Oral program

Monday July 3, 2017

8:30 - 9:30 9:30 - 9:40		Registration Opening and Welcome		
	Session I. State-of-the-art of the astronomy education research Chair: Cristopher Impey			
9:40 - 10:40	Anthony Lelliott	INVITED : 40 years of astronomy education research: misconceptions, interventions and a future agenda		
10:40 - 11:10		Coffee break		
11:10 - 11:30	Daniel Barringer	"How do we know planets are common?": a coherent content storyline for exoplanets		
11:30 - 11:50	Chris Impey	Online Astronomy Courses for Forman and Informal Learners		
11:50 - 12:10	Javier Pérez Cáceres	ScienceIES, a distinctive way to teach Astronomy		
12:10 - 14:00		Lunch		
S	Session II. Research on leveraging new media and information systems for teaching and learning Chair: Susana Deustua			
14:00 - 15:00	Pamela Gay	INVITED : Doing astronomy out loud: using new and social media to create an educated mob		
15:00 - 15:20	Chenzhou Cui	Data driven astronomy education and public outreach		
15:20 -15:50		Tea break		
15:50 - 16:10	Marieke Baan	Thinking big in small country - astronomy outreach and education in Netherlands		
16:10 - 16:30	Annette Lee	Celestial calendar-paintings and culture-based digital storytelling: cross-cultural, interdisciplinary, STEM/STEAM resources for authentic astronomy education engagement		

Gaming to learn astronomy, an innovation approach, two study cases

Space videos on YouTube: what the audiences really likes

Poster session I

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16:30 - 16:50

16:50 - 17:10

17:10 - 18:30

Margarita Metaxa

Maarten Roos-Serote

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Tuesday July 4, 2017

Session III. Astronomy Education Research in Schools

Chair: Beatriz Garcia

10:00 - 10:20	Cristina Leite	The sky observation in Brazilian textbooks
10:20 - 10:50		Coffee break
10:50 - 11:10	Antonio Eff-Darwich	Looking for stars, the sun and exoplanets in the educational core standards:
		the Spanish case
11:10 - 11:30	Shanshan Li	Data driven astronomy education in primary schools
11:30 - 11:50	Cristiano Mattos	Astronomical concepts in bilingual deaf education
11:50 - 12:10	Masamitsu Ohyama	The teaching materials for teachers about small astronomical telescopes
12:10 - 12:30	Rosa Maria Ros	Evaluating quality in education; the NASE ISO experience
12:30 - 14:00		Lunch
14:00 - 15:00	Constance Walker	INVITED: Outcomes from the IYL2015 Quality Lighting Teaching Kit Pro-
		gram: reaching for the stars
15:00 - 15:20	Jorge Rivero González	Astronomy pre-tertiary education in Leiden Observatory: beyond universe
		awareness
15:20 -15:50		Tea break
15:50 - 16:10	Magda Stavinschi	Science and religion in undergraduate school education
16:10 - 16:30	Olga Suárez	EduCosmos, astronomical research in the classroom
16:30 - 16:50	Kentaro Yaji	Solar science education with use of the images and movies, its practice and
		evaluation
16:50 - 17:10	Héctor Bravo-Alfaro	Eight years after IYA2009: a project on astronomy education and its impact
		on selected countryside towns in Mexico
17:10 - 18:30		Poster Session II

Wednesday July 5, 2017

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

Chair: Magda Stavinschi

9:00 - 10:00	Nicoletta Lanciano	INVITED : Inter-, multi- and trans-disciplinary approaches in astronomy education research
10:00 - 10:20	Cristopher Corbally and	Choose science majors
	Margaret Boone Rappa-	
	port	
10:20 - 10:50		Coffee break
10:50 - 11:10	Greg Stachowski	The Impact on education of Astronomical Olympiads and the International
		Olympiad on Astronomy and Astrophysics
11:10 - 11:30	Aniket Sule	Teacher's misconceptions in curricular astronomy

Session V. Innovations in research methodologies and instrumentation

Chair: Akihiko Tomita

11:30 - 11:50	Beatriz Garcia	Data exploration through the sonorization: an opportunity of multiple learning
11:50 - 12:10	Nataliya Kovalenko	Learning theories and Planetarium environment for astronomy education
12:10 - 12:30	Pablo Santamaria	Storytelling in a revolutionary way: fulldome production for planetariums
12:30 - 14:00		Lunch

Thursday July 6, 2017

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

9:00 - 10:00	Charles Cockell	INVITED : How to establis a complete introductory astrobiology course at your university
10:00 - 10:20	Molly Simon	An analysis of college students' understanding of planet formation before instruction
10:20 - 10:50		Coffee break
10:50 - 11:10	Jonas Souza	Astobiology: obstacles and possibilities in the science teaching scenario
11:10 - 11:30	Rosemary Cane	The Astrobiology Academy: four years of resource development for primary and secondary schools
11:30 - 11:50	Roberto Vázquez	Learning Astrobiology 101 with experiments in Baja California, Mexico
11:50 - 12:10	Michael Waltemathe and Elke Hemminger	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

12:10 - 12:30	Wolf Geppert	The European Astrobiology Campus - Towards a comprehensive training of
		astrobiology students in Europe
12:30 - 14:00		Lunch
14:00 - 15:00	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

15:00 - 15:20	Emanuele Balboni	Other stars, Other planets
15:20 - 15:50		Tea break
15:50 - 16:10	Silvia Galano	A teaching-learning module on stellar structure and evolution
16:10 - 16:30	Simon Portegies Zwart	Education in computational astrophysics with the astronomical multipurpose
		software environment
16:30 - 16:50	Patricia Spinelli	What does the general public expect from a night-sky observation
16:50 - 17:10	In-Ok Song	Application of spectrometer in research-based astronomy education
19:00 - 23:00		Conference dinner

Friday July 7, 2017

Session VIII: Innovative teaching and new assessment methods

Chair: Kalle Kirsimäe

9:00 - 10:00	Charley Lineveawer	INVITED : Making an Astrobiological MOOC (Massive Open Online Course): Why? How? For Whom?
10:00 - 10:20	Kirsi Lehto	eTimeTrek: digital deep history of the universe
10:20 - 10:50		Coffee break
10:50 - 11:10	Jasmina Lazendic-	Assessment for learning in 1st year astronomy and astrobiology courses
	Galloway	
11:10 - 11:30	Clementina Medina	The best skies on earth: How to link astronomy and cosmology to local development in the Argentinean Puna
11:30 - 11:50	Oleg Kotsyurbenko	Astrobiology education in Russia: problems and perspectives
11:50 - 12:10	Michael Reid	Non-science majors doing inquiry with robotic telescopes
12:10 - 12:30	Marcos Voelzke	Impact of a didactic sequence on basic astronomy concepts for graduates in physics of online and classroom modalities
12:30 - 14:00		Lunch

Session VII: How to present astrobiology lectures to the general public and young pupils (10-16 years old) Chair: Inge Loes ten Kate

14:00 - 15:00	Daniella Scalice	INVITED: NASA and the Navajo Nation: bringing together astrobiology
		science and cultural knowledge for native youth
15:00 - 16:00	Paulo S. Bretones	INVITED : Astronomy education research: impact and the future directions
16:00 - 16:20		Wrap up and closing