

Astronomy and Physics Directorate

Larry Simmons
Director

June 13, 2002

Astronomy & Physics Directorate Organizational Chart

700
 Larry Simmons, Director
 Vacant, Deputy Director
 Chas Beichman, Chief Scientist
 Rich Capps, Chief Technologist
 Pat Archibald, Staff Assistant

770
Research Staff
 Fred Vescelus
 Virendra Sarohia

780
Business Operations Office
 Charlie Hicks

701
SIRTF
 Dave Gallagher
 Bill Irace (DM)
 Mike Werner (PS)(AD)(3231)

702
StarLight
 Gary Blackwood (AM)

703
SIM
 Jim Marr
 Brett Watterson (DM)
 Mike Shao (PS)(302)

704
GALEX
 Jim Fanson
 Chris Martin (PI)

705
Voyager & Ulysses
 Ed Massey
 Ed Stone(Voyager)(PS)
 Ed Smith(Ulysses)(PS)

706
VLBI
 Joel Smith
 Bob Preston(VLBI)(PS)

710
Origins & Astrophysics Formulation Office
 Mike Devirian
 Chas Beichman (AD)(CS)
 Rich Capps (TT)

720
Astronomy & Fundamental Physics Experiments Office
 Fred O'Callaghan
 John Wellman (DM)
 Ulf Israelsson (PS)

790
Astrophysics Science Centers
 IPAC: George Helou
 SSC: Tom Soifer
 ISC Annela Sargent

711
Origins & Astrophysics R & A
 Jim Ling (AD)(3231)

712
Keck Interferometer Project
 Jim Kelley

713
TPF Pre-Project
 Dan Coulter

714
LISA Pre-Project
 Dan Coulter (AD)

715
NGST Support
 Rich Capps

716
Advanced Telescopes and Technology Office
 B. Martin Levine (AD)(302)

717
Sun-Earth Connections
 Neil Murphy (AD)(3239)
 Paulett Liewer (CS)(3239)

718
STEP Project
 Guy Man
 John D. Anderson (PS)(331)

721
Formulation & Pre-Project
 vacant

722
Herschel/Planck Projects
 Gary Parks
 Ben Parvin (DM)
 Hal Yorke (Herschel) (PS)(3231)
 Charles Lawrence (Planck)(PS)(3231)

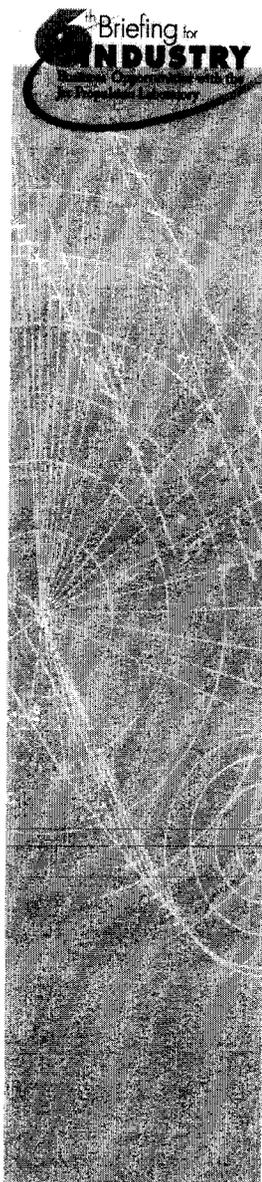
723
LTMPE Project
 John Pensinger
 Feng-Chuan Liu (DM)
 Melora Larson (PS)(354)
 John Dick (PS)(335)

724
LCAP Project
 David Seidel
 Bill Klipstein (PARCS)(PS)(AD)(335)
 John Prestage (RACE)(PS)(AD)(335)

725
Mid-Infrared Instrument Project
 Avi Kamik (AM)
 Eugene Serabyn (PS) (3231)

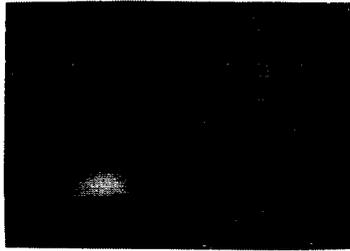
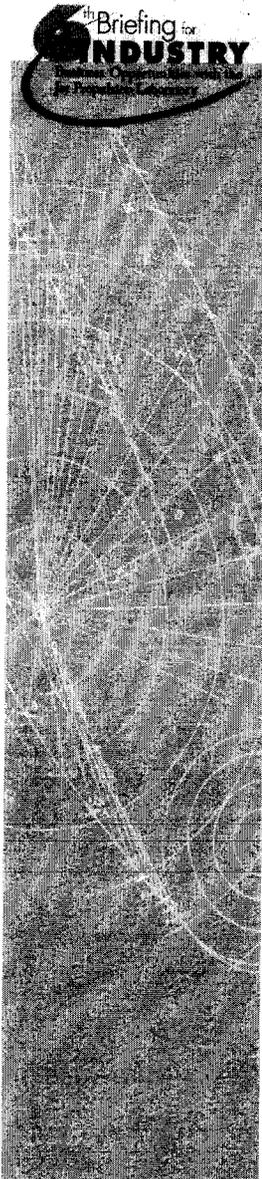
726
DRS Project
 Guy Man
 Bill Folkner (PI) (335)

