



FY 2014 Report on NASA Large Conferences

January 2015

FY 2014 Report on NASA Sponsored Large Conferences

Overview: In accordance with Office of Management and Budget (OMB) Memorandum M-12-12, Section 2 – Conferences, the National Aeronautics and Space Administration (NASA) is providing this report on conferences. This report provides a summary of conference activities by NASA in Fiscal Year (FY) 2014. It includes a brief overview of some of the value roles that conferences play, such as in key dissemination and exchange of cutting edge scientific and technological knowledge.

The Space Act of 1958 requires NASA to “provide for the widest practicable and appropriate dissemination of information concerning its activities and the results thereof.” Conferences provide an important vehicle for accomplishing this mandate. NASA scientists, engineers, and leaders present scientific and technical papers and participate in interchanges on leading-edge research and technology with peers in the Federal Government, academia, the science community, the aeronautics and aerospace industries, and international partners at conferences. NASA attended and sponsored conferences address a broad and diverse range of scientific and engineering challenges faced in carrying out its missions, including Earth science research, advanced aeronautics, and the cutting-edge technologies needed for both current and planned robotic and human space flight programs.

In addition to facilitating the dissemination and advancement of scientific research, conferences also serve as a cost-effective way for NASA to carry out other mission-related purposes, such as educational outreach and program development, planning, and information gathering. For example, conferences on program management provide opportunities for examination of current trends in aerospace project and engineering management; offering forums for the exchange and dissemination of best practices, new ideas, and training for managers across NASA to help the Agency cost-effectively meet the toughest challenges in space exploration today.

FY 2014 Conferences: Net conference expenses for the 2014 fiscal year, for conferences held by NASA and which cost the Agency more than \$20,000 and all conference events costing the Agency more than \$100,000, totaled \$9.1 million. NASA participated in 33 large conferences in FY 2014 for which it spent more than \$100,000. Detailed information on the events approved under the justification and approval process under OMB M-12-12 follows.

Changes in FY 2014: FY 2014 saw numerous changes in the conference review and approval process. At the start of the fiscal year, NASA required NASA sponsored conferences greater than \$20,000 to be centrally reviewed and approved by the Agency Chief Financial Officer (CFO) and those over \$100,000 by NASA’s Deputy Administrator. Midway through the fiscal year, in light of the FY14 and FY15 budget agreement, NASA suspended CFO approval for events costing the Agency less than \$75,000.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Astronomical Society (AAS) Division for Planetary Sciences (DPS)	Denver, CO	10/06/2013	10/11/2013	\$109,726	49
<p>Web site Link: http://dps.aas.org</p> <p>Purpose: DPS is the world's largest professional organization dedicated to solar system exploration and is the highlight conference for presenting solar system research. This research includes missions such as Messenger, Curiosity, Cassini, Kepler and research and analysis for general planetary missions.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Society for Gravitational and Space Research (ASGSR)	Orlando, FL	11/3/2013	11/8/2013	\$215,953	107
<p>Web site Link: https://asgsr.org</p> <p>Purpose: The ASGSR's goal is to explore the response of biology and physical systems to novel environments, and to understand biological and physical phenomena associated with changes in gravitational signals - especially those associated with spaceflight and analogues for extra-terrestrial environments.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Supercomputing 2013	Denver, CO	11/17/2013	11/22/2013	\$217,031	42
<p>Web site Link: http://sc13.supercomputing.org/</p> <p>Purpose: The Supercomputing (SC13) conference serves as the crossroads for the entire High-Performance Computing community, including users; program managers; colleagues; vendors; government; private industry and academia. SC13 provides unparalleled cooperation, unequalled collaboration, and unmatched exposure. Spotlighting the most advanced scientific and technical applications in the world, SC13 brings together the international supercomputing community for an exceptional program of technical papers, tutorials and timely research posters. The SC13 Exhibition Hall featured exhibits of the latest and greatest technologies from industry, academia and government research organizations.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Geophysical Union (AGU)	San Francisco, CA	12/9/2013	12/13/2013	\$ 1,735,459	645
Web site Link: http://fallmeeting.agu.org/2013					
Purpose: The AGU conference is the largest worldwide meeting in the geophysical sciences. It is the premier event for scientists and engineers from Earth Science, Heliophysics and Planetary Science. AGU is the best opportunity for NASA scientists and engineers to interact with their respective communities, and the interactions often grow into proposals for NASA research announcements.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
223 rd American Astronomical Society (AAS)	National Harbor, MD	1/5/2014	1/9/2014	\$255,440	130
Web site Link: http://aas.org/meetings/223rd-aas-meeting-washington-dc					
Purpose: The primary objective of the AAS is to promote the advancement of astronomy and closely related branches of science, while at the same time enhancing astronomy education and providing a political voice for its members through lobbying and grassroots activities.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Institute of Aeronautics (AIAA) Science and Technology Forum and Exposition (SciTech)	National Harbor, MD	1/13/2014	1/17/2014	\$ 523,888	247
Web site Link: http://www.aiaa.org/scitech2014/					
Purpose: SciTech 2014 brings together engineers and educators, researchers and designers, scientists and students, managers and executives in sharing lessons learned across many organizations and disciplines, advancing technological innovation, education, economic progress, and national security. The event explores how new technologies and new approaches can influence system affordability and environmental impact to enable the aerospace missions of tomorrow.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
2014 American Meteorological Society	Atlanta, GA	2/2/2014	2/6/2014	\$189,571	93
Web site Link: http://annual.ametsoc.org/2014/					

