

50 → YEARS → IN → SPACE

International Aerospace Conference Celebrating Fifty Years of Space Technology California Institute of Technology – Pasadena, California

September 19 - 21, 2007

SPAG		September 19 – 21, 2007
CALIFORNIA INSTITUTE OF TECHNOLOGY GRADUCE ASSOCIATION LABORATORY NORTHROP GRUMMAN JET PROPULSION LABORATORY	=	Conference Chairs: Jean-Lou Chameau, President, Caltech; Alexis Livanos, President, NGST; Charles Elachi, Director, JPA
Wednesday, 9/19/2007 Athenaeum, Caltech	6:00 pm	Welcome Reception Hosts: Ares Rosakis – Director, GALCIT, Theodore von Kármán Professor of Aeronautics, Caltech Dwight Streit – Vice President, Northrop Grumman Space Technology
Thursday, 9/20/2007	7:30 am	Registration and Continental Breakfast (Courtyards surrounding Beckman Auditorium)
Beckman Auditorium, Caltech	8:30 am	Introduction and Welcome Jean-Lou Chameau – President, California Institute of Technology Keynote Speaker: Ronald D. Sugar – Chairman, Northrop Grumman Corporation
	9:00 am	The Story of Space Exploration Session Chair: Paul Dimotakis – Chief Technologist, JPL; Northrop Professor of Aeronautics, Caltech Harrison "Jack" Schmitt – Astronaut, Former U.S. Senator Ed Stone – Director Emeritus, Jet Propulsion Laboratory; David Morrisroe Professor of Physics, Caltech
	10:15 am 10:45 am	Gentry Lee – Chief Engineer for the Planetary Flight Systems Directorate, Jet Propulsion Laboratory Break and Model Exhibit Panel Discussion: Space and the Environment, Sensible Space Investment Panel Introduction and Welcome: Charles Elachi – Director, Jet Propulsion Laboratory Moderator: Miles O'Brien – Chief Technology and Environment Correspondent, CNN Panelists: William F. Ballhaus, Jr. – President and CEO, Aerospace Corporation Frank Fernandez – Director Emeritus, Defense Advanced Research Projects Agency (DARPA) Abdul Kalam – 12 th President of India, Distinguished Professor, Indian Institute of Technology Charles Kennel – Professor, and Director Emeritus, Scripps Institution of Oceanography, UC San Diego Burt Rutan – Founder, President, and CEO, Scaled Composites, LLC Andrea Seastrand – Executive Director, California Space Authority, Former U.S. Congresswoman
Beckman Auditorium environs	12:30 pm	Lunch and Model Exhibition (Surrounding courtyards and Beckman West Lawn)
	1:45 pm	The Future of Space Exploration I Session Chair: TBA Michael Griffin – Administrator, NASA Jean-Jacques Dordain – Director, General European Space Agency Yannick d'Escatha – President, Centre National d'Études Spatiales Abdul Kalam – 12 th President of India, Distinguished Professor, Indian Institute of Technology
	3:10 pm 3:40 pm	Break and Model Exhibit The Future of Space Exploration II Session Chair: Tom Romesser – Vice President, Northrop Grumman Space Technology Ronald Sega – Under Secretary, United States Air Force; Astronaut Masato Nakamura – Executive Director, Institute of Space & Astronautical Science (ISAS /JAXA) France Córdova – President, Purdue University Ares Rosakis – Director, GALCIT, Theodore von Kármán Professor of Aeronautics, Caltech
	5:05 pm	Break
Ritz-Carlton Hotel, Pasadena	6:30 pm	Reception and Conference Banquet Host: Jean-Lou Chameau – President, California Institute of Technology Keynote Speaker: John C. Mather – 2006 Nobel Laureate in Physics; James Webb Space Telescope Senior Project Scientist, NASA Goddard Space Flight Center
Friday, 9/21/2007 Beckman Auditorium, Caltech	7:30 am	Continental Breakfast
	8:30 am	Special Session A Tribute to Simon Ramo: Alexis Livanos – President, Northrop Grumman Space Technology
	9:00 am	The Future of Space Exploration: Industry Perspective Session Chair: Robert S. Dickman – Executive Director, American Institute of Aeronautics and Astronautics Elon Musk – CEO, SpaceX David Thompson – Chairman and CEO, Orbital Sciences Corporation Joanne Maguire – Executive Vice President, Space Systems, Lockheed Martin Corporation David Whelan – Corporate Vice President, Boeing Corporation
	10:25 am 10:55 am	Break The Future of Space Exploration: Academic and Scientific Perspective Session Chair: Eugene Tattini – Deputy Director, Jet Propulsion Laboratory Berrien Moore III – Director, Institute for the Study of Earth, Oceans, and Space, University of New Hampshire Jonathan Lunine – Professor of Planetary Sciences and Physics, University of Arizona Michael Werner – Project Scientist, Jet Propulsion Laboratory

Closing Keynote Speaker: Neil deGrasse Tyson – Director, Hayden Planetarium

12:30 pm

Close of Conference