08:30 AM
Welcome coffee

09:00 AM
Opening remarks:
Secretary General, IAA
Dr. Jean-Michel Contant
Chair, First IAA STEM/STEAM Symposium
Prof. Dr. Liya Regel

Session 1
Chair: Dr. Giovanni Maizza

09:10 AM
IAA-STEM-16-01-01 - A Model for Enhancing STEM and Space Education in Underserved Students
Julia Clark
Program Director in the Division of Research on Learning in Formal and Informal Settings at the National Science Foundation, USA
09:40 AM
IAA-STEM-16-01-02 - The Mars Lab: An innovative and multidisciplinary integration of space engineering and science research with a self-sustaining space education and outreach project
Carol Oliver, Brett Biddington
Australian Center for Astrobiology School of Biological, Earth and Environmental Sciences University of New South Wales, Kensington, AUSTRALIA

10:10 AM
IAA-STEM-16-01-03 - On the Application of STEAM Principles in Space Project Design
Wesley L. Harris
Massachusetts Institute of Technology, Cambridge, USA

Coffee break:
10:30 AM

11:00AM
Session 2
Chair: Dr. Jordi L. Gutiérrez

IAA-STEM-16-02-01 - Partnering for success in STEM education and innovation: a statewide university system and a national laboratory.
Stacey S. Patterson
Associate Vice President for Research, The University of Tennessee and Vice President, UT Research Foundation, USA

11:30 AM
IAA-STEM-16-02-02 - From Leonardo da Vinci to future STEAM education for Space
Giovanni Maizza
Department of Applied Science and Technology, Center Director Politecnico di Torino, Torino, ITALY

12:00 AM
IAA-STEM-16-02-03 - Best practices in STEM/STEAM education at the Mexican Space Agency
Carlos Duarte
Deputy Director General for Space Education Agencia Espacial Mexicana, MEXICO

12:15 PM
Lunch

Session 3
Chair: Dr. Stacey S. Patterson

01:30 PM
IAA-STEM-16-03-01 - Creativity as integration: A crucial shift from STEM to STEAM
Guy Boy
Florida Institute of Technology and NASA Kennedy Space Center, USA
02:00 PM  
IAA-STEM-16-03-02 - **Femtosatellites for Space Education**
*Jordi L. Gutiérrez, Pilar Gil-Pons*
Department of Physics, Universitat Politècnica de Catalunya, SPAIN

02:30 PM  
IAA-STEM-16-03-03 - **Emerging STEM/STEAM and Space: Lessons learned from the FP7 project “ICARUS” -- an SAR project with an innovative dissemination and public outreach strategy**
*Norbert Frischauf, Philippe Carous, Stephane Ourevitch, Almudena Velasco Rodriguez*, SpaceTec Partners, and *Geert de Cubber*, Royal Military Academy of Belgium, BELGIUM

03:00 PM  
IAA-STEM-16-03-04 - **Nurturing Creativity in Youth to Improve STEM Education for the Space 4.0 Era**
*Oleg Ventskovsky*
Director, Yuzhnoye Design Office European Representation in Brussels, UKRAINE

03:15 PM  
IAA-STEM-16-03-05 - **STEM Education for Space in Italy: Girls can do it**
*Amalia Ercoli Finzi*
Dipartimento di Scienze e Technologie Aerospaziali, Ingegneria Aerospaziale, Politecnico di Milano via La Masa, Milano, ITALY

03:30 PM  
**Coffee break:**

**Session 4**
Chair: **Mr. Norbert Frischauf**

03:45 PM  
IAA-STEM-16-04-01 - **Integrating Arts with STEM Education - The Indian Perspective**
*Radhika Ramachadran*
Space Physics Laboratory, Vikram Sarabhai Space Centre, INDIA

04:00 PM  
IAA-STEM-16-04-02 - **The study of Russian literature should be included in the training of physician-cosmonaut**
*Vassily Loginov, Elena Yu. Bytchkova*
Faculty of Basic Medicine, Lomonosov Moscow State University, Moscow, RUSSIAN FEDERATION

04:15 PM  
IAA-STEM-16-04-03 - **A proposal for a Space Engineering B.Sc. at the Universitat Politècnica de Catalunya**
*Jordi L. Gutiérrez, Pilar Gil-Pons*
Department of Physics, Universitat Politècnica de Catalunya, SPAIN
Discussion

Moderator: Dr. Phillipe Arbeille
Unite Medicine & Physiologie Spatiales- Faculte de Medicine, Tours, FRANCE

Adjourn