



## International Association “Hands-on Science”

### The International Workshop Science Education in School

October 11-14, 2007  
Hotel Capitol Bucharest, Romania

Workshop Chairs:

**Prof. Manuel Fillipe Costa**

University of Minho, Braga, Portugal

**Dr. Dan Sporea**

National Institute of Laser, Plasma and Radiation Physics – CSET, Romania

## Final Program

### Thursday 11 October

Timetable	Author	Paper
8.30 - 9.15		Participants registration
9.15 - 9.30	<b>Dan SPOREA</b>	Opening session
9.30 - 9.45	<b>Manuel COSTA</b>	Science Education in Elementary School. Science fairs
9.45- 10.15	<b>Fenna HANES</b>	PHOTON2: Optics/Photonics Education Using Web-based Learning
10.15 - 10.35	<b>Peggy CONNOLLY</b>	„...To Look at the Stars Always Makes Me Dream...” Nurturing the Passion for Science
10.35 - 11.00		<b>Coffee break</b>
11.00 - 11.20	<b>Ezcurra Gerard</b>	"Latest Developments in Data Collection in the Science Classroom: the Industry's Perspective"
11.20 - 11.40	<b>Manoj PATAIRIYA</b>	Participatory Model of Informal Science Education and Communication: An Indian Perspective
11.40 - 12.00	<b>Ayse OGUZ</b> <b>Kemal YURUMEZOGLU</b>	The Primacy of Observation in Inquiry-Based Science Teaching
12.00 - 12.20	<b>Oguz OZDEMIR</b>	A suggestion for creative science education - Science education through art
12.20 - 12.40	<b>Zerrin DOGANCA</b> <b>Ebru Z. MUGALOGLU</b>	Environmental Experiments at Primary School Level
12.40 - 13.00	<b>Mihaela IONESCU</b>	Gender Dimension in Teaching Science

<b>Timetable</b>	<b>Author</b>	<b>Paper</b>
13.00 - 14.30		<b>Lunch</b>
14.30 - 14.50	<b>Manuel COSTA</b>	School' Robotics
14.50 - 15.10	<b>Cinzia GRAZIOLI</b>	Cus-Mi-Bio: an Opportunity for Young People to Plan More Consciuous Future in Biosciences
15.10 - 15.25	<b>Dan SPOREA Adelina SPOREA</b>	Extra curricular science teaching in schools
15.25 - 15.40	<b>Iryna BEREZOVSKA</b>	Proper Choice of Cables to Connect to a Computer Network: from Simulation to Practice
15.40 - 15.55	<b>Clementina A. TIMUS</b>	Improving the Education by Fair Knowledge Transfer
15.55 - 16.10	<b>Silvia MORARU, Rodica CHERCIU Ioana STOICA</b>	Didactics between tradition and modernity
16.10 - 16.25	<b>Silvia MORARU, Rodica CHERCIU Ioana STOICA, Adriana SUSNEA Mihai CARLANARU</b>	Special Relativity
16.25 - 16.40	<b>Nilgun ERENTAY</b>	WETLANDS IN THE CLASSROOM Discovering Outdoor Wet Facts through Controlled Experiments Indoors
16.40 - 16.50	<b>Dan Sporea</b>	Journey to the early age hands-on experiences
17.30 - 20.00		<b>Workshop Welcome Party (Hotel Capitol - Restaurant)</b>

## **Friday 12 October**

<b>Timetable</b>	<b>Author</b>	<b>Paper</b>
9.00 - 9.25	<b>Pompea Stephen</b>	The <i>Hands-On Optics</i> Program: Appreciating the Role of Experimentation and Problem-Solving in Science Education
9.25 - 9.50	<b>Fenna HANES</b>	PHOTON Problem Based Learning (PBL): Using "Real-World" Problems to Develop Optic/Photonics Challenges for Students
9.50 - 10.10	<b>Ulrich H.P. FISCHER, Christian REINBOTH, Jens-Uwe JUST</b>	OPTOTEACH – A new hands-on approach for teaching polymer fiber optics and wavelength division multiplexing in schools and universities
10.10 - 10.30	<b>Stephen POMPEA</b>	Astronomy Education at the US National Optical Astronomy Observatory: A Portfolio of Sustainable Educational Experiments
10.30.- 11.00		<b>Coffee break</b>
11.00 - 11.20	<b>Gerhard W. POHL</b>	History of Science in Science Education

<b>Timetable</b>	<b>Author</b>	<b>Paper</b>
11.20 - 11.40	<b>Ana BEDALOV Mladen DOMAZET</b>	The Sky as a Gift
11.40 - 12.00	<b>Peggy CONNOLLY</b>	Celebrating Heritage: Using Technology to Reclaim Culture
12.00 -12.20	<b>Iryna BEREZOVSKA</b>	Simulation-based Instruction in Computer Networks
12.20 - 12.40	<b>Műjde Műge ATAMAN MORTAS</b>	ICT-Enriched Science Lessons "Science Education in Schools"
12.40 - 13.00	<b>Elena VLADESCU</b>	Development of the Optics Curriculum by Hands on Activities
13.00 - 14.30		<b>Lunch</b>
14.30 - 14.45	<b>Lawrence WILLIAMS</b>	The STAR Project - New Developments in On-line Secondary Science Education
14.45 - 15.00	<b>Catalina STANCA Mariela GHETEU, Nora GHEORGHIU</b>	Science education at "Radu Negru" highschool, Galați, Romania - an education for citizenship
15.00 - 15.15	<b>Carmen Liliana GHEAȚĂ Irinel Victoria ȚINTEA Violina DUGULEANU</b>	Nanotechnology - a challenge for Romanian secondary education
15.15 - 15.30	<b>Carmen BUCOVALĂ</b>	Project-based environmental education
15.30 - 15.45	<b>Rodica PERJOIU Magda URSULEAN Anca-Elena HARAGA</b>	A Pendulum Paradigm
15.45 -16.00	<b>Valerica IGNĂTESCU</b>	The Experiment – Fundamental Method in Studying Sciences in Secondary School
16.00 - 16.15	<b>Mihaela VAJAITU</b>	Hands-on experiments using the Physiology Educational Kit from Vernier International
16.15 - 16.30	<b>Crina ȘTEFUREAC</b>	Physics in "All Science Club"
16.30 - 16.45	<b>Maria ENACHE</b>	"Global Science" Club Activities within the club of education of quality in an European environment
16.45 - 17.00	<b>Liliana Violeta CONSTANTIN</b>	Interest for ever up-dating education methods
17.00 - 17.15	<b>Lucian Constantin VLADESCU</b>	Teaching Knowledge and Skills for Mathematics
17.15 - 17.30	<b>Dan SPOREA</b>	Closing Session

#### **Organizing Committee**

Dr. Adelina Sporea, Dr. Mirela Dinescu, Mrs. Crina Ștefureac