

SUNDAY
24.04.2016

10:00 - 11:20

Conference Hall

INSPIRING SCIENCE EDUCATION CASE STUDIES FROM BELGIUM, GREECE, ROMANIA, PORTUGAL AND BULGARIA
(Chair: Sally Reynolds)

Inquiry Based Science Education Inspiring Flemish Teachers, experiences with educational resources from a Flemish perspective, Vanbuel, M., Reynolds, S., and van Kooten, J

Inspiring Science Education in Romania, Jugureanu, R., Baldea, A., Garabet, M.

Moisil Remote Lab for Inquiry Learning in Romania, Garabet, M., Baldea, A., Neacsu I.

Inspiring Teachers for inspired children - a successful story of community building in Portugal, Doran, R., Almeida, M., Costa, A., Cabral, L.

• **INSPIRING SCIENCE EDUCATION TEACHERS AWARD CEREMONY**

Conference Hall
INSPIRING ENVIRONMENTAL EDUCATION
(Chair: Dr Fani Stylianidou)

Fostering Environmental Literacy by an ISE-approach
Kerstin Bissinger, Franz X. Bogner

An environmental approach to the importance of Light, Voukloutzi, E.

Towards awareness for pollinator conservation: An educational approach with the online bee hive HOBOS, Schönfelder, M., Bogner, F.X.

An approach to Green Education in Anatolia College Greece,
E. Kalambokis, L. Antonoglou, C.P. Hadjiantoniou-Marouli

The School Garden Project, Christa Folia

Lunch

Conference Hall
HIGHLIGHTING GOOD PRACTICES IN TEACHING STEM
(Chair: Dr Angelos Lazoudis)

Highlighting Good Practices in Teaching STEM via Webinars in the Framework of the European Project MARCH,
Sofia Papadimitriou, Anastasia Andritsou

Positive Evaluation of an ODS case study leading to an innovative ISE e-learning module in Bavarian National Park, Thorn, C., J.

The effect of vertical jump exercise program in school setting: A pilot study, Gortsila, E., Patsiaouras, A.

Exploring science via studying building and sharing models,
Chiocciariello A., Pastore E.

Elaborating on the "Rosetta stone" demonstrator, Yoshinov, R., Kotseva, M.

Reflection of ISE idea for linking school education and scientific research in the National Strategy for effective implementation of ICT in education and science in the Republic of Bulgaria, Yoshinov, R., Kouzov, O., Pavlova, D.

Computer Lab
TEACHERS' TRAINING WORKSHOP

Babies & the moon: from misconceptions to discovering science
Dr Rosa Doran

Music Lab
TEACHERS' TRAINING WORKSHOP

Creations: The Global Science Opera initiative
Petros Stergiopoulos

11:20 - 12:20

12:20 - 14:00

14:00 - 15:00

15:00 - 17:00

17:00

END OF THE CONFERENCE

IN COOPERATION WITH:



LIGHT2015
PHOTONICS
DISCOVER THE POWER OF LIGHT

GoPhoton!
Photonics: Discover the Power of Light



WITH THE SUPPORT OF:



INTERNATIONAL CONFERENCE

inspiring SCIENCE

education

22-24.04.16

CONFERENCE PROGRAMME



ELLINOGERMANIKI AGOGI



FRIDAY
22.04.2016

F1 IN SCHOOLS CHALLENGE: NATIONAL FINALS (22-24/4). Ellinogermaniki Agogi is hosting the National Finals of the F1 in Schools Challenge. 30 school teams are designing the F1 model of the future: A unique STEM experience with the participation of more than 300 high school students. The award ceremony will take place on Sunday, 12.00-14.00. **(Ellinogermaniki Agogi Sports Hall)**



In the frame of the European project 'Schools: Future Labs' (<http://www.sflabs.eu>), which promotes the use of the CLIL (Content and Language Integrated Learning) methodology for the teaching and learning of foreign languages and STEM subjects, primary school students of the 5th and 6th grades at Ellinogermaniki Agogi will carry out **simple science experiments** and discuss about them with a committee of German university professors, specializing in the areas of Science Education and School Innovation.

15:00 - 17:30

Conference Registration

17:30 - 20:30

Conference welcome

Dr Vassilis Kourbetis, Head of the Office of European and International Educational Policy, Institute of Educational Policy, Greece

Conference Hall

OPENING SESSION: TECHNOLOGY ENHANCED SCIENCE EDUCATION: RESEARCH, POLICY, SUPPORT AND PRACTICE

(Chair: Dr Sofoklis Sotiriou)

- **FUTURE LABS Students CEREMONY**
- **Inspiring Science Education proudly presents HYPATIA: 2016 GOLC AWARD WINNER**

Bridging a Gap? (Green) Open Educational Resources

Prof Franz Bogner, University of Bayreuth, Germany

Spatial thinking: An alternative pathway to success in science

Prof Marinos Kavouras, National Technical University, Greece

Research challenges for Technology Enhanced STEM Education: Teaching and Learning Analytics for Personalized Learning Experiences and Reflective Teaching Practice

Prof Demetrios G. Sampson, School of Education, Curtin University, Australia

Science Education for Responsible Citizenship

Prof Costas P. Constantinou, University of Cyprus, Cyprus

The Detection of Gravitational Waves

Dr Chris North, School of Physics & Astronomy, Cardiff University, UK

20:30 - 21:30

Dinner (School Restaurant)

21:30 -

Observation Night at the School Observatory

SATURDAY
23.04.2016

10:00 - 11:40

Illustrating problem solving skills in ISE, Tiemann, R., Annaggar, A. & Langheinrich, J.