Purpose: The 2014 annual American Meteorological Society meeting is critical to NASA's drive to advance science, technology, and exploration to enhance knowledge, education, innovation, economic vitality, and stewardship of Earth. This meeting enables information sharing on recent scientific discoveries and advances the professional applications of various science disciplines.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Human Research Program (HRP) Investigators Workshop	Galveston, TX	2/10/2014	2/14/2014	\$170,317	46

Web site Link: <http://www.hrpiws2013.com/>

Purpose: This workshop provides an informal, collegial atmosphere for cross-disciplinary interaction between HRP grantees, management, and stakeholders in the field of human space flight research. The meeting includes oral and poster presentations, tutorials and panel discussions to address research progress, opportunities, processes, resources, and strategies to optimize HRP research.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Institute of Electrical and Electronics Engineers (IEEE) Aerospace Conference	Big Sky, MT	3/1/2014	3/8/2014	\$278,801	77

Web site Link: <http://www.aeroconf.org/>

Purpose: The IEEE Aerospace Conference promotes interdisciplinary understanding of aerospace systems, their underlying science and technology, and their application to government and commercial endeavors by providing a working environment that encourages collaboration and interaction.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
South X Southwest 2014	Austin, Texas	3/9/2014	3/12/2014	\$124,784	24

Web site Link: www.sxsw.com

Purpose: The South X Southwest 2014 conference is an annual set of film, interactive, and music festivals and conferences that take place every spring in Austin, TX. This conference assists in providing NASA the opportunity to meet its strategic goal to "share NASA with the public, educators, and students to provide opportunities to participate in our Mission, foster innovation and contribute to a strong national economy." Additionally, participation in this event will allowed the Office of

Communications to meet its goals to 1.) Participate in events that attract large numbers of the general public; and 2.) Target venues and events to reach beyond space enthusiasts and the science-attentive public.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
45 th Lunar and Planetary Science Conference	Woodlands, TX	3/17/2014	3/21/2014	\$327,882	103
<p>Web site Link: http://www.hou.usra.edu/meetings/lpsc2014/</p> <p>Purpose: The Lunar and Planetary Science Conference (LPSC) is the primary conference where researchers from around the world present results from a variety of topic areas of specific interest to NASA's Planetary Science Division with special sessions chosen each year to highlight timely issues such as results from new planetary missions or emerging new fields of study. This conference began as the forum for presenting results from the Apollo program and continues as the major forum for first results from most of NASA's planetary missions. Previous total attendance from all communities has been over 2,000.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
MaterialsLAB Workshop	Arlington, VA	4/15/2014	4/17/2014	\$ 112,584	128
<p>Web site Link: http://www.cvent.com/events/nasa-materials-lab-workshop/event-summary-f0ee4d29123a453b94c511ab660b81fa.aspx</p> <p>Purpose: The MaterialsLAB workshop focuses on the successful implementation of Open Source Science Campaigns designed to enable multiple researcher's simultaneous, open-source, access to synergistically build upon International Space System (ISS) data. The MaterialsLAB is the first implementation of the innovative, open-source science campaign concept. This workshop supports NASA's strategic goal of extending and sustaining human activities across the solar system by sustaining the operation and full use of the ISS. MaterialsLAB will provide the scientific and engineering guidance for developing and implementing the MaterialsLAB series of experiments covering ten topical areas in materials science.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
USA Science and Engineering Festival	Washington, DC	4/24/2014	4/24/2014	\$281,353	92
<p>Web site Link: www.usasciencefestival.org</p>					

