

Training Course on Marine Radioactivity at the 2017 Goldschmidt Conference
Sunday 13 August 2017
Paris, France

Overview

The Training Course on Marine Radioactivity will be held in the Institut de Physique du Globe de Paris (IPGP), August 13 2017. The event is organized by [SCOR 146 Working Group: Radioactivity in the Ocean, 5 decades later \(RiO5\)](#).

The purpose of this course is to train graduate students and young professionals who are interested in or will pursue research or management positions that require a basic understanding of marine radioactivity. The one day course will include lectures covering the following subjects: An introduction to Radionuclides, Natural, Anthropogenic, and Cosmogenic Radioisotopes and their General Applications in the Marine environment, and Radioecology. Specific lectures will delve more deeply into specific applications and include topics such as applications of radionuclides to sediment age dating, submarine groundwater discharge, and biological mediated carbon export. The 4 overview lectures are part of a series of ASLO e-lectures that will be available for future use and distribution.

Lecturers

- Dr. Ken Buesseler, Center for Marine and Environmental Radioactivity, Woods Hole Oceanographic Institution, USA
- Dr. Minhan Dai, State Key Laboratory of Marine Environmental Science, Xiamen University, China
- Dr. Claudia Benitez-Nelson, University of South Carolina, USA
- Dr. Sabine Charmasson, ISRN, Laboratory for Research on Transfers in the Environment, France
- Dr. Pere Masque, Edith Cowan University (Australia) and Universitat Autònoma de Barcelona (Catalonia, Spain)
- Dr. Willard S. Moore, University of South Carolina, USA
- Dr. John Smith, Bedford Institute of Oceanography, Dartmouth, NS, Canada

Program

Time	Content of lecture	Lecturer(s)
*Overview talk include 15 min Q+A, Specific lecture include 10 min Q+A		
8:30-9:45	Overview talk 1: Understanding the Basics of Radioactivity	Claudia Benitez-Nelson
9:45-11:00	Overview talk 2: Radioactivity in the Marine Environment: Uranium-Thorium Decay Series	Ken O. Buesseler
11:00-11:15	Tea break	
11:15-12:30	Overview talk 3: Radioactivity in the Marine Environment: Cosmogenic and Anthropogenic	Pere Masqué

Time	Content of lecture	Lecturer(s)
	Radionuclides	
12:30-14:00	Lunch break	
14:00-14:45	Specific lecture in marine radioactivity 3: Applications to submarine groundwater discharge studies	Willard S. Moore
14:45-15:30	Specific lecture in marine radioactivity: 2: Applications to biological pump studies	Minhan Dai
15:30-15:45	Tea break	
15:45-16:30	Specific lecture in marine radioactivity: 1: Applications of artificial and natural radionuclides in marine science	John Smith
16:30-17:45	Overview talk 4: Understanding the Basics of Marine Radioecology	Sabine Charmasson
17:45-18:00	Discussion	

How to apply?

Participants

The course is open to 25 students and early career scientists interested in radiochemistry-related fields. Please use the [Goldschmidt Registration](#) form to register for this workshop and for the Goldschmidt meeting. The workshop registration fee is set by the Goldschmidt Conference organizers and will be supported in large part by the Center for Marine and Environmental Radioactivity at WHOI. The fee will be paid as part of your meeting registration.

- Fees

Registration fee is € 40, which includes all course materials, coffee breaks.

Co-organizers:

Ken Buesseler, Center for Marine and Environmental Radioactivity, Woods Hole Oceanographic Institution, USA

Minhan Dai, State Key Laboratory of Marine Environmental Science, Xiamen University, China

Claudia Benitez-Nelson, University of South Carolina, USA

Contact us

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Sponsors

[SCOR 146 Working Group: Radioactivity in the Ocean, 5 decades later \(RiO5\).](#)

[Center for Marine and Environmental Radioactivity \(CMER\)](#)