ESA Update

Antonella Nota

Space Telescope User Committee
October 20, 2016
ESA Mission Extension (Senior Review)

the process

- ESA Internal review in May 2016 - successful
- Proposal submitted on September 1, 2016
- The Astronomy Working Group (AWG), at its 163rd meeting, and the Solar System Exploration Working Group (SSEWG), at its 27th meeting, both held on 12-14 October 2016 at ESTEC, Noordwijk (NL), in a joint session evaluated the scientific proposals to confirm Cluster, Hinode, Hubble, INTEGRAL, Mars Express, PROBA-2, SOHO and XMM-Newton operations for 2017-2018.
- The AWG and SSEWG had also been requested to provide a scientific evaluation of the mission extension proposals for 2019-2020 for Cluster, Gaia (1.5 years duration), Hinode, Hubble, INTEGRAL, Mars Express, PROBA-2, SOHO, and XMM-Newton.
The AWG and SSEWG reviewed the documentation supplied in advance and provided a number of questions to the proposers that were answered in writing before the meeting as well as orally during the meeting itself.

David Sing and Antonella Nota presented to the joint AWG/SSEWG -

THANK YOU DAVID!!!

Recommendations:
1. It is therefore recommended that the operations of the Hubble mission be confirmed for 2017-2018.

2. The AWG and SSEWG recommend continuing the ESA contributions to the mission operations for 2019-2020 for Hubble.
The NASA-led Hubble Space Telescope has been serving a very broad international scientific community with key contributions to several branches of astronomy including planetary science, exoplanets, star formation, galaxies formation and evolution, and cosmology.

The range and quality of the science proposed for the extension interval (2019-2020) is impressive. The new scientific opportunities will include:

- Hubble has the unique capability to undertake UV observations. These are crucial for studying energetic phenomena, stellar winds and chromospheres, nebulae and remnants of stellar evolution, planetary atmospheres, mapping the distribution and composition of warm/hot gas in the local Universe.

- Synergy with JWST, which will be launched towards the end of 2018 and will cover mostly the IR range. There are unique opportunities to complement and enhance JWST science through Hubble specific observation plans.

- Very Large Treasury Programs including Hubble’s Panchromatic Exoplanet Legacy program, which will produce large samples of exoplanets spectra.
The Hubble Space Telescope has just celebrated 26 years in orbit and is expected to be a powerful observatory well into the 2022 and beyond. The James Webb Space Telescope will launch in the autumn 2018, so it is possible to plan for possibly several years of overlap between the two missions.

This conference is dedicated to the synergy between Hubble and JWST, and to how the community can best prepare to take immediate advantage of the amazing opportunities that will be presented.

SOC:

Antonella Nota Co-Chair (European Space Agency/STScI)
Pierre Ferruit Co-Chair (European Space Agency)
Neta Bahcall (Princeton University)
Martin Barstow (University of Leicester)
Francesco Bertola (Universita’ di Padova)
Roger Davies (University of Oxford)
René Doyon (Université de Montréal)
Annette Ferguson (Institute for Astronomy, University of Edinburgh)
Garth Illingworth (UCO/Lick Observatory)
I. Neill Reid (STScI)
Marco Sirianni (European Space Agency)
Massimo Stiavelli (STScI)
Monica Tosi (INAF - Osservatorio Astronomico di Bologna)
Jennifer Wiseman (NASA GSFC)
Gillian Wright (UK Astronomy Technology Centre)
Simone Zaggia (LOC Chair, Osservatorio di Padova)
Confirmed Invited Speakers

Angela Adamo (Stockholm)
Marusa Bradac (univ. California Davis)
Saida Caballeros-Nieves (Sheffield)
Emanuele Dalessandro (Bologna)
Courtney Dressing (Harvard)
David Ehrenreich (Geneva)
John Mather (GSFC)
Pascal Oesch (Geneva)
Fabio Pacucci (Yale)
Guilia Rodighiero (INAF Padua)
Adam Riess (JHU/STScI)
Elena Sabbi (STScI)
David Sing (Exeter)
Giovanna Tinetti (UCL)
Eline Tolstoy (Groningen)

53% female
Timeline

- Abstract deadline - October 1
- 70 abstracts received
- Plan is to select ~20 contributed speakers
- Registration will open on November 15
  - SOC, Invited Speakers, Contributed Speakers, VIPs
  - General registration (posters only)

- Registration will close when maximum number is reached (150)
An Art & Science Exhibit

our place in SPACE

10 artists
inspired by Hubble Space Telescope Images

Artisti / Artists
Antonio Abbatepaolo • Marco Bolognesi
Paola Giordano • Ettore Greco
Mario Paschetta • Alessandro Spadari
Marialuisa Tadel • Sara Teresano
Mario Vespasiani • Dania Zanotto

Istituto Veneto di Scienze, Lettere ed Arti
Palazzo Franchetti — VENEZIA

01.02 — 17.04.2017

INGRESSO LIBERO / FREE ADMISSION
tutti i giorni: 10 – 18
everyday: 10am – 6pm

Comitato Scientifico / Executive Committee
Ken Carpenter • Lars Christensen • Carol Christian
Roger Davies • Mathias Jager • Hussein Jirdeh

A cura di / Curated by
Antonella Nota e Anna Caterina Bellati