

International Conference

NEW PERSPECTIVES IN SCIENCE EDUCATION

Conference Programme

8 - 9 March 2012

Grand Hotel Mediterraneo

Lungarno del Tempio, 44 – Florence - Italy



Education and Culture DG

Lifelong Learning Programme



518300-LLP-2011-IT-COMENIUS-CNW

Thursday 8 March 2012

Room A 9:30 – 11:35	Room B 9:30 – 11:35
New Technologies for Science Teaching	Studies on Science Education

Coffee Break 11:35 - 11:45

Poster Session: 11:45 – 12:25

Room A 12:25 – 13:15	Room B 12:25 – 13:15
New Technologies for Science Teaching	Science Education Projects and Initiatives

Lunch 13:15 – 14:45

Poster Session: 14:45 – 15:15

Room A 15:15 – 17:20	Room B 15:15 – 17:20
New Technologies for Science Teaching	Science Teaching Methods

Coffee Break 17:20 – 17:30

Friday 9 March 2012

Room A 9:00 – 11:05	Room B 9:00 – 11:05
Enhancing Students' Motivation	Training of Science Teachers

Coffee Break 11:05 – 11:15

Poster Session: 11:15 – 12:00

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Studies on Science Education	Science Education Projects and Initiatives

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Science Teaching Methods	Science Education Projects and Initiatives

Coffee Break 17:20 – 17:30

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Thursday 8 March 2012

Morning Session: 9:00 – 13:00

Room A - 9:00 – 9:30

Introductory Speech, Practicalities and Ice Breaking Session

Room A 9:30 – 11:35

New Technologies for Science Teaching

Moderator: Magdalena Galaj - WSINF (Poland)

An Evaluation of using Web 2.0 Technologies to Develop International Science Study Partnerships Between Students in Africa, Europe and North America

Roger Cutting - Plymouth University (United Kingdom)

Science in Virtual Reality: Examples from the EUROVERSITY Network

Luisa Panichi - University of Hull (United Kingdom)

“The Hunt For Harald” – 3D Immersive Language and Culture Learning Through Gaming and Speech Recognition

Thomas K. Hansen - Resource Center for Integration (Denmark)

Development of Digital Educational Resources for Education for Sustainable Development: The Courseware Sere

Patrícia Sá - University of Aveiro (Portugal)

Enlightening Zoology Classification Using the Information Architecture Approach

Simona Butò - Junior High School S.Carlo Borromeo (Italy)

Room B 9:30 – 11:35

Studies on Science Education

Moderator: Philippe Remy - Haute Ecole Paul-Henri Spaak (Belgium)

Current and Future Methodologies for Improving Teacher and Student Experiences of Chemistry in Schools: an Irish Perspective

Marie Walsh - Limerick Institute of Technology (Ireland)

Changing the Culture of Science Education

Marco Vencato - Swiss Science and Technology Council (Switzerland)

The Level of Science Process Skills of Science Students

Murat Demirbaş - Graduate School of Natural and Applied Sciences (Turkey)

Teaching Values at School

Gabriele Harecker - Pädagogische Hochschule Niederösterreich University of Education (Austria)

Students' Motivation to Learn Chemistry: The Greek Case

Dionysios Koulougliotis - TEI of Ionian Islands (Greece)

Coffee Break 11:35 – 11:45

Poster Session: 11:45 – 12:25

Room A 12:25 – 13:15

New Technologies for Science Teaching

Moderator: Murat Demirbaş - Kırıkkale University, Education Faculty (Turkey)

A Study of the Application of the CASE Methodology into Second Level Science Lessons and the Evaluation of it's Effects on Students' Cognitive Development

Lorraine McCormack - Plymouth University (United Kingdom)

Scientific Visualization: a Promising Tool for Marine Habitats Management

Giovanni Landi - UBICA srl (Italy)

Room B 12:25 – 13:15

Science Education Projects and Initiatives

Moderator: Milena Koleva - Technical University of Gabrovo (Bulgaria)

X_Science: Communicating Science through Cinema and Science Fiction

Paolo Piccardo - University of Genoa (Italy)

Marilena Carnasciali - University of Genoa (Italy)

Sharing Good Practice Examples and Tips from European Science Education Projects: Scientix, Nanochannels,

