Monday July 3, 2017

Session I. State-of-the-art of astronomy education research
Chair: Christopher Impey

940-1040 Anthony Lelliott INvited: 40 years of astronomy education research: misconceptions, interventions and a future agenda
1040-1110 coffee break
1110-1130 Daniel Barringer "How do we know planets are common?": A coherent content storyline for exoplanets
1130-1150 Chris Impey Online Astronomy Courses for Formal and Informal Learners
1150-1210 Francisco Javier Perez Caceres ScienceIES, a distinctive way to teach Astronomy
1210-1400 lunch

Session II. Research on leveraging new media and information systems for teaching and learning
Chair: Susana Deustua

1400-1500 Pamela Gay INvited: Doing astronomy out loud: Using new and social media to create an educated mob
1500-1520 Chenzhou Cui Data driven astronomy education and public outreach
1520-1550 tea break
1550-1610 Marieke Baan Thinking big in a small country – astronomy outreach and education in the Netherlands
1610-1630 Annette Lee Celestial Calendar-Paintings and Culture-Based Digital Storytelling: Cross-Cultural, Interdisciplinary, STEM/STREAM Resources for Authentic Astronomy Education Engagement
1630-1650 Margarita Metaxa Gaming to learn astronomy, an innovation approach, two study cases.
1650-1710 Maarten Roos-Serote Space videos on YouTube: what the audiences really likes.
1710-1830 Poster Session I

Tuesday July 4, 2017

Session III: Astronomy Education Research in Schools
Chair: Beatriz Garcia

900-1000 Néstor Camino INvited: How to teach Astronomy to humans in a full of life Universe
1000-1020 Cristina Leite The sky observation in Brazilian textbooks
1020-1050 coffee break
1050-1110 Antonio Eff-Darwich Looking for stars, the sun and exoplanets in the educational core standards: the Spanish case
1110-1130 Shanshan Li Data Driven Astronomy Education in Primary Schools
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<tbody>
<tr>
<td>1130-1150</td>
<td>Cristiano Mattos</td>
<td>Astronomical concepts in bilingual deaf education</td>
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<td>1150-1210</td>
<td>Masamitsu Ohyama</td>
<td>The teaching materials for teachers about small astronomical telescopes</td>
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<td>1210-1230</td>
<td>Rosa Maria Ros</td>
<td>Evaluating Quality in Education; the NASE ISO experience</td>
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<td>1230-1400</td>
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<td>1400-1500</td>
<td>Constance Walker</td>
<td>INvited: Outcomes from the IYL2015 Quality Lighting Teaching Kit Program: Reaching for the Stars</td>
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<td>1500-1520</td>
<td>Jorge Rivero Gonzalez</td>
<td>Astronomy Pre-tertiary Education at Leiden Observatory: Beyond Universe Awareness</td>
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<td>1520-1550</td>
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<td>1550-1610</td>
<td>Magda Stavinschi</td>
<td>Science and religion in undergraduate school education</td>
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<td>1610-1630</td>
<td>Olga Suarez</td>
<td>EduCosmos, astronomical research in the classroom</td>
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<td>Kentaro Yaji</td>
<td>Solar science education with use of the images and movies, its practice and evaluation</td>
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<td>Hector Bravo-Alfaro</td>
<td>Eight years after IYA2009: a project on Astronomy Education and its impact on selected countryside towns in Mexico</td>
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<td>1710-1830</td>
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<td>Poster Session II</td>
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**Wednesday July 5, 2017**

**Session IV: Research into the value and influence of astronomy education in other disciplines AND Interplay of students' worldviews with the worldview of science in a globalizing world**  
Chair: Magda Stavinschi

