



AbGradCon 2007 & Origins of Water Workshop



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- Purpose

- Foster communication within astrobiology grad student and postdoc communities
- Early career practice speaking at conferences
- Build Astrobiology networking

- Organized by Grad students and Postdocs

- Previous Meetings

- 2004 Tucson, AZ
- 2005 San Diego, CA
- 2006 State College, PA (Cancelled)
- 2007 San Juan Puerto Rico

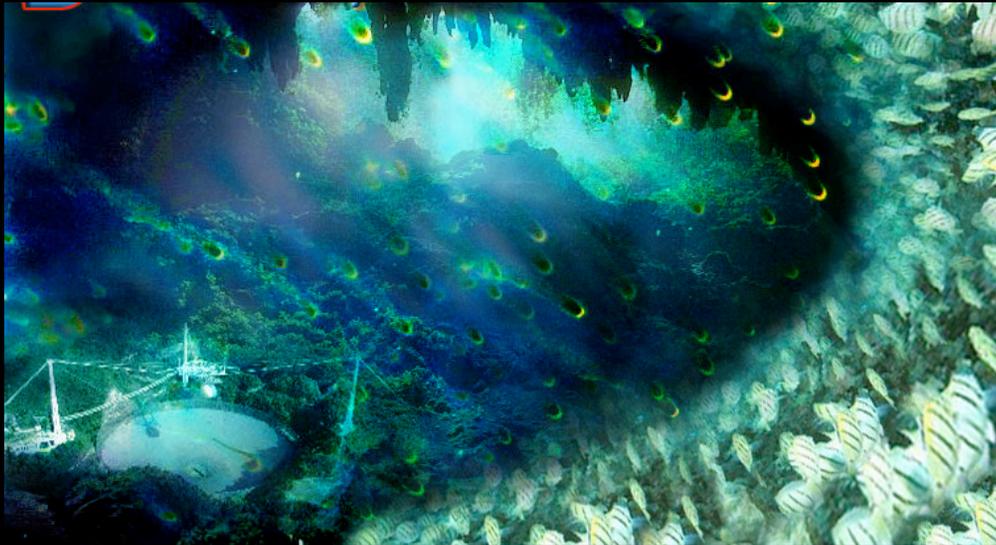
AbGradCon 2004 / 2005

- Jan 8-10, 2004
- Tucson, Arizona
- Sponsors: NAI, UAZ team, NOAO
- Program
 - 1/8 10 talks, hiking
 - 1/9 11 talks, mirror lab
 - 1/10 KPNO tour
- Aug 18-20, 2005
- Scripps Ocean. Inst.
- Sponsors: SOI, San Diego supercomputer Center
- Program
 - 8/18 14 talks
 - 8/19 4 talks, SOI tour, Posters, panel discussion
 - 8/20 5 talks

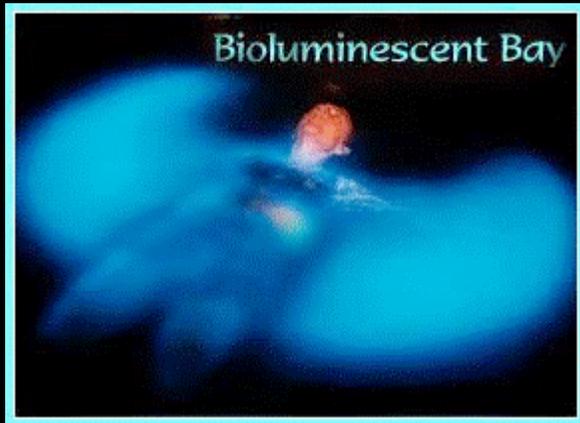
Bioastronomy

July 16-20, 2007

San Juan Puerto Rico



- **Pre-Meeting**
 - AAS Teaching workshop (July 13-15)
 - AbGradCon
- **Main Meeting:**
 - 250 participants
 - 20 Invited talks, 55 contributed oral, 112 poster
 - Space Agency Night
 - “Contact Event”
- Full day Teacher workshop (70 teachers)
- Arecibo / Camuy Caverns Tour
- Post Conference Tours: Salt Flats, El Yunque Rainforest

