

# **GRAND JUNCTION GEOLOGICAL SOCIETY**

[www.gjgs.org](http://www.gjgs.org)

**JANUARY MEETING**

**WEDNESDAY, JANUARY 27, 2021**

**7:30 PM**

**Joint meeting with the CMU Geology Students**

**Due to the pandemic, the meeting will be conducted in Zoom  
(Zoom instructions on next page)**

**Dr. Sally Potter-McIntyre  
Department of Geological Sciences,  
Southern Illinois University  
Carbondale, Illinois**

**Will Speak On**

**“Concretions: Records of subsurface fluid/rock/biota  
interactions”**

**Guests Are Always Welcome  
Abstract on Next Page**

**Concretions: Records of subsurface fluid/rock/biota interactions**  
**Dr. Sally Potter-McIntyre**

**Abstract:** Concretions are cemented mineral masses that form during diagenesis and preserve a record of fluid chemistries, cement mineralogies, biotic influence, and timing of precipitation. Important issues of authigenic minerals (leading to fluid composition), diagenetic textures, and age dating are all key to deciphering the complex relationship and diagenetic histories. Models for spheroidal concretion formation are evaluated. Understanding how iron is mobilized and precipitated and how spheroidal concretions form have implications for similar geometries and mineralogies in many terrestrial regions as well as on other planets but will require continued integrated studies across multiple scales.

### **Zoom invitation**

Topic: GJGS Jan meeting

Time: Jan 27, 2021 07:00 PM Mountain Time (US and Canada)

Join Zoom Meeting (by computer)

<https://coloradomesa.zoom.us/j/95869211550?pwd=bmpyMlVvYjJJOVA2dGIJbHZQRTdrUT09>

Meeting ID: 958 6921 1550

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