National Aeronautics and Space Administration
Jet Propulsion Laboratory
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NASA Exoplanet Science Institute

Sagan Summer Workshop Wrap Up

Dr. Dawn Gelino

29 July 2011

NASA Exoplanet Science Institute

[Survey Time]

Workshop Statistics

- First Sagan/Michelson Summer Workshop to include computer-intensive Hands-on Sessions
- 70 attendees
  - From 11 countries
  - 20 contributed electronic posters
  - 24 gave research pops
  - ~50% participated in group projects
- 26 talks and 5 hands-on sessions given by 19 speakers, including leaders in the field

What Have We Covered?

- Exploring Exoplanets with Microlensing
  - History and evolution of microlensing
  - Mission and survey prospects
  - Event follow-up
  - Microlensing theory and basics
  - How to extract parameters from microlensing data
  - How to model microlensing data
  - Crowded field data analysis
  - Types of parallax
  - Photometry and Astrometry; Adaptive optics
  - Higher order effects
  - Massive Parallel Computing
  - Hands-on activities with real microlensing data!

- This is a very exciting time for the Microlensing community with the results of the 2010 Astro Decadal Survey and the potential for WFIRST

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Huntington Library and Gardens Tour

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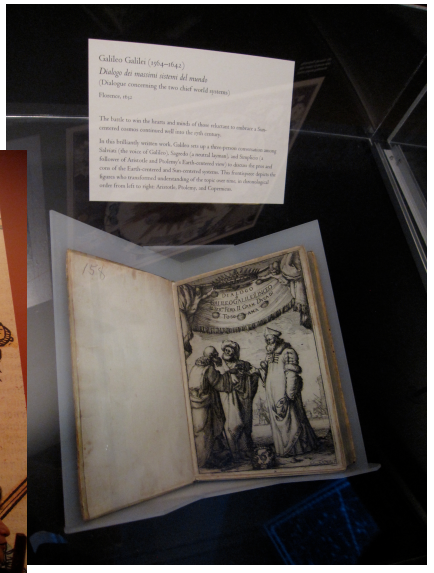

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The Banquet – Delicious!

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Many Thanks…

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…to the SOC for a great agenda and dynamic speakers…

- Dave Bennett (Univ. of Notre Dame)
- Ian Bond (Massey University)
- Subo Dong (IAS)
- Scott Gaudi (Ohio State University)
- Stephen Kane (NExScI)
- Rachel Street (LCOGT)
- Takahiro Sumi (Nagoya Univ.)

…to those behind the scenes…

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- **Ellen O'Leary**
- **Carolyn Brinkworth**
- Dawn Gelino
- Kathy Golden
- Irene Loera
- Helga Mycroft
- Renee Newman
- Dennis Whitman

…to our Speakers…

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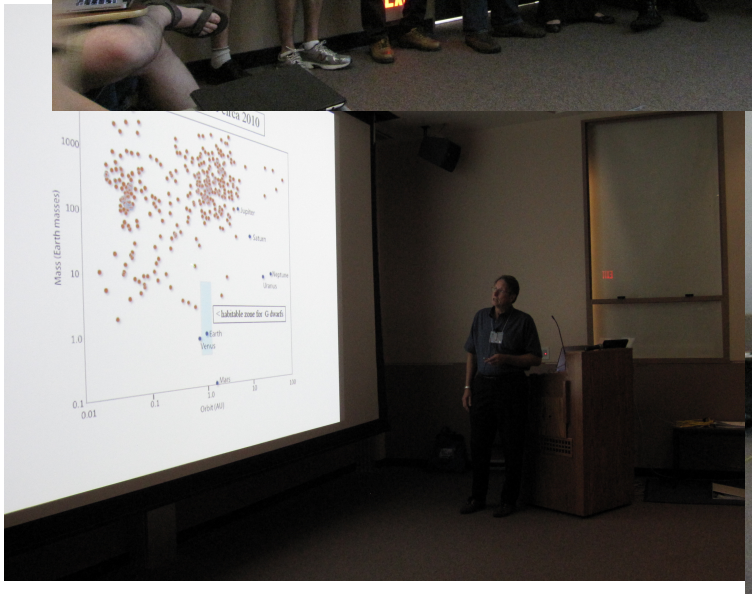
- All updated talks will be posted on-line



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…and to our Hands-on Session Contributors!