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<tbody>
<tr>
<td>900-1000</td>
<td>Nicoletta Lanciano</td>
<td>INvited: Inter-, multi- and trans-disciplinary approaches in astronomy education research</td>
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<td>Christopher Corbally and</td>
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<td>Margaret Boone Rappaport</td>
<td>Evaluation Research Using Astronomy Theatre Suggests Good Promise for Young Hispanic Women to Choose Science Majors</td>
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<td>1020-1050</td>
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<td>1050-1110</td>
<td>Greg Stachowski</td>
<td>The impact on education of Astronomical Olympiads and the International Olympiad on Astronomy and Astrophysics</td>
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<td>1110-1130</td>
<td>Aniket Sule</td>
<td>Teacher's misconceptions in curricular astronomy</td>
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**Session V: Innovations in research methodologies and instrumentation**  
Chair: Akihiko Tomita

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<td>Beatriz Garcia</td>
<td>Data exploration through the sonorization: an opportunity of multiple learning</td>
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<td>Nataliya Kovalenko</td>
<td>Learning theories and Planetarium environment for astronomy education</td>
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<td>1210-1230</td>
<td>Pablo Santamaria</td>
<td>Storytelling in a revolutionary way: fulldome production for planetariums</td>
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Thursday July 6, 2017

Session VI: Teaching astrobiology to a university multidisciplinary audience: opportunities and pitfalls
Chair: Muriel Gargaud

900-1000 Charles Cockell **INVITED**: How to establish a complete introductory astrobiology course at your university
1000-1020 Molly Simon An Analysis of College Students’ Understanding of Planet Formation Before Instruction
1020-1050 coffee
1050-1110 Jonas Souza Astrobiology: obstacles and possibilities in the science teaching scenario
1110-1130 Rosemary Cane The Astrobiology Academy: Four Years of Resource Development for Primary and Secondary Schools
1130-1150 Roberto Vazquez Learning Astrobiology 101 with experiments in Baja California, Mexico
1150-1210 Michael Waltemathe Teaching with Astrobiology - Enhancing Science and Technology-Awareness in non-science university students

Session VII: Organization of astrobiology teaching and training in different institutions and countries / Future international cooperation in astrobiology teaching
Chair: Wolf Geppert, Inge Loes ten Kate

1210-1230 Wolf Geppert The European Astrobiology Campus – Towards a comprehensive training of Astrobiology Students in Europe.
1230-1400 lunch
1400-1500 Karen Meech **INVITED**: International field- base courses in astrobiology: Experiences and lessons learned

Session V - continued: Innovations in research methodologies and instrumentation
Chair: Akihiko Tomita

1500-1520 Emanuele Balboni Other stars, Other planets
1520-1550 tea break
1550-1610 Silvia Galano A teaching-learning module on stellar structure and evolution
1610-1630 Simon Portegies Zwart Education in Computational Astrophysics with the Astronomical Multipurpose Software Environment
1630-1650 Patricia Spinelli What does the general public expect from a night-sky observation?
1650-1710 In-Ok Song Application of spectrometer in research-based astronomy education

1900-2300 **conference dinner**
Session VIII: Innovative teaching and new assessment methods

Chair: Kalle Kirsimäe

1000-1020  Kirsi Lehto  eTimeTrek: digital deep history of the Universe
1020-1050  coffee
1050-1110  Jasmina Lazendic-Galloway  Assessment for learning in 1st year astronomy and astrobiology courses
The best skies on Earth: How to link astronomy and cosmology to local development in the Argentinean Puna
1110-1130  Clementina Medina  Astrobiology Education in Russia: problems and perspectives
1130-1150  Oleg Kotsyurbenko
1150-1210  Micheal Reid  Non-Science Majors Doing Inquiry with Robotic Telescopes
Impact of a didactic sequence on basic Astronomy concepts for graduates in Physics of online and classroom modalities
1210-1230  Marcos Voelzke
1230-1400  lunch

Session VIII: How to present astrobiology lectures to the general public and young pupils (10-16 years old)

Chair: Inge Loes ten Kate

1400-1500  Daniella Scalice  INVITED: NASA and the Navajo Nation: Bringing Together Astrobiology Science and Cultural Knowledge for Native Youth
Closing lecture
1500-1600  Paulo S. Bretones  INVITED: Astronomy Education Research: impact and future directions
1600-1620  Wrap up and closing