

J03: Robotics in the earth and oceanographic sciences

Conveners: Claire Samson¹, and Murray Richardson²

Co-chairs: Claire Samson¹, and Murray Richardson²

¹ Dept. of Earth Sciences, Carleton U., Ottawa, ON, K1S 5B6

Phone: 613-520-2600 x.4396 Fax: 613-520-5613, E-mail: claire.samson@carleton.ca

² Dept. of Geography and Environmental Studies, Carleton U., Ottawa, ON, K1S 5B6 Phone:
613-520-2600 x.2574 Fax: 613-520-4301,
E-mail: murray.richardson@carleton.ca

Session Description

This session focuses on robotic platforms such as unmanned air vehicles (UAVs), unmanned ground vehicles (UGVs) and remotely-operated underwater systems, and their applications in the earth and oceanographic sciences. The session will cover all aspects of these emerging technologies, from platform design to mission planning and data interpretation. Abstracts are invited that feature robotic systems of different types, equipped with various sensors (imaging systems, geophysical instruments, terramechanic sensors, etc.). Case histories on robotic missions are particularly welcome, including but not limited to, geological mapping, ecosystem monitoring, detection of unexploded ordnance, and surveying in toxic environments. The session aims at bringing together people from a wide range of scientific and engineering disciplines, from hazard management to soil sciences.

Primary Affiliation: Joint CGU/CSAFM