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The preparation and computer support in getting ready for the hands-on sessions has been extensive and would not have been possible with the dedicated help from:

- ✧ Subo Dong (IAS)
- ✧ Scott Gaudi (Ohio State)
- ✧ Jan Skowron (Ohio State)
- ✧ Przemek Wozniak (LANL)

- ✧ Matthew Freeman (University Auckland)
- ✧ Joe Ling (Massey University)
- ✧ Daisuke Suzuki (Osaka University)
- ✧ Jennifer Yee (Ohio State)

- ✧ Dennis Wittman (IPAC)
- ✧ John Good (IPAC)
- ✧ Alex Hui (IPAC)
- ✧ Jonathan Kakumasu (IPAC)
- ✧ Roger Murray (Caltech)
- ✧ Winston Yang (IPAC)

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Sagan Fellowships

Deadline: November 3, 2011

The NASA Exoplanet Science Institute announces the 2012 Carl Sagan Postdoctoral Fellowship Program. These fellowships support recent postdoctoral scientists to conduct independent research broadly related to the goals of the NASA Exoplanet Exploration program. These goals include the discovery and characterization of planetary systems and Earth-like planets around nearby stars. The proposed research may be theoretical, observational, or instrumental.

The Sagan Postdoctoral Fellowship program is open to applicants of any nationality to conduct research at a U.S. institution. Applicants should have earned (or will have earned) their doctoral degrees in astronomy, physics or related disciplines after January 1, 2009. Sagan Postdoctoral Fellowships are awarded for up to 3 years.

Possible Research Areas

Planet Detection
Planet Formation
Interferometry
Comparative Exoplanetology
Planetary Transits
Coronography
Astrometry

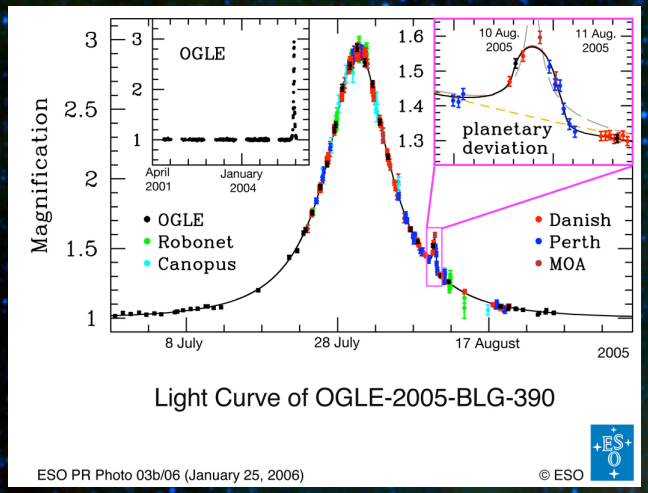
For More Information

Please see the detailed announcement of opportunity and application instructions at the NExScI web page: http://nexsci.caltech.edu/sagan/fellowship.shtml or email saganfellowship@ipac.caltech.edu. The deadline for applications, institutional letter(s) of endorsement, and letters of reference is Thursday, November 3, 2011.

Science with a Wide-field Infrared Telescope in Space

and

The 16th International Conference on Gravitational Microlensing



February 13-17, 2011
Hilton Hotel, Pasadena, CA

Check the IPAC or NExScI website for more information soon!
http://ipac.caltech.edu

This two-part conference will begin with two and a half days (Feb. 13-15) focusing on the scientific potential of observations with a wide-field infrared survey telescope In space to probe the nature of dark energy, conduct searches for exoplanets using gravitational microlensing, and as a general facility for wide-area surveys. The second half of the week (Feb. 15-17) will be the 16th in a series of conferences to discuss the latest results from microlensing searches and the perspectives opened by new methodologies and observational and computational facilities.

Travel Reimbursement

- Travel Reports are to be mailed in *AFTER* your return home:

  ATTN: 'Your Travel Contact'
  Caltech –IPAC, MS 100-22
  770 S. Wilson Ave.
  Pasadena, CA 91125

- Travel Reports **must** include:
  - Completed reimbursement form (included in guidelines)
  - Original receipts (no meal receipts required)
  - Working FAX number

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The Class of 2011!

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We hope to see you at next year's workshop!