



**KAMLOOPS**  
**EXPLORATION** GROUP

**Thank you to our 2024  
KEG Lecture Series Sponsor**



## Volcanoes, Hydrothermal Vents, and Living Fossils – Exploration and Discovery Along the Submarine Galapagos Rift

---

During the Fall of 2023, Dr. John Jamieson led a 5-week multidisciplinary expedition to the Galapagos Rift, a mid-ocean ridge near the Galapagos Islands. The expedition took place aboard Schmidt Ocean Institute's R/V Falkor (too), and used a remotely-operated vehicle to map and sample volcanoes and hydrothermal vents along the rift. The use of several new very-high resolution acoustic mapping technologies led to the discovery of a new high-temperature "black smoker" hydrothermal vent field within the crater of a volcanic complex near the Galapagos Islands. The mapping and video surveys of the seafloor along the volcanic rift also led to the discovery of 15 animal species not previously known in this part of the ocean. This presentation will provide a visual journey through these newly-discovered geological and biological wonders of the Galapagos Rift.