

Who We Are

Executive Committee

Katrina Edwards, USC
North Pond Group Lead
James Cowen, UHawaii
Juan de Fuca Associate Lead
Steven D'Hondt, URI
South Pacific Gyre Group Lead
Andrew Fisher, UCSC
Juan de Fuca Group Lead
C. Geoff Wheat, UAF
North Pond Associate Lead

Administration (Based at USC)

Katrina Edwards, Director
Jan Amend, Associate Director
Ann Close, Managing Director
Linda Duguay, Research Coordinator
Matthew Janicak, Administrative Assistant
Cynthia Joseph,
Education and Diversity Director
Rosalynn Lee Sylvan,
Associate Managing Director

Education

Postdoctoral Program Committee
Jennifer Biddle, UDel
David Caron, USC
Undergraduate Summer Course Instructors
John Heidelberg, USC
Eric Webb, USC

Theme Team Leaders

Wiebke Ziebis, USC
Theme 1: Activity of the Deep Biosphere
Andreas Teske, UNC
Theme 2: Biogeography and Dispersal
Thomas McCollom, UColorado
Theme 3: Limits of Life
William Nelson, USC
Theme 4: Evolution and Survival

Be a part of C-DEBI

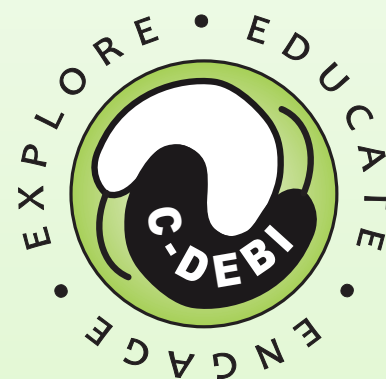


Our international membership
presently includes almost 500
members from 28 countries

C-DEBI is an open group –
connect with us via
our mailing list
or follow us on Facebook

Questions?

Contact us at
info@darkenergybiosphere.org



Center for Dark Energy Biosphere Investigations

Resolving the extent,
function, dynamics and
implications of the
subseafloor biosphere

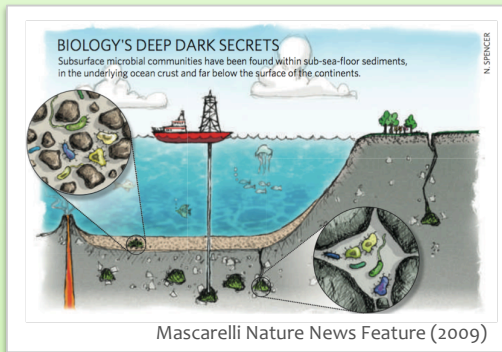
A National Science Foundation-funded
Science and Technology Center
With sponsorship by the
Gordon and Betty Moore Foundation
and Alfred P. Sloan Foundation

darkenergybiosphere.org

What is C-DEBI?

We are a multi-institutional distributed center establishing the intellectual, educational, technological, cyber-infrastructure, and collaborative framework needed for transformative experimental and exploratory research on the seafloor biosphere.

Our mission is to explore life beneath the seafloor and make transformative discoveries that advance science, benefit society, and inspire people of all ages and origins.



Mascarelli Nature News Feature (2009)

What is Dark Energy?

Biomass carbon in the deep biosphere may account for ~1/3 of the total biomass on Earth! Moreover, the deep biosphere on Earth exists entirely in the dark, fueled by processes one or more steps removed from the photosynthetic surface world.

C-DEBI Research

Our research findings have the potential to impact major current questions such as energy creation, climate change, and the very nature of evolution of life on Earth. To address these challenges, we focus and integrate across four broad **C-DEBI Research Themes**:

- *Activity in the deep seafloor biosphere*: function & rates of global biogeochemical processes
- *Extent of life*: biomes and the degree of connectivity (biogeography & dispersal)
- *Limits of life*: extremes and norms of carbon, energy, nutrient, temperature, pressure, pH
- *Evolution and survival*: adaptation, enrichment, and repair

Three new US-led IODP projects for deep seafloor biosphere research are poised for drilling before 2013, headed by our executive committee members and involving many of our science participants. C-DEBI will seize a unique opportunity to bundle these diverse projects, to accomplish an integrated, global scientific mission.



Pele's Pit trap (FEMO 2007)

C-DEBI Education & Outreach

Our goal is to create distinctive, targeted education programs at the K-12, undergraduate, graduate and postdoctoral levels in order to train and foster the next generation of deep seafloor biosphere researchers. This is first and foremost to ensure the robust continued development of this new field, and to arm the field with the brightest and most creative young minds that can take what has been built over the past decade and greatly expand it in this decade via C-DEBI.

Visit our website for more information on C-DEBI education and outreach opportunities for teachers, undergraduates, graduate students, postdoctorals and everyone else!



2009 School of Rock workshop participants