

**CANADIAN OCEAN SCIENCE NEWSLETTER**

**LE BULLETIN CANADIEN DES SCIENCES DE L'OcéAN**

**Special Bulletin, 20 October 2014  
Bulletin spécial, le 20 octobre 2014**

**The 2014 CNC-SCOR Western Lecture Tour**

CNC-SCOR annually sponsors two speakers to do a tour of oceanographic centres. One speaker is drawn from Eastern Canada to talk to Western centres, the second is drawn from Western Canada and travels to the East.

The 2014 Western Lecture tour speaker is Dr. Markus Kienast who will talk at Western Centres between the 17<sup>th</sup> and 21<sup>st</sup> of November 2014. The schedule is below. Please try to attend the talk nearest you.

**Title:** *Acceleration of oceanic denitrification during global warming*

**Abstract:** The nitrogen cycle plays a central role in the biogeochemistry of the ocean and is intimately linked with global climate change on interannual to glacial-interglacial timescales. Nitrogen isotopes, in turn, provide us with a means of monitoring past changes in the marine nitrogen cycle from sedimentary records. This presentation will address two fundamental questions: Are surface ocean processes affecting nitrogen isotopes faithfully recorded in deep sea sediments? What is the whole-ocean nitrogen isotope signal during the last glacial–interglacial transition telling us about changes in marine N cycling during global warming?

**Schedule:**

City	Date	Location
Victoria	17 November, 15:00	U Victoria, Bob Wright Building: SCI A104
Vancouver	18 November, 16:00	UBC, Earth Science Building Room 2012
Burnaby	19 November, 13:30	Simon Fraser U, IRMACS Theatre, SFU Burnaby Campus
Winnipeg	20 November, 13:30	U Manitoba, Dr. Klaus Hochheim Memorial Theatre, 5 <sup>th</sup> floor Wallace bldg
Edmonton	21 November, 13:00	U Alberta, Tory 3-36

**Professor Markus Kienast** is a (marine) geologist and oceanographer, specialized in reading the biogeochemical record of past ocean and climate change preserved in the sedimentary record. Long-term goals of his research include: 1) to establish a thorough understanding of nitrogen isotope evidence for past changes in the oceanic nitrogen cycling and inventory, and 2) to understand more fully the importance of the tropical Pacific Ocean in past global climate change. Markus is a member of the Executive Committee of the Canadian Consortium for Ocean Drilling (CCOD), represents Canada at the IMPRESS program, the successor of the international IMAGES program, and is co-director of the NSERC-CREATE for Transatlantic Ocean System Science and Technology (TOSST) between Dalhousie and Kiel University/GEOMAR.



For more info on Dr. Kienast's research, please visit the following web sites:

[www.oceanbiogeochem-atdal.org](http://www.oceanbiogeochem-atdal.org)

[www.dal.ca/faculty/science/oceanography.html](http://www.dal.ca/faculty/science/oceanography.html)

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