Purpose: This event stimulates family interest in Science, Technology, Engineering, and Mathematics (STEM) education in keeping with the President’s initiative to graduate a million students in STEM fields at the end of the decade. This event is one of the eight major events designed by the Communications Coordinating Committee (CCC) for NASA participation in FY14. One of the objectives of this event was to present the really “cool” things that NASA does that will inspire students to STEM subject matter.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
European Geosciences Union General Assembly	Vienna Austria	4/27/2014	5/02/2014	\$203,408	46

Web site Link: <http://www.egu2014.eu/>

Purpose: The EGU meeting brings together NASA employees and contractors working on various Earth science missions and projects, such as the Earth Observing System (EOS) Mission, the Global Precipitation Mission (GPM), the Suomi-NPP (National Polar-orbiting Partnership), ICESAT-2, and SMAP among others, to interact with international colleagues from various space agencies, such as European Space Agency (ESA) and Japan Aerospace Exploration Agency (JAXA).

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Space Mission Operations and Ground Data Systems (SpaceOps)	Pasadena, CA	5/5/2014	5/9/2014	\$339,858	213

Web site Link: <https://www.aiaa.org/spaceops2014/>

Purpose: The SpaceOps conference is designed to exchange information about mission operations disciplines in order to leverage the world space operations community’s resources and increase the chances of mission success. Since its inception, all of NASA’s core missions have benefited from the lessons learned, technical information and best practices communicated and relationships incubated within the SpaceOps community.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
42 nd Aerospace Mechanisms Symposium (AMS)	Baltimore, MD	5/14/2014	5/16/2014	\$111,788	79

Web site Link: <http://www.aeromechanisms.com/>

Purpose: The 42nd AMS is concerned with the problems of design, fabrication, test, and operational use of aerospace mechanisms. Emphasis is on hardware developments. The symposium provides

both a technical and social forum for personnel active in the field of mechanisms technology, as well as providing a source of information for others with an interest in this field. Topical sessions for this symposium encompasses appendage deployment systems, bearings and tribology, MARS exploration tools, separations systems, testing, motors and gears, pumps and valves and small satellite mechanisms.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Joint Army Navy NASA Air Force (JANNAF)	Charleston, SC	5/19/2014	5/22/2014	\$ 104,631	39
<p>Web site Link: https://www2.cpiac.jhu.edu/meetings/May</p> <p>Purpose: JANNAF is the overall coordinator for the 61st JANNAF Propulsion Meeting, 42nd Structures and Mechanical Behavior, 38th Propellant and Explosives Development and Characterization, 29th Rocket Nozzle Technology and the 27th Safety and Environmental Protection Joint Subcommittee which will all take place during this time.</p> <p>The JANNAF Interagency Propulsion Committee coordinates fundamental research, exploratory development, and advanced development programs and accomplishes problem solving in the areas of joint agency interest on propulsion systems for missiles, rockets, boosters, spacecraft, satellites, and guns.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
224 th American Astronomical Society (AAS)	Boston, MA	6/1/2014	6/5/2014	\$409,925	156
<p>Web site Link: https://aas.org/meeting/aas</p> <p>Purpose: The primary object of the AAS is to promote the advancement of astronomy and closely related branches of science, while at the same time enhancing astronomy education and providing a political voice for its members through lobbying and grassroots activities. The AAS has over 7,000 members and maintains six scientific divisions: The Division for Planetary Sciences, the Division on Dynamical Astronomy, the High Energy Astrophysics Division, the Solar Physics Division (with which the meeting is jointly held), the Historical Astronomy Division, and the Laboratory Astrophysics Division.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
3 rd Annual ISS R&D Conference	Chicago, IL	6/17/2014	6/19/2014	\$176,588	96
<p>Web site Link: http://astronautical.org</p>					