Conference Hall

COMPETENCE-BASED EDUCATION AND PROFESSIONAL DEVELOPMENT

(Chair: Dr Rosa Doran)

Enhancing Reading Comprehension of Students with Reading Difficulties or Dyslexia in the 3rd year of Primary School, by implementing Inquiry Based Science Education with Digital Technologies, Grigoriou, V., Smyrniou, Z.

Developing Key Competencies for Sustainable Development Among Science Teachers in Primary School, Aceska, N., Vuckovic, M.

Teacher Professional Development in Open Learning Environments,

Salmi, H., Kaasinen, A., Suomela, L., and Tuneberg, H.

Linking Spatial Thinking and Problem solving skills

Charcharos, C., Kokla, M., Tomai, E.

11:40 - 12:10

Coffee Break

12.10 - 14.00

Conference Hall
INSPIRING INFORMAL SCIENCE LEARNING

(Prof. Franz Bogner)

Inspiring science learning: making the invisible observable via Augmented Reality, Salmi, H.

Fostering connections among Improvisational Art and Science Education. The implementation of "Meaning Generating Trajectory", Kotsari, C., Smyrniou, Z.

Possibilities of a visit to the Science Centre and Planetarium pre visit - visit - post visit teaching and learning, Jokela, M.

Connecting Embodied Learning in educational practice to the realisation of science educational scenarios through performing arts, Smyrniou Z., Sotiriou M., Georgakopoulou E., Papadopoulou E.

Designing In-and-Outdoor Inquiry-based Learning, Tan, E., Stracke, C.M.

14:00 - 15:00

Lunch

15:00 - 16:40

Conference Hall
LIGHT TALKS: VIRTUAL EXPERIMENTS AND REMOTE LABS FOR TEACHING LIGHT PROPERTIES

(Chair: Dr Angelos Lazoudis)

Using light to enable communication technologies - Using communication technologies to teach photonics, Prof Hercules Avramopoulos

Quantum SpinOff: Connecting schools with high-tech research and entrepreneurship, Frans, R., Andreotti, E., and Tamassia, L.

Inquiry learning with Go-Lab, G. Mavromanolakis

Enquiring and learning about particles, x-rays and exoplanets, Boccato, C., Sandrelli, S., Bardelli, S.

CERN, Remote Telescopes, IceCube: The three Major Virtual Visits, Chotelis, J.

Coffee Break & Poster Presentation

Conference Hall
INSPIRING TEACHERS PRESENTATIONS

(Chair: Dr Stefanos Cherouvis)

Una bola de demolición llena de energía, Padín Romero, B.

Ecological Relationships, Nolan, C.

Equilibrium and balance, Nicolăiță, C.

ChemBot: an Interdisciplinary approach of Chemistry and Robotics, Karagiorgou, E. Spachos, V..

Signs of Seasons -Winter Case Study, Anunti, H.

A cor dos objetos', Gonçalves, J.

Climate change, Argyri, P.

1 Inspiring Science Education Ambassadors Meeting, 12:30-17:00, Chemistry Lab
Eugenia Kypriotis, Angelos Lazoudis, Stefanos Cherouvis

3 Reflections on European Science Education Academy, 17:30-19:00, Chemistry Lab
Thomas Fischer & Sofoklis Sotiriou

2 Creativity in Early Years Science Education: Focus on Nature of Science 15:00- 18:00, Arts & Crafts Room
Fani Stylianidou, Dimitris Rossis (Language: Greek)

Computer Lab
TEACHERS' TRAINING WORKSHOP

Astronomy and Astrology: Discover the difference using online science labs
Eleftheria Tsourlidaki

Computer Lab
TEACHERS' TRAINING WORKSHOP

Universal Design for Learning: Design lessons for all students, 14:00-16:40, Computer Room,
Nikos Zygouritsas

Seminar Room
INSPIRING ASTRONOMY EDUCATION

(Chair: Dr Sofoklis Sotiriou)

Using astronomy to teach physics, North, C.

From Earth, to the neighbourhood of stars, Baboura, A.

Following Curiosity on Mars, Garabet, M., Baldea, A.

Informal astronomy and space education in the constructivist environment, Jokini, I.