

Special Interest Groups https://cascadiaquakes.org/sigs/

CRESCENT Special Interest Groups (SIGs) are proto-working groups, receiving little funding or requiring advancements from other working groups, but established as a clear priority in center science and societal needs.

Special Interest Group 1

Offshore **Observations**

Contact Us

Mission: The area where the next large subduction zone earthquake will occur is offshore and has very few instruments located on it. Enhancing the number and quality of offshore sensors is critical to advancing future CRESCENT science goals and is of substantial interest for regional partners. This SIG will gather broad community input on observational needs and priorities for these sensors and measurements.

Group members are: William Wilcock: wilcock@uw.edu; David Schmidt: <u>dasc@uw.edu</u>; Doug Toomey: <u>drt@uoregon.edu</u>

Special Interest Group 2

Ground-Motion Modeling

Mission: Shaking from earthquake poses a hazard to people and the built environment, but many factors and inputs are required to accurately predict future shaking. This SIG seeks to advance our models and estimates of ground shaking in the region using products that emerge from CRESCENT (such as the CVM, and earthquake models from DET). They aim to direct these studies towards advancing computational abilities for ground motion modeling and applied research questions posed by partners.

Contact Us

Group members are: Valerie Sahakian: vis@uoregon.edu; Erin Wirth: <u>ewirth@usgs.gov; alex grant: agrant@usgs.gov</u>



Special Interest Group 3

Ground Failure

Mission: landslides and Failure, Ground such as liquefaction, are a prominent natural hazard in Cascadia, and are often a cascading hazard, or result, of large earthquakes. This SIG aims to understand the nature of these hazards by studying past ground failure, and developing societally relevant products, which are crucial for many hazards-focused agencies (i.e., USGS, DOGAMI, CGS, WA DNR, etc.).

Contact Us

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Information about CRESCENT can be found at https://cascadiaguakes.org/. Please check our website if you would like to subscribe to our newsletter, join our mailing lists, and find dates for upcoming events. You may also join the CRESCENT SLACK community channel to stay connected.

Mission:

Fluids are ubiquitous in the Earth's crust and play a fundamental role in many things including triggering of deep earthquakes and melting of rock that feeds active volcanoes. This SIG will work towards constructing a community Cascadia Fluids Model that maps the presence of fluids and can be used in other model building efforts such as CVM, CFM, C3S, and Ground