## GRAND JUNCTION GEOLOGICAL SOCIETY

www.gjgs.org

**OCTOBER MEETING** 

WEDNESDAY, OCTOBER 18, 2023 Joint meeting with the CMU Geology Students 7:30 PM Saccomanno Lecture Hall (Room 131 in the Wubben-Science Building)

> David Lipson, Ph.D., C.P.G. HRS Water Consultants, Inc. Lakewood, CO

> > Will Speak On

"Hydrogeology Careers in the 21st Century"

Guests Are Always Welcome Abstract and Speaker's bio on Next Page

The speaker will present in person although we will also have Zoom available. Zoom invite follows the abstract and speaker's bio.

## Abstract: Hydrogeology Careers in the 21<sup>st</sup> Century David Lipson, Ph.D., C.P.G.

Hydrogeology is a branch of geology that deals with the distribution and movement of groundwater in soil and rock layers of the Earth's crust, and the ways in which humans interact with groundwater through either natural or engineered systems. Hydrogeology is a multidisciplinary field and, in order to be well-rounded hydrogeologists, students must master a variety of topics including geology, hydrology, chemistry, biology, fluid dynamics, and other topics. Some of the main concerns in hydrogeology include water supply, water quality, groundwater-surface water interactions, waste disposal, groundwater contamination, and construction of structures that interact with groundwater.

21<sup>st</sup>-century societies are faced with large-scale and long-lasting global problems such as population growth, aging infrastructure, and climate change, which will drive the need for evergreater progress and innovation in hydrogeology for the foreseeable future. Clean water for people is a necessity for life and a basic human right. Yet the Earth's water resources are constantly under pressure from these global-scale problems. The good news is that the scientific advances of the past 50 years will enable early-career hydrogeologists to solve water problems over the next 50 years.

There is a tremendous need for hydrogeologic expertise in the 21<sup>st</sup> century and people with a passion for solving water problems are and will continue to be in high demand. Dr. Lipson's talk will draw from his more than 33 years of experience solving groundwater problems around the US and internationally. During his talk, he will describe different types of careers that are available for hydrogeologists, highlight different kinds of water problems that need to be solved now, and provide career advice on how to be a successful hydrogeologist in the 21<sup>st</sup> century.

**Bio.** David S. Lipson, Ph.D., P.G., is a Principal Hydrogeologist specializing in groundwater and surface-water hydrology, groundwater-surface water interactions, water quality, fate and transport of contaminants including PFAS, groundwater remediation, geochemistry, and aquifer storage and recovery (ASR). Dr. Lipson brings more than 33 years of experience working in Colorado, throughout the U.S., and internationally, solving complicated water and environmental problems. He has served as an Adjunct Professor at Colorado School of Mines where he taught Advanced Topics in Hydrogeology, and has served as a Visiting Professor at the Chinese Academy of Sciences in Nanjing. He is an editor of the widely-read scientific journal Groundwater, and served on the Board of Directors of the Scientists and Engineers Section of the National Ground Water Association (NGWA). <u>dlipson@hrswater.com</u>

Andres Aslan is inviting you to a scheduled Zoom meeting.

Topic: GJGS Oct. meeting

Time: Oct 18, 2023 07:00 PM Mountain Time (US and Canada)

Join Zoom Meeting

https://coloradomesa.zoom.us/j/96837530667

Meeting ID: 968 3753 0667

Note: The Zoom meeting opens a half-hour before the actual meeting starts so that people have time to log in if not attending in person.