The University of California High-Performance AstroComputing Center (UC-HiPACC)
2012 Science/Engineering Journalism "Boot Camp"
on
COMPUTATIONAL ASTRONOMY: FROM PLANETS TO COSMOS
June 24-27, 2012

Preliminary Agenda (as of March 26, 2012)

Unless noted, every 60-minute session will consist of a 45-minute "mini-course" followed by 15 minutes of active Q&A and discussion; all speakers below are confirmed, but times, topics, and titles are subject to change

Sunday, June 24

Afternoon	Arrival at Mission Inn, Santa Cruz, CA
5:00-8:30 PM	Afternoon get-acquainted reception and early dinner hosted by UC-HiPACC director Joel R. Primack and his wife Nancy E. Abrams at their house

Monday, June 25

8:00 AM	Continental breakfast, UC Santa Cruz (location TBA)
8:30 – 8:45 AM -	Welcome; Introduction to the Computational Astronomy Journalism Boot Camp and to UC-HiPACC – Trudy E. Bell, Senior Writer, UC-HiPACC
8:45 – 9:15 AM -	Introduction: How and why computation is transforming astronomy - Joel R. Primack, Director, UC-HiPACC, UCSC
9:15 – 10:15 AM -	Supercomputing Hardware and Codes for Astrophysics – Michael Norman, Director, San Diego Supercomputer Center, UCSD
10:15 – 10:30 –	Coffee break
10:30 – 11:30 AM -	Instrumentation: The Secrets of Adaptive Optics – Claire E. Max, UCSC
11:30 – 12:30 PM -	"Probing Nature's Highest Energy Particle Accelerators" – Brenda Dingus, Los Alamos National Lab (PI, High Altitude Water Cerenkov detector)
12:30 – 2:00 PM –	Tour of on-campus University of California Observatory Instrument Laboratories; followed by picnic lunch (provided)
2:00 – 3:00 PM -	**"**Probing the Galactic Planetary Census: Methods for Discovering and Characterizing Exoplanets – Gregory P. Laughlin, UCSC (Professor, Astronomy and Astrophysics)
3:00 – 4:00 PM -	Explosive Astrophysics: Supernovae and Neutrinos – George M. Fuller, UCSD
4:00 – 4:30 PM -	Iced tea break and GROUP PHOTOGRAPH (weather permitting)
4:30 – 5:30 PM -	Galactic Astronomy and Galactic Cannibalism – James S. Bullock, UCI

5:30 – 6:30 PM - Break (long enough to allow time for a brisk walk around upper campus)

6:30 PM Reception and banquet on campus; keynote speaker: Sandra M. Faber, UCSC

Tuesday, June 26

8:00 AM Continental breakfast, UC Santa Cruz (location TBA)

8:30 – 8:45 AM - Announcement of logistics for the Wednesday 6/27 field trip

8:45 – 9:45 AM - "Filling the Cosmos with (Virtual) Stars" – Mark Krumholz, UCSC (Assistant Professor, Astronomy and Astrophysics)

9:45 – 10:00 AM Coffee break

10:00 – 11:00 AM - "How the Universe Evolved from Smooth to Lumpy: The Formation of Galaxies and Massive Black Holes" – Eliot Quataert, UCB (Thomas and Alison Schneider Chair in Physics; Director of the Theoretical Astrophysics Center)

11:00 – 12:00 PM - "Dark Matter and Dark Energy: Working with the Dark Side to Discover the Ultimate Fate of the Universe" – Kim Griest, UCSD (Professor of Physics)

12:00 – 1:00 PM - Lunch (provided)

1:00 – 2:00 PM - "The Cosmic Dawn: Illuminating a Dark Universe" – Steven Furlanetto, UCLA (Associate Professor of Physics and Astronomy)

2:00 – 3:00 PM - The Nature of Mysterious Dark Matter – Manoj Kaplinghat, UCI

3:00 – 3:30 PM - Iced tea break (and group photograph if weather did not cooperate on Monday)

3:30 – 4:30 PM - A Concise Tour of Astronomical Simulations and Visualizations – Joel R. Primack, UCSC

4:30 – 6:00 PM - "News from Deep Space! A Roundtable Discussion on Covering Astronomy" – Journalism Roundtable Discussion led by Robert Irion, UCSC (Director, Science Communication Program)

6:00 – 6:15 PM - Review of logistics for Weds. field trips; distribute and fill out evaluation forms

Wednesday, June 27 – Field trips [still working out specific logistics]

Morning NASA Ames, Moffett Field, Mountain View – behind-the-scenes with the Pleiades supercomputer, Hyperwall visualization facilities

Lunchtime Lunch at the California Academy of Sciences, San Francisco

Afternoon	California Academy of Sciences – behind the scenes of digital visualization at Morrison Planetarium, including optional planetarium show on earthquakes
Late afternoon	Private presentation of Morrison Planetarium shows "Fragile Planet" and "LIFE: A Cosmic Story"
7:00 PM	Dinner on your own in San Francisco
DEPARTURE	(participants make their own hotel and/or departure arrangements)