



California State University
Northridge



The Department of Geological Sciences Presents:

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**Global Iron Cycling: Linking
Earth's crust, oceans, and food webs**

Tuesday, Nov. 8th, at 12:30 p.m. in LO1212

Please call (818) 677-3541 or email geology@csun.edu if you have any questions

Abstract:

In the ancient ocean, iron was plentiful - but in the modern ocean, despite being the 4th most abundant element in the Earth's crust, iron exists only at trace levels. Iron is an essential micronutrient that is necessary for growth; in many regions of the ocean, low iron levels limit phytoplankton growth, which has implications up the food web. This interdisciplinary talk will go through chemical oceanography, the biogeochemical cycling of iron, and how scandium might be a new tool to help us better understand iron cycling.