

# Making the most of the Great Observatories

**MAKING THE MOST OF THE GREAT OBSERVATORIES**

A workshop for the astronomical community, to address the scientific priorities for NASA's Great Observatories in years to come

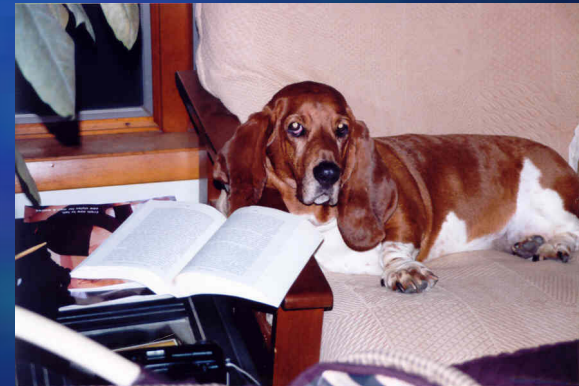


**SCIENCE TOPICS:**

- Planets and planetary systems  
- Drake Remling, GSFC
- Stars: the main-sequence and beyond  
- Jim Liebert, Arizona
- Nearby galaxies and stellar populations  
- Bob Kenney, IAA, GSA
- Galaxy formation and the high redshift universe  
- Michael Strauss, Princeton
- Star formation and the ISM  
- G. Chabrier, Wisconsin
- Galaxy clusters and the IGM  
- Megan Donahue, Michigan State
- AGN and QSOs  
- Neil Brandt, Penn State
- Cosmology  
- David Weinberg, Ohio State
- Workshop Summary and a View to the Future  
- Richard Ellis, Caltech and Meg Drey, Yale

**May 22-24, 2006**  
in Pasadena, CA at the Hilton Hotel

Jointly sponsored by the Spitzer Science Center, STScI, and the Chandra X-ray Center  
For questions, contact: [greatobs@ssc.stsci.edu](mailto:greatobs@ssc.stsci.edu)  
<http://ssc.spitzer.caltech.edu/mjgs/greatobs>



# Workshop Origin & Goals

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## Origin:

1. Limited response to joint HST/Spitzer proposal option
2. STUC encouragement to examine future science priorities for HST

## Workshop Goals:

1. Encourage multi-wavelength, multi-observatory proposals
2. Identify key science programs that should be tackled in the near future, either as high priority science in their own right or as precursors to future Great Observatory (both ground & space) programs

# Logistics

Organised jointly with Spitzer and Chandra Science Centers  
To be held in the Pasadena Hilton from May 22 to May 24  
Workshop limited to less than ~110 participants

see <http://ssc.spitzer.caltech.edu/mtgs/greatobs/>

## Science Organising Committee:

I. N. Reid (chair), Lisa Storrie-Lombardi (SSC), Paul Green (CXO), Martin Elvis (CfA), Julia Lee (CfA), Pat McCarthy (OCIW), Leisa Townsley (PSU), Mike Werner (JPL), Brad Whitmore (STScI)

## Local Organising Committee:

Chaired by Lisa Storrie-Lombardi



# Program

**Overall structure:** review talks, discussion sessions & poster papers  
no contributed talks

## Monday & Tuesday:

mornings devoted to 4 review talks plus general discussion  
afternoons to splinter discussion sessions, mirroring each review topic  
1-minute poster talks on Monday late afternoon

Panel sessions on future ground-based observatories (Tuesday evening);  
current and future space observatories (Wednesday morning)

## Informational handouts:

1. Large observing programs on GOs
2. Opportunities for joint-GO programs
3. Characteristics of current & future space observatories
4. Characteristics of future ground-based observatories

# Program: reviews & discussion sessions

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## Review talks by:

Planets & planetary systems: Drake Deming

Stars: Jim Liebert

Nearby galaxies and stellar populations: Rob Kennicutt

Galaxy formation: Michael Strauss

Large scale structure & cosmology: David Weinberg

AGNs & QSOs: Niel Brandt

Star formation & the ISM: Ed Churchwell

Galaxy clusters: Megan Donahue

Reviews without portfolio: Richard Ellis & Meg Urry

# Program: panel sessions

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## **Contributions from:**

Jeremy Mould: optical ground-based observatories

Al Wooten: radio ground-based observatories

Belinda Wilkes: Chandra

Harry Ferguson: HST

Lisa Storrie-Lombardi: Spitzer

Ann Hornschemeier: Con-X

Jon Gardner: JWST

Bill Latter: Herschel

The view from HQ: Jeff Hayes



# Products

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Each review speaker and each discussion session will be asked to provide a list of the 3 most important scientific topics for within the appropriate area.

We will collect the separate results and make a collated list available *via* each GO web site.

If appropriate, we will consider whether modifications are required in current practices and/or policies to accommodate high priority science objectives identified by the workshop participants.

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### Stars: the main-sequence and beyond

- *Jim Liebert, Arizona*

### Nearby galaxies and stellar populations

- *Rob Kennicutt, IoA/UofA*

### Galaxy formation and the high redshift universe

- *Michael Strauss, Princeton*

### Star formation and the ISM

- *Ed Churchwell, Wisconsin*

### Galaxy clusters and the IGM

- *Megan Donahue, Michigan State*

### AGN and QSOs

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