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The CMOS HALIFAX CENTRE and the OCEANOGRAPHY DEPARTMENT
present the Canadian National Committee/Scientific Committee
for Ocean Research (CNC/SCOR) 2009 Eastern Tour

**Hydrothermal vent ecosystems of Pacific
Ocean volcanic arcs - Mariana and South Tonga**

by

Dr. Kim Juniper
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Thursday, April 23, 2009 at 11:00 am
Room 5263 Psychology Wing, Life Sciences Centre, Dalhousie University

Abstract

Dr. Kim Juniper will describe research by his laboratory and collaborators into the ecology of hydrothermal vent biological communities associated with arc volcanism in the western and southern Pacific Ocean. These deep-sea hot springs were discovered during joint Canada-US and Canada-Germany expeditions from 2004-2007. Much of this research is focusing on ecosystem adaptations to unusual habitat features that characterize these submarine volcanoes. These include perturbation by ongoing underwater volcanic activity, photic zone hydrothermalism and potentially hybrid chemosynthetic-photosynthetic food webs, liquid carbon dioxide vents, venting through volcanoclastic sands, and liquid sulphur lakes on the seafloor.

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