains
9:30	N. Bay	Student Talk 2	Rebecca Caldwell (IU)	A numerical modeling study of the effects of sediment properties on deltaic processes and morphology
9:45	N. Bay	Keynote 6	Rudy Slingerland (Penn State)	The FESD Delta Dynamics Modeling Collaboratory: A Progress Report
10:15	*Lobby*	*Break*		
10:30	N. Bay	Clinic 2.1	Monte Lunacek (CU)	Interactive Data Analysis with Python
	S. Bay	Clinic 2.2	Scott Peckham (CSDMS)	Introduction to the Basic Model Interface & Standard Names
	2126	Clinic 2.3	Joshua Watts (ASU)	Agent-Based Modeling Research: Topics, Tools, and Methods
	2503	Clinic 2.4	Eunseo Choi (CERI, UM)	SNAC: A 3D parallel explicit finite element code for long-term lithospheric deformation modeling
12:30	*Lunch*			
1:30	N. Bay	Breakout 2.1	Terrestrial, Hydro, CZO & Geodynamics Groups	Discussion: Model Intercomparison Experiments Design
	S. Bay	Breakout 2.2	Coastal, Marine, Carbonate, & Chesapeake Groups	Discussion: Model Intercomparison Experiments Design
	2126	Breakout 2.3	Anthropocene, EKT, & Cyber	Discussion: Model Intercomparison Experiments Design
3:00	*Break*			
3:15	N. Bay	Keynote 7	Eric Larour (JPL)	Towards better quantifications of the uncertainty in polar ice-sheet projections using the open source framework ISSM
3:45	N. Bay	Keynote 8	Mick van der Wegen (UNESCO-IHE & Deltares)	Estuarine morphodynamics: better be certain about uncertainty
4:15	Lobby	Poster Session #2		
6:15	*Buses Depart to hotel*			
7:00	*Banquet at Marriott*	*Participants will walk from hotel to banquet*		
Thursday, May 21				
8:30	*Buses Depart from hotel*			
9:00	N. Bay	Keynote 9	Attila Lazar (Soton)	Coupling terrestrial and marine biophysical processes with livelihood dynamics for analysis of poverty alleviation in Bangladesh
9:30	N. Bay	Keynote 10	Tian-Jian (Tom) Hsu (UDEL)	Understanding wave-driven fine sediment transport through 3D turbulence resolving simulations-implications to offshore delivery of fine sediment
10:00	N. Bay	Student Talk 3	Mariela Perignon (CU)	Predicting the influence of floodplain vegetation on the geomorphic effects of large floods
10:15	*Break*			
10:30	N. Bay	Breakout 3.1	Mary Hill (USGS)	Discussion on Uncertainty
	S. Bay	Breakout 3.2	Venkat Lakshmi (USC)	Discussion on Uncertainty
	2126	Breakout 3.3	Xuan Yu (Penn State)	Discussion on Uncertainty
	2503	Breakout 3.4	Bert Jagers (Deltares)	Discussion on Uncertainty
12:00	*Lunch*			
1:00	N. Bay	Keynote 11	Elowyn Yager (UI)	Predictions of bedload transport in vegetated channels: uncertainties and steps forward
1:30	N. Bay	Clinic 3.1	Courtney Harris (VIMS)	ROMS-Regional Ocean Modeling System
	S. Bay	Clinic 3.2	Gregory Tucker & Daniel Hobley (CIRES-CU)	Creative Computing with Landlab:A flexible Python package for rapidly building and exploring 2D surface-dynamics models
	2126	Clinic 3.3	Laura Swiler & Adam Stephens (SNL)	Dakota:A Toolkit for Sensitivity Analysis, Uncertainty Quantification, and Calibration
3:00	*Break*			
3:15	Clinics Continued			
4:40	N. Bay	Report From Working Groups	Discussion group reporters	
5:30	N. Bay	Final Remarks & Departure		
5:30	*Buses Depart to hotel*			