UniSchoolLabS, XploreHealth and InGenious

Eloïse Gérard - European Schoolnet (Belgium)

Lunch 13:15 - 14:45

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Afternoon Session: 14:45 – 17:30

Poster Session: 14:45 – 15:15

Room A 15:15 – 17:20	Room B 15:15 – 17:20
New Technologies for Science Teaching <i>Moderator: Dionysios Koulougliotis - TEI of Ionian Islands (Greece)</i>	Science Teaching Methods <i>Moderator: Marie Walsh - Limerick Institute of Technology (Ireland)</i>
<p>Young Learners Accessing Digital Media to Supplement Experiences using 'The Internet of Things' <i>Oliver Quinlan - Plymouth University (United Kingdom)</i></p> <p>New Media-Driven Re-Discovery of Science, Technology and Society in the Information Age <i>On-Kwok Lai - Kwansei Gakuin University (Japan)</i></p> <p>Effectiveness of Flash-Based Summative Assessment Using the Anchor Items on the Learning Of Science <i>Yetti Supriyati - State University of Jakarta (Indonesia)</i></p> <p>Distance Learning Methodology Applied to a Technological Subject in Higher Education <i>Luis Mediero - Technical University of Madrid (Spain)</i></p> <p>GO - Mobility in Education (geo-referencing and experiment in context) <i>Luís Noivo - Rainha Santa Isabel School (Portugal)</i> <i>Paulo Ferreira - Rainha Santa Isabel School (Portugal)</i></p>	<p>Insights into Science Students' Problem-Solving Strategies in the Chemistry Laboratory <i>Orla Kelly - Plymouth University (United Kingdom)</i></p> <p>Tangible Visualization as Bridge for Barkhausen Effect <i>Gerald Tembrevilla - Okayama University Graduate School of Education (Japan)</i></p> <p>Knowledge Restructuring of Meaningful Learning and Rote Learning Groups in Selected Topics in General Chemistry using Constructivist's Approach <i>Carmencita G. Palanca - Palawan State University, College of Sciences (Philippines)</i></p> <p>Assessing the Influence of Student Oriented Instructional Setting on Performance of Science Students with Different Cognitive Engagement Orientation <i>Hassan H. Tairab - United Arab Emirates University (United Arab Emirates)</i></p> <p>Mind Maps and Scoring Scale for Environmental Gains in Science Education <i>Özgül Keleş - Aksaray University (Turkey)</i></p>

Coffee Break 17:20 – 17:30

End of the 1st Conference Day

International Conference

NEW PERSPECTIVES IN SCIENCE EDUCATION

Friday 9 March 2012

Morning Session: 9:00 – 13:15

Room A 9:00 – 11:05

Enhancing Students' Motivation

Moderator: Marilena Carnasciali - University of Genoa (Italy)

ICT in Physics Teaching for Secondary Schools and Colleges

Beata Jarosievitz - Dennis Gabor College, SEK Budapest International School (Hungary)

Evaluation of Students' Opinion for Enhancing Their Motivation in Learning Chemistry at Technical Universities

Lilyana Nacheva-Skopalik - Technical University of Gabrovo (Bulgaria)

Milena Koleva - Technical University of Gabrovo (Bulgaria)

DNA Notes

Gizem Merve Baykal - Terakki Foundation Schools Private Sisli Terakki High School (Turkey)

Improvement of Continuous Assessment in Large Groups.

Application to a Technological Subject in Higher Education

Alfredo Granados - Technical University of Madrid (Spain)

Environmental Projects to Motivate Science Learning in Primary Schools

Ioana Stoicescu - University of Bucharest (Romania)

Room B 9:00 – 11:05

Training of Science Teachers

Moderator: Roger Cutting - Plymouth University (United Kingdom)

Teacher Education Towards Sustainability: Strategies in Elementary Science

Alexander K. Lautensach - University of Northern British Columbia (Canada)

Beyond Quantitative Results towards Deep Understanding in Science Learning

Gabriela Nausica Noveanu - Institute of Educational Sciences (Romania)

Tutoring between Future Teachers Stakes and Perspective in a Potential Learning Process

Philippe Remy - Haute Ecole Paul-Henri Spaak (Belgium)