AM = Acting Manager
 AD = Additional Duty
 CS = Chief Scientist
 DM = Deputy Manager
 PI = Principal Investigator
 PS = Project Scientist
 TT = Theme Technologist
 (#) = Home Organization



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Major Projects (Page 1 of 4)



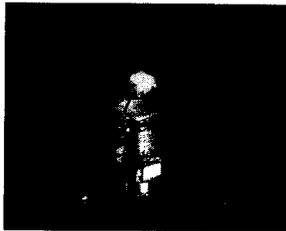
Disturbance Reduction System (DRS)*

- DRS is a New Millennium ST-7 technology demonstration of precision spacecraft control.
- Launch is planned for 2006



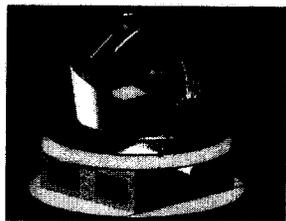
Galaxy Evolution Explorer (GALEX)

- Earth orbiting ultraviolet telescope to measure history of star formation.
- Launch planned for December, 2002.



HERSCHEL

- Sub-millimeter observatory to determine how the structure of the Universe emerged from the big bang. Instrument contribution to ESA mission.
- Launch mid 2007.



PLANCK

- Millimeter/Sub-millimeter ESA mission studying formation of Universe. Instrument contribution.
- Launch in mid 2007.

** Indicates potential significant contracting opportunities*

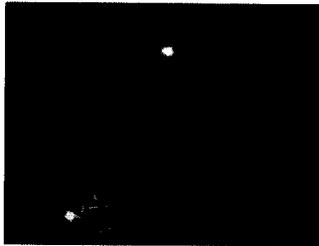
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Major Projects (Page 2 of 4)



Laser Cooling and Atomic Physics (LCAP)

- Laser cooling and Rubidium clock microgravity experiment for Space Station.
- Laser cooling launch 2005. Rubidium clock launch 2008.



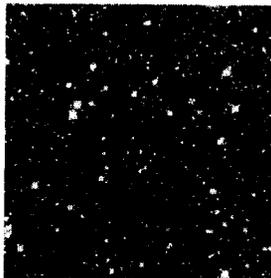
Laser Interferometer Space Antenna (LISA)*

- Three spacecraft constellation for the detection of gravity waves. A NASA/ESA effort.
- In formulation. Development start planned for 2005, with launch in 2008.



Low Temperature Microgravity Physics Facility (LTMPF)

- Space Station microgravity facility.
- Development phase underway. Ready for use 2005.



Mid-Infrared Instrument (MIRI) for Next Generation Space Telescope (NGST)*

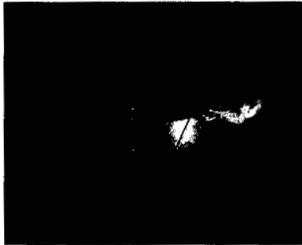
- Facility infrared camera in the 5-27 micrometer range.
- Phase A study initiated. Launch scheduled 2010.

* Indicates potential significant contracting opportunities

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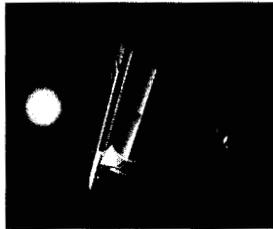
Major Projects (3 of 4)

6th Briefing for
INDUSTRY
Special Opportunities with the
UK Space Agency



Space
Interferometry
Mission
(SIM)

- Earth orbiting optical interferometer to determine accurately distances to stars and probe these for earth sized planets.
- In formulation phase. Launch planned for 2009.



Space
Infrared
Telescope
Facility
(SIRTF)

- Infrared telescope to study the early universe, young galaxies, and forming stars.
- Launch planned for January, 2003.



Terrestrial
Planet Finder
(TPF)*

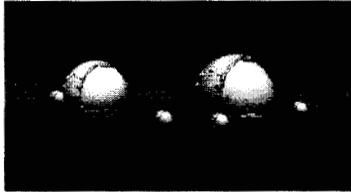
- Detection and characterization of Earth-like planets around as many as 150 stars up to 45 light-years away.
- In formulation until 2006. Launch anticipated in 2012-2015.

** Indicates potential significant contracting opportunities*

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Major Projects (4 of 4)

6th Briefing for
INDUSTRY
National Space Centre
for People's Laboratory



Keck
Interferometer *

- Two 10 meter plus 4 1.8 meter telescopes for direct detection of brown dwarfs and warm Jupiters plus study of zodiacal clouds.
- Array first light 2004-2005.



StarLight

- Space interferometry technology development program in support of Terrestrial Planet Finder mission.
- Testbed development in progress.

** Indicates potential significant contracting opportunities*