



MARGINS Theoretical Institute 2006

**TELECONNECTIONS BETWEEN SOURCE & SINK IN
SEDIMENT DISPERSAL SYSTEMS**

Program

Version 9-11-06

The purpose of this TEI is to develop an integrated conceptual understanding of sediment dispersal systems from source-to-sink by fostering interactions among experimentalists, theoreticians (modelers), and field observationalists in tectonics, geomorphology, sedimentary geology, and oceanography.

Sunday 17 September Marconi Center, Marin County, CA	INTRODUCTION
<i>Afternoon</i>	Registration (desk in lobby area)
<i>1800</i>	Dinner
<i>1930-2030 Buck Hall</i>	Icebreaker
<i>2030-2130 Buck Hall</i>	<p>Opening Remarks: Welcome; Introduction of key people; Statement of objectives (critical evaluation of S2S science plan; identification of key questions; new focus areas)--- Rudy Slingerland</p> <p>Keynote Talk: “The Promise of MARGINS Source to Sink” ---James Syvitski</p> <hr/>
Monday 18 September Marconi Center	THE SOURCE Moderator: Bill Dietrich
<i>0700-0830</i>	Breakfast
<i>0830-0930 Buck Hall</i>	Talk: “Sediment Fluxes off the Hillslope” (current understanding of processes and rates, predictability of sediment production, and transport to channels)--- Bill Dietrich
<i>0930-0945 Buck Hall</i>	<p>On-going Studies in the Source (10 minute talks with 5 minutes of discussion)</p> <ol style="list-style-type: none"> 1. K. Berryman 2. E. Leithold 3. B. Mackey 4. SJ. Kao
<i>0945-1015</i>	Break
<i>1015-1200 Buck Hall</i>	Panel Discussion with Audience Participation: Sediment Fluxes off the Hillslope ---Panelists: W. Dietrich, P. Whiting, T. Lisle, J. Syvitski (chair)

Identify key field or experimental observations that must be collected, theory that must be developed, and key integration of data and theory required to address significant unsolved problems in the S2S system; consider possible questions and sites for future S2S research, including ones that either have not been considered previously or that had been discarded for reasons no longer applicable

1200-1330

Lunch

1330-1430
Buck Hall

Talk: "Sediment Routing Through the Fluvial System: Pulses, Storage, Lags, and Legacies"---**John Milliman**

1430-1445
Buck Hall

On-going Studies in Sediment Routing (10 minute talks with 5 minutes of discussion)

1. **T. Dunne**
2. **S. Fagherazzi**
3. **B. Gomez**
4. **M. Blum**

Break

1445-1515

1515-1700
Buck Hall

Panel Discussion with Audience Participation: Sediment Routing Through the Fluvial System---

Panelists: **B. Gomez, J. Milliman, S. Goodbred, M. Blum (chair)**

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1800-1930

Dinner

1930
Pine and Cypress Lodges

Posters and Beverages

Tuesday 19 September	SOURCE FIELD TRIP EEL RIVER CATCHMENT Trip Leaders: Harvey Kelsey, Bill Dietrich, Tom Lisle, Kevin Furlong
0600-0700	Breakfast
0700	DEPARTURE (Please be packed; we will not return to the Marconi Center)
1700	Estimated Time of Arrival at Red Lion Inn, Eureka, CA
1900	Dinner
2000 <i>Redwood Ballroom</i>	After Dinner Theatre: “ 1964 Eel River Flood“ with comments by Bob Meade
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Wednesday 20 September Red Lion Inn, Eureka	THE SINK Moderator: Lincoln Pratson
0700-0830	Breakfast
0830-0930 <i>Redwood Ballroom</i>	Talk: “Fate of river-derived sediments: putting active margins into perspective”--- Chuck Nittrouer
0930-0945	On-going Studies in “Sedimentation on Shelves Experiencing Sea Level Change” (10 minute talks with 5 minutes of discussion) <ul style="list-style-type: none"> 1. C. Harris 2. R. Wheatcroft 3. N. Driscoll 4. P. Liu
0945-1015	Break
1015-1200 <i>Redwood Ballroom</i>	Panel Discussion with Audience Participation: “Processes of Sedimentation on Shelves Subject to Relative Sea Level Change”---Panelists: S. Kuehl (chair), P. Wiberg, A. Ogston, and C. Nittrouer

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1200-1330	Lunch
1330-1430 <i>Redwood Ballroom</i>	Talk: “Sediment Delivery to Offshore Slopes and Basins” --- Andre Droxler & Sam Bentley
1430-1530 <i>Redwood Ballroom</i>	On-going Studies in Offshore Slopes and Basins (10 minute talks with 5 minutes of discussion) <ol style="list-style-type: none"> 1. S. Kuehl 2. N. Mitchell 3. C. Alexander 4. J. Yun
1545-1600	Break
1600-1700 <i>Redwood Ballroom</i>	Panel Discussion with Audience Participation: “Sediment Delivery to Offshore Slopes and Basins” --- Panelists: A. Droxler (chair), E. Leithold, S. Bentley, J. Jaeger Identify key field or experimental observations that must be collected, theory that must be developed, and key integration of data and theory required to address significant unsolved problems in the S2S system; consider possible questions and sites for future S2S research, including ones that either have not been considered previously or that had been discarded for reasons no longer applicable
1700-1930 <i>Pine and Sequoia Rooms</i>	Posters and Beverages
1930	Dinner
Thursday 21 September	SINK FIELD TRIP / THE BIGGER PICTURE Moderator: John Milliman
0700-0830	Breakfast
0830-1200	Fieldtrip to Sink Sediments (Coastal Exposures)---Field Trip Leader: L. Leithold & H. Kelsey

1200-1330	Lunch
1330-1430 <i>Redwood Ballroom</i>	Talk: “Teleconnections in the S2S System” --- John Swenson
1430-1445	Break
1445-1545 <i>Redwood Ballroom</i>	Panel Discussion with Audience Participation: “Teleconnections”---Panelists: T. Dunne, R. Slingerland, B. Meade, J. Swenson <ol style="list-style-type: none"> 1. Identify key field or experimental observations that must be collected, theory that must be developed, and key integration of data and theory required to address significant unsolved problems in the S2S system; consider possible questions and sites for future S2S research, including ones that either have not been considered previously or that had been discarded for reasons no longer applicable
1545-1600	Coffee
1600-1700	Break-out Groups: Suggestions for the S2S Science Plan (Group Leaders are Panelist Chairs)
1700-1930 <i>Pine and Sequoia Rooms</i>	Posters and Beverages
1930	Dinner
Friday 22 September	OPTIONAL WORKSHOP ON THE S2S SCIENCE PLAN RED LION INN, EUREKA, CA
0700-0830	Breakfast
0830-1200	Departure or Workshop