



PLEASE POST!

Centers for Ocean Sciences Education Excellence-West
COSEE-West, C-DEBI and the Cabrillo Marine Aquarium

present a FREE public lecture



Some Like It Hot ... And Toxic

Speaker:

Dr. Jan Amend, University of Southern California

Wednesday, November 30, 2011

6:30 - 7:30 pm: Public lecture and Q&A

7:30 - 8:45 pm: Educators' Session

Cabrillo Marine Aquarium

in the John M. Olguin Auditorium

3720 Stephen M. White Drive, San Pedro, CA 90731

Life emerged on Earth circa 3.5-4 billion years ago. Since then, microorganisms have co-evolved with Earth, altering the chemistry of the atmosphere, hydrosphere, and geosphere. Bacteria, and the more recently identified Archaea, inhabit some of the most inhospitable, extreme environments on our planet: hot springs, submarine thermal vents, acid mines, saturated salt ponds, arsenic-laden waters, and the deep subsurface. Why are we so interested in these 'extremophiles', what can they tell us about the limits of life, and how do they inform us on life's origin?

Jan Amend is a professor of microbial geochemistry in the Departments of Earth Sciences and Biological Sciences at USC. He is also the Associate Director of the newly funded National Science Foundation research center, **Center for Dark Energy Biosphere Investigations (C-DEBI)** focused on exploring the biosphere in the deep subsurface
<http://www.darkenergybiosphere.org/>

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**Map & Driving Directions:**

<http://www.cabrillomarineaquarium.org/visit-cma/directions-parking.asp>  
Bring your parking ticket to the lecture for validation

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Please register by November 25 by contacting UCLA COSEE-West
at cosee.west@gmail.com or 310-206-8247

Educator stipends and a light supper* is available to all educators who register in advance
K-12 teachers may get documentation for Professional Development hours upon request

*generously provided by a grant from Boeing to USC for COSEE-West
For information about the COSEE-West program, visit <http://www.usc.edu/org/cosee-west/>