

GSA Submissions

Faculty

Brenda Buck

Co-Author: Session 88, October 29th, 2:15-2:30pm

Geomorphology

PEDOGENIC BARITE, PLYGORSKITE, AND SEPIOLITE IN PETROCALCIC HORIZONS AT MORMON MESA, NEVADA: IMPLICATIONS FOR SOIL WATER MOVEMENT

[Abstract](#)

Jean Cline

Co-Author (with Haroldo Lledo): Session 149, October 30th, 4:15-4:30pm

Economic Geology

THE SEARCHLIGHT MINING DISTRICT, NEVADA: LINKING LOW SULFIDATION EPITHERMAL MINERALIZATION WITH AN UNDERLYING GRANITIC PLUTON

[Abstract](#)

Co-Author (with Lora Griffin): Session 234, October 31st, 1:30-5:30pm

Economic Geology (Posters)

KEY ALTERATION SUBTLETIES IN CARLIN-TYPE GOLD DEPOSITS, NORTHERN NEVADA

[Abstract](#)

Andrew Hanson

Co-Author (with Michael Wells, Peter Druschke): Session 32, October 28th, 2:30-2:45pm

Structural Geology

LATE CRETACEOUS EXTENSIONAL COLLAPSE OF THE SEVIER HINTERLAND: STRUCTURAL AND STRATIGRAPHIC EVIDENCE FROM THE SHEEP PASS FORMATION, EAST-CENTRAL NEVADA

[Abstract](#)

Ganqing Jiang:

Presenting: Session 28, October 28th, 8:00-12:00

Late Paleozoic Glacial-interglacial Climate Changes: Analogs for Present and Future Climate Changes (Posters)

TROPICAL CYCLONES AND AQUATIC WETLANDS OF THE LATE CHESTERIAN BATTLESHIP WASH FORMATION (GREAT BASIN, ARROW CANYON, NEVADA)

[Abstract](#)

Presenting: Session 147, October 30th, 8:00-12:00

Emerging New Methods in Early Earth Studies: Unraveling the Co-Evolution of Earth and Life (Posters)

SPATIAL ISOTOPE VARIATIONS OF THE EDIACARAN SUCCESSION IN SOUTH CHINA:
IMPLICATIONS FOR THE CHEMOCLINE INSTABILITY ACROSS DEPOSITIONAL
ENVIRONMENTS

[Abstract](#)

Presenting: Session 130, October 30th, 11:05-11:20am

Late Paleozoic Glacial-interglacial Climate Changes: Analogs for Present and Future Climate Changes
GONDWANAN SUPERGLACIATION (CARBONIFEROUS) - GLACIAL II (GSG-II):
INTEGRATION OF STRONTIUM, OXYGEN AND CARBON ISOTOPE SEAWATER RECORDS

[Abstract](#)

Co-Author (with Robyn Howley): Session 55, October 28, 1:30-5:30pm

Stratigraphy (Posters)

SEQUENCE STRATIGRAPHY OF THE MIDDLE CAMBRIAN SUCCESSION IN EASTERN
NEVADA AND WESTERN UTAH: EVIDENCE FOR THE INITIATION AND TERMINATION OF
THE HOUSE RANGE EMBAYMENT

[Abstract](#)

Co-Author: Session 166, October 30th, 5:00-5:15pm

Emerging New Methods in Early Earth Studies: Unraveling the Co-Evolution of Earth and Life
CARBON AND SULFUR ISOTOPES, REDOX CONDITIONS, AND BIOLOGICAL EVOLUTION
IN THE EDIACARAN DOUSHANTUO FORMATION

[Abstract](#)

Co-Author: Session 183, October 31st, 8:30-8:45am

Paleoclimatology/Paleoceanography I

CARBON ISOTOPE EVIDENCE FOR METHANE SEEPS IN THE 635 MA DOUSHANTUO CAP
CARBONATE AT MULTIPLE GEOGRAPHIC LOCALITIES IN SOUTH CHINA

[Abstract](#)

Kim Johnson

Presenting (Robyn Howley: Co-Author): Session 206, October 31st, 8:00-12:00

Geoscience Education (Posters)

TEACHING TEACHERS THROUGH FIELD EXPERIENCES: A STUDY ON THE EARTH-
SYSTEM APPROACH FOR EARTH SCIENCE CURRICULUM DEVELOPMENT

[Abstract](#)

Dave Kreamer

Presiding: Session 194, October 31st, 8:00-12:00

Hydrogeological Research, Capacity Building, and Teaching in the Developing World I

Presiding: Session 223, October 31st, 1:30-5:30pm

Hydrogeological Research, Capacity Building, and Teaching in the Developing World II

Presenting: Session 194, October 31st, 9:05-9:20am

Hydrogeological Research, Capacity Building, and Teaching in the Developing World I
STRATEGIES FOR GROUNDWATER QUALITY IMPROVEMENT IN SUB SAHARAN AFRICA -
LEARNING FROM INTERNATIONAL EXPERIENCE