The Potential Problems that Pre-Service Science Teachers may Experience during Project Guidance in Turkey

Dilek Zeren Özer - Uludag University Elementary Science Education Department (Turkey)

Station Experiments for Effective Teaching in Physics

Demet Karakaş - Sisli Terakki Private School (Turkey)

Coffee Break 11:05 - 11:15

Poster Session: 11:15 – 12:00

Room A 12:00 – 13:15

Studies on Science Education

Moderator: Massimo Olivetto - University of Florence (Italy)

Strategies for Conceptual Change in School Science

John Paul Riordan - Canterbury Christ Church University (United Kingdom)

Participatory Process in Science Education Practices

Emilio Balzano - Università degli Studi di Napoli Federico II (Italy)

Assessment of the Turkish Teachers' Views on Making and Using Analogies in Teaching of Science

Burhan Akpınar - Firat University (Turkey)

Room B 12:00 – 13:15

Science Education Projects and Initiatives

Moderator: Mustafa Bayrakci - Sakarya University (Turkey)

Teachers' Views on the Practice of Project – Based

Learning Approach in Primary School Science Education

Yunus Doğan - Firat University (Turkey)

Early Childhood Education Student Teachers Cross the Cultural Borders Between Science and Shadow Theatre

Vasilis Tselfes - University of Athens (Greece)

Antigoni Paroussi - University of Athens (Greece)

Education Through Participation: The Role of Citizen Science in Marine Habitat Conservation

Martina Milanese - Studio Associato Gaia (Italy)

Lunch Break 13:15 - 14:45

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Poster Session: 14:45 – 15:15

Room A 15:15 – 17:20	Room B 15:15 – 17:20
Science Teaching Methods <i>Moderator: Alexander K. Lautensach - University of Northern British Columbia (Canada)</i>	Science Education Projects and Initiatives <i>Moderator: Luisa Panichi - University of Hull (United Kingdom)</i>
<p>Implementing Creative Drama and Game Based Activities to Attain Permanent Learning of the Subject “Nomenclature of Compounds” <i>Çiğdem Nilüfer Umar - Terakki Foundation Private Şişli Terakki High School (Turkey)</i></p> <p>Science and Technology Teachers’ Proficiency for Analogy-Making <i>Bahadır Köksalan - Inonu University (Turkey)</i></p> <p>Teachers' and Students' Requirements on Geomatics and Geoinformatics Education <i>Otakar Čerba - University of West Bohemia in Pilsen (Czech Republic)</i></p> <p>Moral Implementation Through Physical and Sports Education for Olympics <i>Mulyana - State University of Jakarta (Indonesia)</i></p>	<p>It’s Lab Time – Connecting Schools to Universities’ Remote Laboratories <i>Anne-Christin Tannhäuser - ScienTer (Italy)</i></p> <p>Small-Scale, Low-Cost Analytical Instruments Extended Opportunities for Learning Analytical Chemistry <i>Nataša Gros - University of Ljubljana (Slovenia)</i></p> <p>Analysis of Current Situation for Stress Prevention and Curriculum for Stress Prevention Activities of Road Transport Drivers and SME <i>Ivan Kolarov - Higher School of Transport (Bulgaria)</i></p> <p>A Study on Insecticide Potential of Sepiolite <i>Ahu Binici - Terakki Foundation Schools Private Sisli Terakki High School (Turkey)</i></p>

