

Monday July 3, 2017

830-930 Registration
930-940 Opening and Welcome

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 Fransisco Javier Perez Cacerez 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/STEAM 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
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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| 1130-1150 | Cristiano Mattos | Astronomical concepts in bilingual deaf education |
| 1150-1210 | Masamitsu Ohyama | The teaching materials for teachers about small astronomical telescopes |
| 1210-1230 | Rosa Maria Ros | Evaluating Quality in Education; the NASE ISO experience |
| 1230-1400 | | <i>lunch</i> |
| 1400-1500 | Constance Walker | INVITED : Outcomes from the IYL2015 Quality Lighting Teaching Kit Program: Reaching for the Stars |
| 1500-1520 | Jorge Rivero Gonzalez | Astronomy Pre-tertiary Education at Leiden Observatory: Beyond Universe Awareness |
| 1520-1550 | | <i>tea break</i> |
| 1550-1610 | Magda Stavinschi | Science and religion in undergraduate school education |
| 1610-1630 | Olga Suarez | EduCosmos, astronomical research in the classroom |
| 1630-1650 | Kentaro Yaji | Solar science education with use of the images and movies, its practice and evaluation |
| 1650-1710 | Hector Bravo-Alfaro | Eight years after IYA2009: a project on Astronomy Education and its impact on selected countryside towns in Mexico |
| 1710-1830 | | <i>Poster Session II</i> |

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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| 900-1000 | Nicoletta Lanciano | INVITED : Inter-, multi- and trans-disciplinary approaches in astronomy education research |
| | Christopher Corbally and Margaret Boone Rappaport | Evaluation Research Using Astronomy Theatre Suggests Good Promise for Young Hispanic Women to Choose Science Majors |
| 1000-1020 | | |
| 1020-1050 | | <i>coffee</i> |
| 1050-1110 | Greg Stachowski | The impact on education of Astronomical Olympiads and the International Olympiad on Astronomy and Astrophysics |
| 1110-1130 | Aniket Sule | Teacher's misconceptions in curricular astronomy |

Session V: Innovations in research methodologies and instrumentation

Chair: Akihiko Tomita

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| 1130-1150 | Beatriz Garcia | Data exploration through the sonorization: an opportunity of multiple learning |
| 1150-1210 | Nataliya Kovalenko | Learning theories and Planetarium environment for astronomy education |
| 1210-1230 | Pablo Santamaria | Storytelling in a revolutionary way: fulldome production for planetariums |
| 1230-1400 | | <i>lunch</i> |

Thursday July 6, 2017

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

Chair: Muriel Gargaud

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| 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 | | <i>coffee</i> |
| 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

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| 1210-1230 | Wolf Geppert | The European Astrobiology Campus – Towards a comprehensive training of Astrobiology Students in Europe. |
| 1230-1400 | | <i>lunch</i> |
| 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

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| 1500-1520 | Emanuele Balboni | Other stars, Other planets |
| 1520-1550 | | <i>tea break</i> |
| 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

Friday July 7, 2017

Session VIII: Innovative teaching and new assessment methods

Chair: Kalle Kirsimäe

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| 900-1000 | Charley Lineweaver | INVITED : Making an Astrobiological MOOC (Massive Open Online Course): Why? How? For Whom? |
| 1000-1020 | Kirsi Lehto | eTimeTrek: digital deep history of the Universe |
| 1020-1050 | | <i>coffee</i> |
| 1050-1110 | Jasmina Lazendic-Galloway | Assessment for learning in 1st year astronomy and astrobiology courses |
| 1110-1130 | Clementina Medina | The best skies on Earth: How to link astronomy and cosmology to local development in the Argentinean Puna |
| 1130-1150 | Oleg Kotsyurbenko | Astrobiology Education in Russia: problems and perspectives |
| 1150-1210 | Micheal Reid | Non-Science Majors Doing Inquiry with Robotic Telescopes |
| 1210-1230 | Marcos Voelzke | Impact of a didactic sequence on basic Astronomy concepts for graduates in Physics of online and classroom modalities |
| 1230-1400 | | <i>lunch</i> |

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

Chair: Inge Loes ten Kate

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| 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 |