2019 GeoPRISMS Synthesis & Integration
Theoretical & Experimental Institute

Conveners:
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3-year staggered terms

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NSF Program Officers and many former GSOC and Margins Steering Committee members are here – feel free to ask them about the program!
**TEIs and Workshops**

- **2015 SCD TEI**
  - ~130 participants
  - >50% ECI

- **2017 RIE TEI**:
  - 133 participants
  - 59 Students & postdocs

- **2019 Synthesis & Integration TEI**
  - ~170 participants
  - ~70 students/postdocs
Underpinnings of GeoPRISMS Science

• Two integrated initiatives:
  • Rift Initiation & Evolution
  • Subduction Cycles & Deformation

• Cross-cutting thematic studies
  • Evolution of continental crust
  • Fluids, melts, and their interactions
  • Tectonic-sediment-climate feedbacks
  • Geochemical cycles
  • Plate boundary deformation

• A vibrant interdisciplinary research community and an intellectual incubator for collaborative research.
What is a Theoretical and Experimental Institute?

A hybrid workshop, symposium, and short-course – designed to:

• Share and discuss major advances & key findings (state of the science)
• Identify emerging questions, knowledge gaps
• Integrate findings across primary sites and disciplines
• Define new & necessary data, models, experiments, or collaborations
TEI Charge:

- Identify emerging directions and/or burning questions – pointing to new collaborations, directions, and/or a need for focused workshops.
- Engage ECI and students, foster cross-disciplinary exchange of expertise & results, and identify areas primed for advances through interdisciplinary collaboration.
- Position the GeoPRISMS community & its substantial intellectual momentum for what’s next: beyond just listing questions. Define and articulate future science and what’s needed to make it happen.
- Develop concrete ideas for legacy products or activities, including both science and E&O.
Major Fall 2019 Newsletter

- Invited thematic and primary site reviews
- Individual project “nuggets”
- Summary of DLP, AGU awardees
- Profiles of scientists whose careers incubated in MARGINS /GeoPRISMS
- Forward looking pieces on opportunities and emerging questions
- An important legacy product