[Abstract](#)

Matt Lachniet

Co-Author (with Steve Rowland, Lael Vetter): Session 144, October 30th, 8:00-12:00

Paleontology (Posters) II

Environments, Ecosystems, and Interactions

PALEOECOLOGY OF PLEISTOCENE MEGAFUNA IN SOUTHERN NEVADA: ISOTOPIC
EVIDENCE FOR BROWSING ON HALOPHYTIC PLANTS

[Abstract](#)

Haroldo Lledo

Presenting (Jean Cline: Co-Author): Session 149, October 30th, 4:15-4:30pm

Economic Geology

THE SEARCHLIGHT MINING DISTRICT, NEVADA: LINKING LOW SULFIDATION
EPITHERMAL MINERALIZATION WITH AN UNDERLYING GRANITIC PLUTON

[Abstract](#)

Rod Metcalf

Co-Author: Session 229, October 31st, 1:55-2:10pm

A Synoptic Crustal Section from the Cascadia Margin to the Southern Appalachians: Focusing
EarthScope Research on Crustal Domains, their Boundaries, and Fundamental Processes of the U.S.
Continent

IMAGING ACCRETED TERRANES AT THE CASCADIA MARGIN: THE KLAMATH
MOUNTAINS PROVINCE OF CALIFORNIA AND OREGON

[Abstract](#)

Steve Rowland

Presiding: Session 141, October 27th, 8:00-12:00

Exemplars and Exceptions: Using Individual and Group Biography to Understand Critical Issues in the
History of Geology

Presenting: Session 141, October 27th, 10:50-11:05am

THE CAREER OF JAMES E. THURSTON AND THE EXTINCTION OF THE PROFESSIONAL
FIELD COLLECTOR IN NORTH AMERICAN VERTEBRATE PALEONTOLOGY

[Abstract](#)

Co-Author (with Matt Lachniet, Lael Vetter): Session 144, October 30th, 8:00-12:00

Paleontology (Posters) II: Environments, Ecosystems, and Interactions

PALEOECOLOGY OF PLEISTOCENE MEGAFUNA IN SOUTHERN NEVADA: ISOTOPIC EVIDENCE FOR BROWSING ON HALOPHYTIC PLANTS

[Abstract](#)

Terry Spell

Co-Author (with Michael Wells, Tonia Arriola, Tom Hoisch): Session 83, October 29th, 8:00-12:00

Structural Geology and Tectonics (Posters)

A MID-CRETACEOUS AGE FOR SYNCONVERGENT OROGEN-PARALLEL EXTENSION IN THE INTERIOR OF THE SEVIER OROGEN CONSTRAINED BY LASERPROBE $^{40}\text{AR}/^{39}\text{AR}$ DATING OF STRAIN FRINGES

[Abstract](#)

Co-Author (with Katie Wooton): Session 143, October 30th, 8:00-12:00

Mineralogy/Crystallography; Petrology; Volcanology (Posters)

LATEST YELLOWSTONE VOLCANISM: ROARING MOUNTAIN RHYOLITES, YELLOWSTONE VOLCANIC FIELD, WYOMING

[Abstract](#)

Michael Wells

Presenting (Terry Spell, Tonia Arriola, Tom Hoisch: Co-Authors): Session 83, October 29th, 8:00-12:00

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[Abstract](#)

Co-Author: Session 123, October 30th, 8:15-8:30am

Tectonics; Neotectonics/Paleoseismology I

STABLE ISOTOPE PALEOALTIMETRY IN COUPLED BASIN-DETACHMENT SYSTEMS OF THE NORTH AMERICAN CORDILLERA

[Abstract](#)

Students

Tonia Arriola

Co-Author (with Michael Wells, Terry Spell, Tom Hoisch): Session 83, October 29th, 8:00-12:00

Structural Geology and Tectonics (Posters)

A MID-CRETACEOUS AGE FOR SYNCONVERGENT OROGEN-PARALLEL EXTENSION IN THE INTERIOR OF THE SEVIER OROGEN CONSTRAINED BY LASERPROBE $^{40}\text{AR}/^{39}\text{AR}$ DATING OF STRAIN FRINGES

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Peter Druschke

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[Abstract](#)

Steve Maglio

Presenting: Session 209, October 31st, 8:00-12:00

Planetary Geology: Potpourri (Posters)

AN EXPERIMENTAL STUDY IN THE $Mg_2SiO_4-Fe_{1-x}S-H_2O$ SYSTEM: IMPLICATIONS FOR GANYMEDE'S INTERIOR

[Abstract](#)

Katie Wooton

Presenting (Terry Spell: Co-Author): Session 143, October 30th, 8:00-12:00

Mineralogy/Crystallography; Petrology; Volcanology (Posters)

LATEST YELLOWSTONE VOLCANISM: ROARING MOUNTAIN RHYOLITES,
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[Abstract](#)