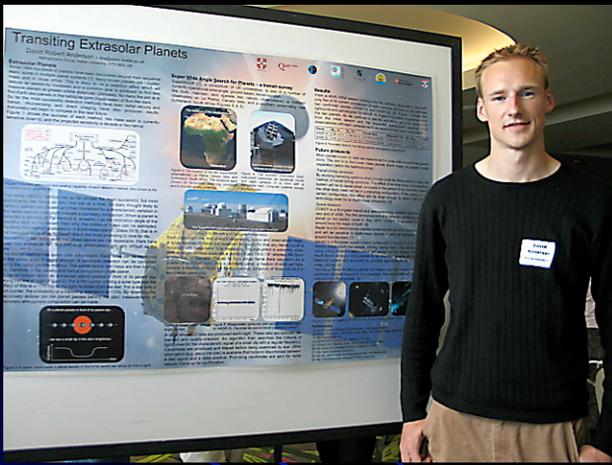


AbGradCon 2007

- Funding & Participants
 - NAI DDF proposal (written by A. Mandell, postdoc) ~ \$20K
 - Support / Infrastructure from the Bioastronomy 2007 meeting
 - Hotel logistics, contracts, room block
 - Eligible for Bioast Travel awards (NSF & NASA funding)
 - NAI Teams supported many
 - ~ 40 participants
- Icebreaker Program 7/13
 - group outing (bioluminescent bay)



AbGradCon 2007



- Program 7/14

- Session 1: Seeds of Habitability: From Dust to Planets (5 talks)
- Coffee & Posters
- Session 2: Understanding Habitability in Diverse planetary environments (5 talks)

- Program 7/15

- Session 3: Origin & Evolution of Life in Extreme Environments (5 talks)
- Panel Discussion: Realities and Practicalities for AB Grads/ Postdocs
- Astrobiology in Education & Public Outreach
- AbGrad Community Resources Working Gp
- Coffee & Poster Session
- Session 4: Searching for Life in the Solar System and Beyond (5 talks)



Origins of Water Workshop



Goal: Bring together a working group of top interdisciplinary researchers in interstellar and solar system astronomy, nebula chemistry, dynamics, deep earth water cycles, volatiles on early earth, aqueous alteration to identify where interdisciplinary approaches will yield new insight into understanding origin of terrestrial water.

Venue, Dates, Format



- Feb 27-Mar 1, 2008, 22 participants (50% NAI)
- Molokai Ranch, Molokai HI
 - Remote Location – no distractions, fosters discussion
 - Structured “free time” – star gazing, cultural activities
- Talks & Long Discussion Periods
- Written product



Program

K. Meech	Overview
E. Bergin	Solar Nebula Models
J. Keane	Deuteration in the solar nebula
E. Young	Oxygen Isotope Signatures in the Nebula – Implications for Water
K. Keil	Aqueous Alteration seen in meteorites
M. Drake	Nebular origin of H ₂ O by gas Adsorption
M. Mumma	Comet Composition – implications for dynamical mixing
K. Meech	Activity in Small Bodies, Evidence of Ice
D. Jewitt	Main Belt Comets, Water in KBOs
 Morbidelli	Terrestrial Planet Formation and LHB

Program

B. Marty	Evolution of Mantle & Atmosphere
D. Stevenson	Early Earth Degassing
J. Smyth	Hydration State of Earth's Mantle
R. Yokochi	Mantle convection & escape in Hadean
S. Mojzsis	Water crust interactions on Hadean Earth
J. Korenaga	Role of Water on Early Earth & Degassing
H. Genda	Nebular origin of water – impact origin
T. Owen	The late cometary veneer
N. Dauphas	Origin and evolution of terrestrial volatiles
M. Drake	Crossroads and Major unanswered questions