38th Annual Binghamton Geomorphology Symposium
Complexity in Geomorphology
Tentative Schedule
(as of Sept. 21, 2007)

Optional Field Trip

Thursday, Oct. 4

1:00 p.m.	-	2:00 p.m.	Shuttle buses leave from Brookwood Inn, Nicholas School (LSRC) and RDU airport and travel to Duke Marine Lab, Beaufort, NC
6:00 p.m.	-	6:30 p.m.	Arrive at Marine Lab and check into dorm rooms or hotel room
6:30 p.m.	-	8:00 p.m.	Reception and Dinner at Marine Lab
8:00 p.m.	-	9:00 p.m.	Presentation

Friday, Oct. 5

7:30 a.m.	-	8:30 a.m.	Breakfast in Marine Lab Dining Hall – Dominick
8:30 a.m.	-	2:00 p.m.	Excursion to an undeveloped barrier island and Cape Lookout Afternoon with lunch on the boat or on Cape Lookout
2:00 p.m.	-	6:00 p.m.	Leave Duke Marine Lab. Travel to Durham. Arrive at Brookwood Inn or Nicholas School (LSRC)
			End of Optional Field Trip

Friday, Oct. 5

6:00 p.m.	-	9:00 p.m.	**Symposium Begins - Registration and Icebreaker** Hall of Science, Levine Science Research Center (LSRC), West Campus, Duke University

Saturday, Oct. 6

Symposium — **Levine Science Research Center (LSRC), West Campus, Duke University - Hall of Science & Love Auditorium**

7:30 a.m.	-	8:30 a.m.	**Registration and Continental Breakfast**
8:30 a.m.	-	10:30 a.m.	**Welcome & Introductions** **Bill Chameides** Dean, Nicholas School of the Environment and Earth Sciences **Mike Ellis** NSF Program Officer, Geomorphology and Land-Use Dynamics **Fractal behavior in space and time in a simplified model of fluvial landform evolution** Jon Pelletier, Assistant Professor of Geosciences - University of Arizona

Dynamics of coupled human-landscape systems
Presented by Dylan McNamara

Article by:
- Brad Werner, Professor of Geophysics - University of California at San Diego
- Dylan McNamara, Research Associate - Nicholas School of the Environment and Earth Sciences, Duke University

Tidal marsh morphodynamics and ecomorphodynamics
Keynote Speaker – Stephano Lanzoni

Article "Spontaneous tidal network formation within a constructed salt marsh: Observations and morphodynamic modeling" by Andrea D'Alpaos, Stefano Lanzoni, Marco Marani, Andrea Bonometto, Giovanni Cecconi, Andrea Rinaldo
- Andrea D'Alpaos, Ph.D. Student - University of Padova
- Stefano Lanzoni, University of Padova
- Marco Marani, University of Padova
- Andrea Bonometto, University of Padova
- Giovanni Cecconi, Consorzio Venezia Nuova
- Andrea Rinaldo, Professor of Civil & Environmental Engineering - University of Padova

10:30 a.m. - 11:15 a.m. **Morning Break & Posters**

11:15 a.m. - 12:30 p.m. **Scaling in river corridor widths depicts organization in valley morphology**
Presented by Efi Foufoula-Georgiou

Article by Chandana Gangodagamage, Elizabeth Barnes, Efi Foufoula-Georgiou
- Chandana Gangodagamage, Ph.D. Student - University of Minnesota
- Elizabeth Barnes, Graduate Student – University of Washington
- Efi Foufoula-Georgiou, Professor of Engineering - University of Minnesota

Complexity, self-organisation and variation in behaviour in meandering rivers
Janet Hooke, Professor of Geography - University of Liverpool

Discussion

12:30 p.m. - 1:45 p.m. **Lunch**

1:45 p.m. - 3:30 p.m. **Complex systems in aeolian geomorphology**
Andreas Baas, Senior Lecturer in Physical Geography - King's College London

Quantifying fluvial non linearity and finding self organized criticality? Insights from simulations of river basin evolution
Presented by Tom Coulthard

Article by:
- Tom Coulthard, Professor of Physical Geography - University of Hull
- Marco Van De Wiel, Assistant Professor of Geography - University of Western Ontario

Patterns in the sand: From forcing templates to self-organization
Presented by Giovanni Coco

Article by:
- Giovanni Coco, Research Scientist - National Institute of Water & Atmospheric Research, New Zealand
- Brad Murray, Associate Professor of Geomorphology and Coastal Processes - Nicholas School of the Environment and Earth Sciences, Duke University

Discussion

3:30 p.m. - 4:15 p.m. **Afternoon Break & Posters**

4:15 p.m.	-	5:45 p.m.	**Autogenic dynamics and fossilized complexity in depositional systems** **Keynote Speaker - Chris Paola** Article "Complexity in a cellular model of river avulsion" by: • Douglas Jerolmack, Assistant Professor of Earth and Environmental Science - University of Pennsylvania • Chris Paola, Professor of Geology and Geophysics - University of Minnesota
5:45 p.m.	-	7:00 p.m.	**Happy Hour & Posters**
7:00 p.m.	-	10:00 p.m.	**Symposium Banquet – LSRC Dining Hall** **Banquet Speaker – Peter Haff** **The future of geomorphology as seen from the stone age** Article "The landscape Reynolds number and other dimensionless measures of Earth surface processes" by: Peter Haff, Professor of Geology and Civil and Environmental Engineering - Nicholas School of the Environment and Earth Sciences, Duke University

Sunday, Oct. 7

Symposium — **Levine Science Research Center (LSRC), West Campus**
Hall of Science & Love Auditorium

8 a.m.	-	9:00 a.m.	**Continental Breakfast & Posters**
9:00 a.m.	-	10:30 a.m.	**Perfection and complexity in the lower Brazos River** Jonathan Phillips, Professor of Geography - University of Kentucky **Simulating the development of Martian highland landscapes through the interaction of impact cratering, fluvial erosion, and variable hydrologic forcing** Alan Howard, Professor of Environmental Sciences - University of Virginia Discussion
10:30 a.m.	-	11 a.m.	**Break & Posters**
11:00 a.m.	-	12:30 p.m.	**Geomorphological limits to self-organization of alpine forest-tundra econtone vegetation** Presented by Yu Zeng Article by Yu Zeng, George P. Malanson, David R. Butler • Yu Zeng, Ph.D. Student - University of Iowa • George Malanson, Professor of Geography - University of Iowa • David Butler, Professor of Geography – Texas State University **Self-organized complexity in geomorphology: Observations and models** Donald Turcotte, Professor of Geology - University of California at Davis Discussion
12:30 p.m.	-	12:45 p.m.	**Closing Comments**