Purpose: The 3rd Annual ISS R&D conference is the premier 2014 event on ISS science and technology development. It is dedicated to the full breadth of ISS science and technology utilization. The conference features a large contingent of government and industry panel sessions and cover all of the ISS R&D disciplines. Potential non-NASA users of the ISS, investigators and new sources of research funding, including industrialist academics and other government agency researchers will have an opportunity to learn about current research being conducted on ISS.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Institute of Aeronautics (AIAA) Aviation 2014	Atlanta, GA	6/16/2014	6/20/2014	\$614,976	255
Web site Link: http://www.aiaa-aviation.org					
Purpose: Aviation 2014 builds on the foundation of Aviation 2013 to stimulate thought provoking conversations among government and industry leaders and the engineering and technical professionals who develop and operate aviation systems to address pressing opportunities and challenges for the aviation industry.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
11 th International Planetary Probe Workshop (IPPW)	Pasadena, CA	6/16/2014	6/20/2014	\$114,216	71
Web site Link: http://www.hou.ursa.edu/meetings/ippw20					
Purpose: IPPW is the primary meeting where new technology and findings in the field of Entry, Descent, and Landing (EDL) are shared. It is essential to preserving the Nation's core competency in the field of EDL. This is the only conference that brings together planetary scientists and mission designers to discuss issues that are specific to entry probes. This workshop brings together an international group of engineers and scientists to collaborate and share ideas on the future of planetary exploration.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Society of Photographic Instrumentation Engineers (SPIE) Astronomical Telescopes Instrumentation 2014	Montreal, Canada	6/22/2014	6/24/2014	\$166,646	49
Web site Link: http://spie.org/x13662.xml					
Purpose: The SPIE meeting on Astronomical Telescopes and Instrumentation is about exchanging information on new technologies to further science and innovation -- to allow NASA to explore the					

universe. The SPIE conference also fosters NASA's "Overarching Strategies" to "invest in next generation technologies" and to "Expand partnerships with international, intergovernmental, academic, industrial, and entrepreneurial communities. The SPIE conference will be attended by scientists and engineers from academia, industry, federal labs (NASA, NSF, NIST), FFRDCs, and Other Government agencies.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
AMS 14 th Atmospheric Radiation Conference and Associated Conference	Boston, MA	7/7/2014	7/11/2014	\$149,947	57
Web site Link: http://www.ametsoc.org/meet/fainst/201414atrad.html					
Purpose: The 14 th Conference on Atmospheric Radiation includes all areas of the atmospheric radiation spanning radiative transfer theory. This joint conference provides a focus on scientific topics that are key to studying the Earth's changing climate system. More specifically, this conference provides a forum for presenting research as well as guiding the direction of future research priorities which aligns with NASA's goal of understanding the climate system.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
2014 Institute of Electrical and Electronics Engineers (IEEE) International Geoscience and Remote Sensing Symposium	Quebec City Canada	7/13/2014	7/18/2014	\$294,041	48
Web site Link: http://www.igarss2014.org					
Purpose: This IEEE International Geoscience and Remote Sensing Symposium directly aligns with the Earth Science Division's flight programs and the use of Earth observation data for societal benefit and environmental monitoring. The conference is attended by senior science, engineering and program management personnel from the major space agencies participating in Earth science satellite remote sensing. This event brings together the flight program management from the major international earth observing space agencies, enabling focused and substantive discussions on future collaboration approaches and joint missions.					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
44 th International Conference on	Tucson, AZ	7/13/2014	7/17/2014	\$127,804	59

Environmental Systems (ICES)					
<p>Web site Link: http://www.depts.ttu.edu/ceweb/ices/</p> <p>Purpose: ICES addresses the disciplines of Environmental Control and Life Support, Thermal Control, and ExtraVehicular Activity (ETE) which have all been identified as critical fields to address in developing future spacecraft and conducting exploration missions. The ICES provides a forum to tell colleagues from around the world about the progress being made in space and to hear about progress being made in other parts of the space ETE community.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
50th AIAA/ASME/SAE/ASEE JPC IECEC	Cleveland, OH	7/28/2014	7/30/2014	\$445,344	299
<p>Web site Link: http://www.aiaa.org/EventDetail.aspx?id=18584</p> <p>Purpose: The Joint Propulsion Conference (JPC) and the International Energy Conversion Engineering Conference (IECEC) holds special panel sessions that will focus on advanced system applications that can be used to showcase propulsion systems and components, and the technologies that enable them.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Aisa Ocenia Geosciences Societ (AOGS) 11 th Annual Meeting	Sapporo, Japan	7/28/2014	8/01/2014	\$215,363	43
<p>Web site Link: http://www.asiaoceania.org/aogs2014/public.asp?page=home.htm</p> <p>Purpose: The AGOS meeting is one of the most important Asian meetings in heliophysics research. AOGS is focused on the geosciences with an emphasis on global issues. It enables researchers to interact with a population of researchers that are not otherwise readily available for scientific discussions. This conference is a forum used to expose and disseminate the latest results from NASA missions and provide access to state-of-the-art simulations and correlative data sets from foreign space missions.</p>					

