

“Seeking Signs of Life”

A Symposium Celebrating 50 Years of Exobiology and Astrobiology at NASA

Thursday, October 14, 2010

8 am-5 pm

Lockheed Martin Global Vision Center

Arlington, VA 22202

Sponsored by NASA and Lockheed Martin

This event is free and open to the public

RSVP (required) by COB EDT Oct. 7 to exosymposium@gmail.com

Non-US Citizens provide nationality, along with passport number/expiration date.

For more information, see:

<http://astrobiology.nasa.gov>

Or contact: libillin@gwu.edu

In 1959, NASA funded its first exobiology investigation, a life-detection experiment for Viking mission to Mars. In 1960, the agency established an exobiology program, whose early managers adopted an approach to advancing this field of study by funding forward-thinking, boundary-bending, multidisciplinary research projects that other funding sources tended to judge as too risky. NASA's Viking mission included three exobiology experiments designed to look for evidence of life on Mars. By the 1980s, NASA expanded its exobiology program to encompass studies of evolutionary biology. In the 1990s, NASA again expanded the breadth and depth of this program, broadening the boundaries of “exobiology” to establish “astrobiology” as a program encompassing studies of chemical evolution in interstellar space, the formation and evolution of planets, and the natural history of Earth in addition to exobiology and evolutionary biology. Today NASA's Astrobiology Program addresses three fundamental questions: How does life begin and evolve? Is there life beyond Earth and, if so, how can we detect it? What is the future of life on Earth and in the universe? In striving to answer these questions and improve understanding of biological, planetary and cosmic phenomena and relationships among them, experts in a range of relevant disciplines are participating in astrobiology research and helping to advance the enterprise of space exploration.

PROGRAM

8:00 Registration

8:30 Tours of Global Vision Center

9-10 am:

Welcome by NASA and Lockheed Martin officials

Opening keynote address – *“Exobiology in the Beginning”*

James E. Lovelock, University of Oxford, and

Lynn Margulis, University of Massachusetts-Amherst

10-11 am:

Panel 1, *“The Origins and Evolution of Exobiology and Astrobiology at NASA”*

Speakers: **Steven J. Dick**, NASA Historian (ret.); **Baruch S. Blumberg**, Fox Chase Cancer Center; **Noel**

Hinners, Lockheed Martin (ret.)

Moderator: **Roger Launius**, Dept. of Space History, National Air and Space Museum

11 am-noon:

Panel 2, *“Understanding the Origin, Evolution, and Distribution of Life in the Universe”*

Speakers: **John B. Corliss**, Dept. of Environmental Sciences and Policy, Central European University;

Martin Brasier, Dept. of Earth Sciences, University of Oxford; **Pamela G. Conrad**, Planetary Environments Lab, NASA Goddard Space Flight Center

Moderator: **Lynn J. Rothschild**, NASA Ames Research Center

Noon-1:30 pm:

Luncheon Keynote Address: *“Astrobiology Institute: Founding Vision and Reflections”*

The Honorable Daniel S. Goldin, NASA Administrator 1992 -2001, and

Chairman, President & CEO, The Intellisis Corporation

1:30-2:30 pm:

Panel 3, *“Who Are We? Where Are We Going? Are We Alone? Astrobiology in Culture”*

Speakers: **Marc Kaufman**, Science Writer, The Washington Post; **Constance Bertka**, Geophysical Laboratory, Carnegie Institution; **David Grinspoon**, Curator of Astrobiology, Denver Museum of Nature and Science

Moderator: **Linda Billings**, School of Media and Public Affairs, George Washington University

2:30 -3:30 pm:

Panel 4, *“Homing in on ET Life: Where, and How, To Look”*

Speakers: **Daniel P. Glavin**, Planetary Environments Lab, NASA Goddard Space Flight Center; **Victoria**

Meadows, Virtual Planetary Laboratory, Dept. of Astronomy, U. of Washington; **Steven A. Benner**, Foundation for Applied Molecular Evolution

Moderator: **Michael A. Meyer**, Mars Exploration Program, NASA HQ

3:30-4:30 pm: Closing keynote address – *“The Next 50 Years”*

Steve Squyres, Dept. of Astronomy, Cornell University

5:00 pm: Adjourn