

SAGE Faculty Meeting Notes  
11/29/2021

Agenda

Welcome Lee & Pieter and the new seismic group of Akram, David, John, Lee & Pieter!

- Three apps for junior seismic position – seismic group will be interviewing
- Decisions made

Operational necessities

- Schedule
- SAGE fee
- Flyer list – distribute before AGU
- Website up and current

SEGF/Chevron update

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Seismic Options

David: been talking mostly about active seismic with Lee; good ideas for sources. Converging on medium-source to complete 2D line we started with Vibe, focusing on top 500m of sediment to paleolake bottom, maybe some near-surface depending on where other people are going. Also about schedules, re: overlap; starting together, maybe lee going back to Idaho while David works with SAGE, then Lee comes back and David leaves

Lee: negotiating NSF rate for small vibe from Neary group, UT.

Lu: watch budget. Lee considering putting together a proposal to NSF for instrumentation grant; Darcy, collaborate? (not for 2022)

Akram: spoke with Pieter, for passive seismic. Both research/field work and processing.

Paul: for NSF proposal, want to consider all possible sources; might just put all in to cover our bases.

Main thing is, need both active and passive to crystallize enough in terms of where going, what sources. Do we even want to consider anything more than thumper/mini-vibe?

Lee: recognize IRIS is moving beyond seismic also, so if pitching to NSF, extend beyond seismic.

Lu: we have Jared and Paul for MT, and Sensors and Software for GPR, but good to keep in mind. IRIS potentially working on near-surface project?

**For national parks, need 2022 details.**

Akram: good convo with Michael Leventhal? Runs IRIS internship; seeing if we could get continuous use of passive/active? data by a student, with IRIS funding. Very open to idea!

Paul: mentioned in terms of IRIS interns re: processing. Any possibility of using interns to maintain broadband seismometers?

Akram: Would have to come up with a plan, define research project for student beforehand. One way, write a proposal in mid Feb and submit proposal for coming student, develop field plan and research plan for student. Also depends on where the student would end up doing the work; could come to IRIS/PASSCAL, do orientation, get acquainted with project plan, do SAGE with Akram, (could do passive or somethings else), maybe go with Akram to continue research after, or go back with other SAGE faculty to continue IRIS intern.

Paul: cost to SAGE?

Akram: Michael figures there shouldn't be much cost to SAGE;

Lu: possibilities: IRIS underwrites them to be out for passive install, then lets them go to SAGE, VS IRIS pays all their expenses and SAGE fee

Akram: clearly some joint plan; has predefined research, vs normal SAGE student.

Lu: also good that it will move the science forward; if we could get 2 that would be huge.

Darcy: IRIS also picks up AGU expenses! Great opportunity

Lee: have hosted 8-9 IRIS students; happy to contribute

Lu: Akram, Lee, Lu for IRIS subcommittee; add Pieter?

Lee: could even propose one for MT and one for Seismic, but would need one PI to do the proposal

Akram: two ways to fund; Michael has REU funding for a certain number of students, for 10 where anyone can write a proposal and IRIS selects a student; another 5, the money comes from faculty/host institution and IRIS does the selection process

Lu: could Megan, e.g., write a proposal to work on the gravity data? Do you need equipment from IRIS?

Akram: never seen anything not seismic, but maybe not impossible

Darcy: doesn't have to be

Lu: Jared could get USGS intern maybe??

Lee: students put in a range of interests; every non-COVID year, students go to Socorro for field training; could integrate with SAGE?? worth a conversation with Micheal

Lu: David brought up last year; Jared/Paul, would an IRIS intern work in your structure? Would you be interested in writing that proposal for an MT intern?

Paul: sounds like not limited to degree-granting faculty; if so, could be value there for sure. Still have old Unical data, needs to be hacked through and worked on, opportunity for 3D inversion beyond normal SAGE scope!

Lu: do we want one seismic, one MT? Or two seismic? Not 100% on the odds there

Paul: might not have to be discipline-focused (barring broadband maintenance proposal); could be focused on caldera structure, or fens . . . .

Lu: Jared?

Have some time to think about it, but not much; Akram, Lee, Lu, Darcy, have a meeting to see what this would look like? Need specifics. One thing that pops to mind: are we bonding too close to IRIS? Worthwhile to consider possible drawbacks.

Lee: NAGT internship program also possible path

Lu: Thank you! Good thoughts

David: Other possibility is collaborative boot camp for multiple universities, getting some part of a field camp budget from each

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## Seismic ad

Lu: looking for "Junior Seismic Faculty" as continuity for SAGE; looks like lots of coming and going for rest of seismic team

3 applications

UC Riverside, UT Austin, Socorro

Darcy: also keeping SAGE's future in mind; bringing in someone totally new, not just an ex-SAGE person, for fresh ideas.

Lu: should get Danny Piccone as a TA; might be a good person to tap eventually

Will discuss this afternoon:

Jillian Goldhagen, someone Igonen, Nadiya someone from UTA

Paul: none of these three people have active seismic experience?

Darcy: I think one did?

Lee: depends on if we want them to lead the processing, how long we expect to hang on to them; passive background likely to miss nuances of active processing. David, would a student you have be an appropriate tap?

David: depends what we're trying to accomplish; thought we were looking for someone with more maturity and experience; also, big difference between active and passive; rare to get people

good at both. Need clarity about most need for that person, too. Looks like we're fairly well covered with Akram and Pieter on passive; looks like we need to shore up active, if we still want it we should target it harder.

Lu: function is higher-level continuity for dedicated seismic, not necessarily expertise

David: will be asking if people feel comfortable taking active long term position during interviews

Lu: right

Akram: didn't get that expectation from job app; clearly said 2-month timeline, didn't seem like Statements of Purpose were expecting long commitment either

Lu: would like to bring it up in interview also; asked Pieter similarly

Darcy: you're right, wasn't really a SAGE faculty ad; more just need help in 2022

Lee: would you consider cherry-picking an active seismologist? Could find that

Lu: Y E S

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### Operational things

Lu: if you haven't gotten into Google Drive for schedule, get in; always assuming a day + or -, so doesn't have to be absolute

Lots of deadlines coming up; SEG wants a report soon, plus proposal; Chevron asking about annual report, as is ExxonMobil

will start with outline, ask you to fill some in, review with Darcy and then send around before submitting

Oliver, make sure website is shiny before AGU, get flier together

Lu: Paul just got Hohmann Award; probably giving in Berkeley

Have old email list?

Darcy: Danny should have that

Lu: should update that; find it, send it around, look it over, cross out or fill in changes. Fee: \$750 is what we did last year, is a useful chunk of change for SAGE. Brought in \$50,000 last year?

Will be \$22,500 with expected number of students

Add Association for Women Geophysicists to website for grants?

Darcy: have climbed up, but inflation is real; will cost more this summer

John: compared to geo camps, is a bargain; \$750 is fair, but may need handle on budget to say for sure; will we start losing students?

Oliver: keep at \$750

Darcy: up to \$1000

Shari: keep

Lee: up, offer scholarship; also, 3%

Paul: up, offer scholarship

Akram: not clear on factors, going with up

David: \$1000, is a deal

Jared: with Paul and Lee; up, with scholarships

Paul: didn't we have something before re: financial need?

Lu: had individuals ask directly for help; was going to make a personal loan. Could drop down to \$500 or \$250 for some

Lee: IRIS is a paid internship; could try routing students with need through it? Could sap from that pay?

John: also have to consider transport costs

Megan: was going to say \$800, or \$1000 with scholarships; not flat \$1000

Lu: Done! Will be lots of activity re: annual report, seismic hiring