

Inland Geological Society

November 2025

Next Meeting:

**Tuesday,
November 4th**

Time:

Social: 6:00pm

Dinner 6:15pm

Presentation:
7:00pm

Location:

3 Iron

Brewing Company
898 South Via Lata,
Suite A
Colton, CA 92324

Coming to Dinner?

Students \$10 IGS

Members \$12 Non-

Members \$15

Please RSVP by

October 31st to:

rsvp.igs@gmail.com

Newsletter of the Inland Geological Society Volume 37 No. 9

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October Speaker: Dr. Tandis Bidgoli

"Resolving space-time strain paths in the central Basin and Range through bedrock thermochronology"

Abstract:

The current form of the Pacific-North American plate boundary is the result of a complex evolution from a subduction zone to a transform boundary. Changes in the kinematics and dynamics of the plate boundary have predictable consequences for deformation within the central Basin and Range in southern Nevada and eastern California. However, uncertainties in the timing, magnitude, and spatial distribution of extension and later transtension have made reconstructions of Cenozoic intraplate deformation difficult. This presentation shares results from low-temperature thermochronologic investigations of major fault-bounded ranges in the central Basin and Range. Thermochronologic data are integrated with published geologic and structural data in order to determine a detailed history of extensional deformation in the region, and the timing and spatial progression of the transition to transtensional deformation. These data are used to address two main questions. (1) How closely in time do the structural style and fault kinematics of intraplate deformation match changes in plate motion? (2) If the timing is very different, either locally or regionally, are there other dynamic processes that must be considered during the Cenozoic tectonic evolution of the western U.S.?

Speaker Biography:

Tandis Bidgoli is an Associate Professor in the Department of Geological Sciences at California State University San Bernardino (CSUSB). She earned her doctorate in Geology from the University of Kansas where she studied crustal deformation in the Basin and Range province of southern Nevada and southeastern California. Before joining CSUSB, she held faculty and research scientist appointments with the University of Missouri (2018-2022) and Kansas Geological Survey (2014-2018), respectively. Her research focuses on evaluating temporal and spatial patterns of strain, with the goal of understanding the mechanisms and drivers of deformation and landscape evolution.

ANNOUNCEMENTS:

The Inland Geological Society will meet the second Tuesday of each month at:

3 Iron Brewing Company

898 South Via Lata , Suite A

Colton, California 92324

(<https://www.3ironbrewingco.com>)

Our next meeting is scheduled for Tuesday, December 9, 2024.

Visit our:

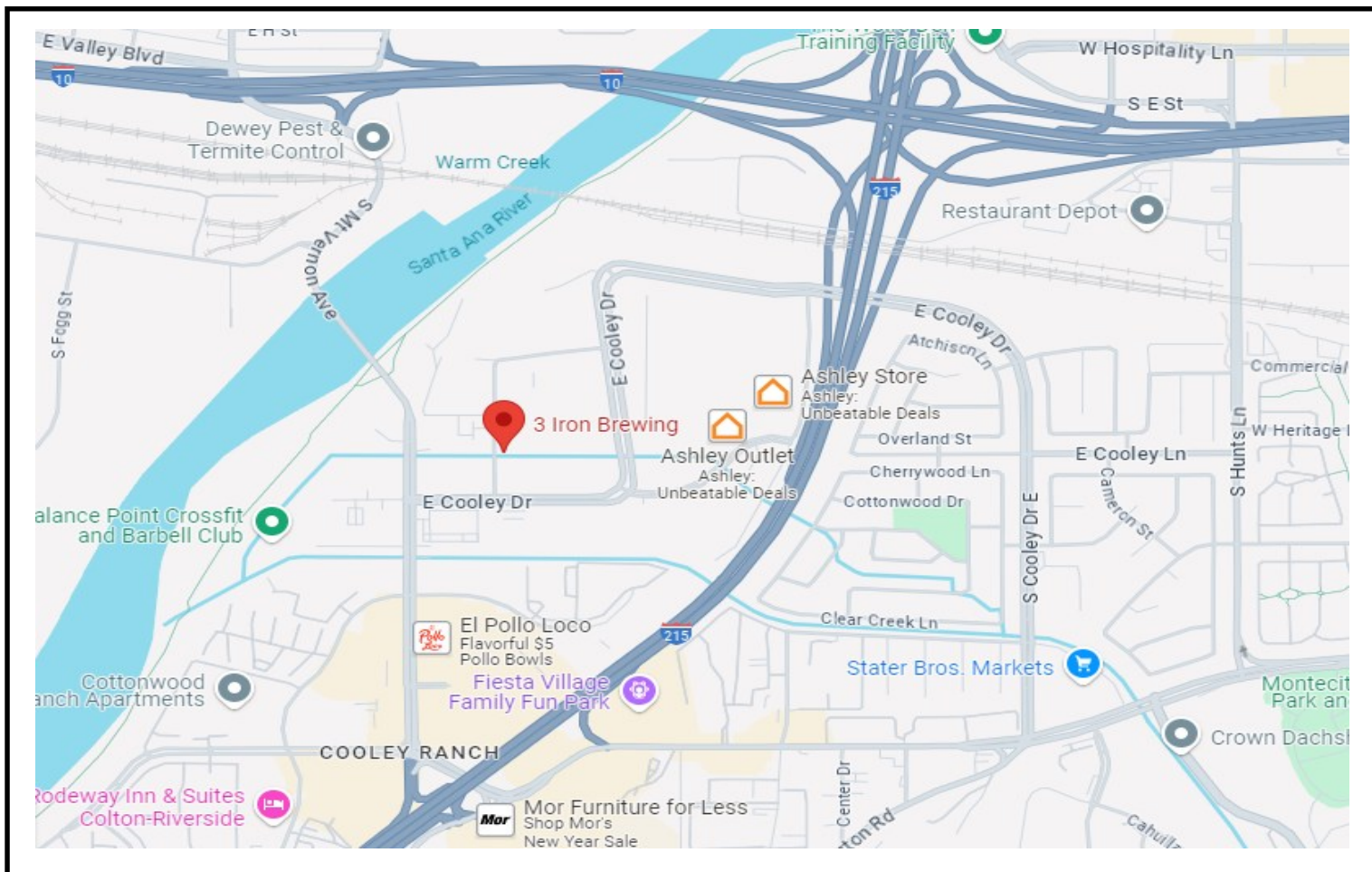
- Webpage at <https://www.inlandgeo.org>.
- Facebook Page at <https://www.facebook.com/groups/InlandGeo/>.

IGS coffee mugs are available at the monthly meetings for \$10. Get yours at the upcoming meeting!



3 Iron Brewing Company

898 South Via Lata , Suite A
Colton, California 92324



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