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
24 th American Institute of Aeronautics (AIAA)/Utah State University (USU) Conference on Small Satellites	Logan, UT	8/2/2014	8/7/2014	\$238,065	100

Web site Link: [Http://www.smallsat.org](http://www.smallsat.org)

Purpose: The 24th Annual AIAA/USU Conference on Small Satellites' creates innovative new space technologies for our exploration, science, and economic future. Attendees participate in formal and informal knowledge and information sharing, and provide opportunities for NASA to interact with key Small Satellite developers and hardware providers, and other Small Satellites missions, to discuss fundamental technologies, and resolve issues essential to advancing NASA's current and future Small Satellite missions.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
American Institute of Aeronautics (AIAA) Space 2014	San Diego, CA	8/4/2014	8/7/2014	\$341,528	44

Web site link: <http://www.aiaa-space.org/>

Purpose: Since 2000, NASA, USAF and Industry jointly have organized the premier AIAA space conference and exposition event on the West Coast, providing an annual forum for exchange of information and discussions critical for the future exploration of Space. On an average, over 1,200 attendees from more than 100 organizations in the space industry have attended this event in an exchange of information.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Thermal Fluids Analysis Workshop	Cleveland, OH	8/4/2014	8/8/2014	\$133,216	46

Web site Link: <http://tfaws.nasa.gov/TFAWS13/Index.html>

Purpose: This conference advances the Agency's core mission through the exchange of knowledge and information, and by enhancing collaboration between NASA Centers and the passive thermal, active thermal, fluids and aerothermal disciplines. The Agency's core mission is directly supported through the offering of various courses on fundamental theory and hands-on training for the key analytical tools utilized by the agency for these disciplines. This sharing of expertise between Centers and with other Agencies, industry, and academia invigorates the communication, teamwork, and excellence are integral to NASA's core values.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
Society of Photographic Instrumentation Engineers (SPIE) Optics & Photonics Conference	San Diego, CA	8/17/2014	8/21/2014	\$124,791	49

Web site Link: <http://spie.org>

Purpose: The SPIE Optics and Photonics Conference is held once every two years, and is the key showplace conference for NASA to represent and present current technologies, current mission data, and interact with the international community in fields of Optics, Detectors, Systems Engineering, Contamination Engineering, Materials, Nanotechnology, and many other critical technical fields. NASA's involvement in this conference enables interaction with peers in the community, and increase our knowledge in these technical areas, which aid in improving NASA's technical abilities to meet Agency goals.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
2014 EUMETSAT Meteorological Satellite	Geneva Switzerland	9/22/2014	9/26/2014	\$110,242	17

Web site Link:

http://www.eumetsat.int/website/home/News/ConferencesandEvents/DAT_2076129.html

Purpose: Traditionally EUMETSAT aimed to give special emphasis to one of the many topical themes challenging meteorologists the world over. In 2014, the focus of the conference will be the use of satellite data for forecasting and in studying atmospheric processes. The ISS-RapidScat mission is one of three NASA Earth observation missions launched in 2014. This conference offers the chance to present the mission to the international community containing the main users for the operational community in Europe, as well as providing a chance to talk to the RapidScat.

Conference	Location	Start Date	End Date	Total Cost	NASA Paid Attendees
65 th International Astronautical Congress (IAC)	Toronto, Canada	9/29/2014	10/3/2014	\$229,271	50

Web site Link: <http://www.iac2014.org/>

Purpose: The IAC is the preeminent annual global space conference organized by the International Astronautical Federation (IAF), which has 246 members from 60 countries. IAC acts as both as a forum for public space diplomacy and high level consultations, involving NASA's most senior leaders and space agency leaders from around the world, as a substantive academic conference covering the full breadth and depth of NASA's activities across all mission directorates and scientific disciplines.