

November 3-6, 2010 @Inn and Spa at Loretto, NM

## GeoPRISMS Rift Initiation and Evolution Scientific Planning Workshop

Meeting Organizer Role / Speaker

### Wednesday November 3<sup>rd</sup>:

4-7:00 pm - Loretto Hotel Lobby

Registration in the Loretto Hotel lobby with cash bar. Collect your meeting folder and name tag here. Post day one posters.

7:00 pm Meeting organizers gather for dinner out.

### Thursday November 4<sup>th</sup>:

7:30 am - Zuni Ballroom

Coffee and Muffins (grad student orientation)

8:00 am Meeting welcome and logistics (Mike Oskin/organizing committee)

8:10 am **Summary of RIE Science Plan** (Juli Morgan)

8:20 am NSF & Other VIP comments

8:30 am **Theme Session 1 - Initiation** (Ramon Arrowsmith) – how and why do continental rifts initiate?

Science Plan Review (10 min max)

Talk 1 (25 min): Derek Keir – Afar/Aden example

Talk 2 (25 min): Suzanne Baldwin – Woodlark basin example

9:30 am break & posters

10:00 am **Theme Session 2 – Evolution** (Donna Shillington) – How do fundamental rifting processes (such as tectonics, magmatism, and erosion, transport, and sedimentation), and the feedbacks between them, evolve in time and space?

Science Plan Review (10 min max)

Talk 1 (25 min): Luc Lavier – model perspective

Talk 2 (25 min) Graham Kent – observation perspective

11:00 am Grad-student poster pop-ups (1 min each)

11:20 am Charge to Break-Out Groups (Mike Oskin)

11:30 am - Acoma North /Acoma South / Zuni Ballroom

**Break outs 1 & 2** (small groups discuss, each w/leader and scribe) talk about this science topic. 4 groups, two sets of questions (theme 1 and theme 2). Issues to consider: a) What is the compelling science? b) What is achievable in 5 years? c) What is achievable in 10 years (GeoPRISMS nominal lifetime)? d) What are highest priorities for sequestered GeoPRISMS program funds? e) Which themes require Primary Sites for concentrated, collaborative investigations? f) What specific types of experiments or observations are needed at these sites? g) Provide a ppt summary slide of implementation strategy.

12:30 pm - Chaco Ballroom / Students in Acoma North / Conveners in Acoma South

Lunch & posters

2:00 pm - Zuni Ballroom

**Theme Session 3 - Architecture** (Jolante van Wijk) - What controls the structural and stratigraphic architecture of rifted continental margins during and after breakup?

Science Plan Review (10 min max)

Talk 1 (25 min): Wonsuck Kim – stratigraphic architecture

Talk 2 (25 min): Frank Bilotti – passive margin deformation

3:00 pm break & posters

3:30 pm **Theme Session 4 - Fluids** (Peter Flemings) - What are the mechanisms and consequences of fluid and volatile exchange between the Earth, oceans, and atmosphere at rifted continental margins, and between the lithosphere and the mantle?

Science Plan Review (10 min max)

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Talk 1 (25 min): [Tobias Fischer](#)– mantle / volcanism

Talk 2 (25 min): [Joe Cartwright](#) – crustal fluid systems

4:30 pm - *Acoma North /Acoma South / Zuni Ballroom*

**Break outs 3 & 4** (small groups discuss). See above.

5:30 pm Break for dinner on your own– recommend that break-out group report writers eat together. Grad-student group dinner.

7:00-9:00 pm - *Tesuque Ballroom*

**Poster session** / breakout group report preparation / grad-student poster judging

### Friday November 5<sup>th</sup>:

7:30 am - *Zuni Ballroom*

Coffee and Muffins & poster trade-out (take down day 1, post day 2)

8:00 am Overview of schedule and goals of day ([Mike Oskin](#))

8:10 am **Break-out 1A & 1B report & discussion** (10 min presentation from each group, followed by 15 minute discussion of theme implementation strategy)

8:45 am Talk (25 min) [Mousumi Roy](#) – Earthscope collaboration opportunities

9:10 am **Break-out 2A & 2B report & discussion**

9:45 am Break

10:00 am Talk (25 min) [Carolyn Ruppel](#) – USGS & IODP collaboration opportunities

10:25 am **Break-out 3A & 3B report & discussion**

11:00 am Talk (25 min) [Lori Summa](#) – industry collaboration opportunities

11:25 am **Break-out 4A & 4B report & discussion**

12:00 pm Lunch (& grad student implementation report prep).

1:30 pm **Implementation Strategies 1** (Short talks based on submitted white papers)

2:45 pm Break

3:00 pm **Grad student-led presentation on implementation strategy**

3:30 pm **Implementation Strategies 2**

4:45 pm Charge to break-out groups and discussion of site ranking procedure

5:00 pm - *Chaco East/Chaco West/Zunni Ballroom*

**Break-out group discussion:** Formulate 1 or 2 straw implementation plans based on evaluation of sites, White Paper presentations.

6:00 pm - *Zuni Ballroom*

Meeting banquet, award for best grad-student poster, & special presentation ([Karl Karlstrom](#) & [Laura Crossey](#))

7:30 pm - *Tesuque Ballroom*

**Poster Session** & break-out group report preparation

### Saturday November 6<sup>th</sup>:

7:30 am - *Acoma Ballroom*

Coffee and Muffins

8:00 am Intro to structure of science plan writing and organization of day ([Mike Oskin](#))

8:15 am **Group Discussion of Overall Implementation Plan** (including reports of break-out groups from end of day 2)

a) What is the compelling science?

b) What is achievable in 5 years?

c) What is achievable in 10 years (GeoPRISMS nominal lifetime)?

d) Which themes require Primary Sites for concentrated, collaborative investigations?

e) What are highest priorities for sequestered GeoPRISMS program funds?

9:45 am Summarize viable implementation strategies for consideration.

10:00 am Break & non-binding secret ballot on implementation strategies

10:30 am **Group Discussion of Primary Sites**

11:30 am **Decision on Primary Sites** (by consensus or by ballot)

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12:00 pm Meeting ends, optional half-day field trip  
12:00 pm Lunch (writing team only)  
1:00-5:00 pm Writing team meeting

12pm Field Trip: half day field trip along the Rio Grande Rift and science writing team meeting.