Coffee Break 17:20 – 17:30

End of the 2nd Conference Day

International Conference NEW PERSPECTIVES IN SCIENCE EDUCATION

Posters

<p>Teamteaching Chemistry: A Concept to Promote the Acquisition of Professional Knowledge in the Context of University Internships <i>Katja Riehm - Georg-August-Universität Göttingen (Germany)</i></p>	<p>Actimath: a Remedial Course in Mathematics Adapted to the Needs of the Student and their Chosen Field of Study <i>Annemie Vermeyen - KAHO Sint-Lieven (Belgium)</i></p>
<p>Polymer Laboratory: Teaching Polymer Chemistry <i>Olga Ferreira - Polytechnic Institute of Bragança (Portugal)</i> <i>Maria Filomena Barreiro - Polytechnic Institute of Bragança (Portugal)</i></p>	<p>How Students Can Understand Sampling Within Finite Populations in Statistics <i>Tanja Van Hecke - University College Ghent (Belgium)</i></p>
<p>13 Years of Street Physics: What We Have Learnt from Street Physics Activities in Taiwan <i>Chien-Ho Chou - National Kaohsiung Normal University (Taiwan)</i></p>	<p>Students' Misunderstanding of Galileo's Experiment on the Leaning Tower of Pisa <i>Yun-Ju Chiu - Chang Gung University (Taiwan)</i></p>
<p>Investigations of Interdisciplinary Learning in Teachers Training at University as Preparation for Interdisciplinary Teaching in School <i>Jennifer Blank - Justus-Liebig-University (Germany)</i></p>	<p>Self-Assessment and Differentiated Exercising as Promising Combination for Test Preparation – A Case Study <i>Karsten Fink - Georg-August-Universität Göttingen (Germany)</i></p>
<p>The Value of Chemistry in Students' Media Reception <i>Kai Wolf - Georg-August-Universität Göttingen (Germany)</i></p>	<p>POPUCH – Popularization of Chemistry <i>Hana Bartková - ICT Prague (Czech Republic)</i></p>
<p>A Case Study on Practising in Chemistry Lessons <i>Stephanie Mika - Georg-August-Universität Göttingen (Germany)</i> <i>Thomas Waitz - Georg-August-Universität Göttingen (Germany)</i></p>	<p>Analysis of an Experience of Problem Based Learning in a Physics Course of Technical Telecommunications Engineering Degree <i>Erica Macho-Stadler - Escuela Técnica Superior de Ingeniería de Bilbao (Spain)</i></p>
<p>A New Approach for the Generation of Dynamic Learning Environments <i>Ciro Gutierrez Ascanio - Universidad de Las Palmas de Gran Canaria (Spain)</i></p>	<p>Science Data Navigation Systems to Enhance Student's Motivation <i>Tomoko Kajiyama - Aoyama Gakuin University (Japan)</i></p>
<p>Small Particles – Big Impact: Nanomaterials in Chemistry Class <i>Timm Wilke - Georg-August-Universität Göttingen (Germany)</i></p>	<p>Teaching Modern Physics Considering Different Learning Styles of Students <i>Hande Özer - Sisli Terakki Private School (Turkey)</i></p>
<p>Analysing Technological Pedagogic Content Knowledge of Science Teacher Candidates According to Various Variables <i>Mehmet Barış Horzum - Sakarya University, Education Faculty (Turkey)</i> <i>Murat Demirbaş - Kırıkkale University, Education Faculty (Turkey)</i> <i>Mustafa Bayrakci - Sakarya University, Education Faculty (Turkey)</i></p>	<p>Making Chemistry an Attractive Subject for Lifelong Learning: Interactive Approach in Presenting Educational Content <i>Milena Koleva - Technical University of Gabrovo (Bulgaria)</i> <i>Lilyana Nacheva-Skopalik - Technical University of Gabrovo (Bulgaria)</i></p>
<p>Connectivism and University: Educational Synergies <i>Marco Pozzi - University of Florence (Italy)</i></p>	<p>Causal Explanation and Predictive Explanation in Primary Science Textbooks <i>Jun-Yi Chen - National Chiayi University (Taiwan)</i></p>
<p>The Use of Weblectures and its Effect on Learning in Higher and University Education <i>Johan Van den Bossche - University college KAHO-HUB (Belgium)</i></p>	<p>Popularizing Science via Science Demonstration Outreach Program <i>Ching Chi Chu - National Central University (Taiwan)</i></p>
<p>HEPPY Project. HEalthcare: Parents PathwaYs and Functional Profile <i>Sabrina Grigolo - Presidio Sanitario Gradenigo (Italy)</i></p>	

Virtual Presentations

(available on the conference web site)

<p>Teachers as Life-Long Learners. Quality Teacher-Quality Education? <i>Jana Petnuchová - Slovak University of Technology in Bratislava (Slovak Republic)</i> <i>Petra Stefkova - Slovak University of Technology in Bratislava (Slovak Republic)</i></p>	<p>Computer Simulations in Science Learning: Some Conclusions from the European Project "SPICE" <i>Daniel Aguirre-Molina - Colegio Pedro Poveda (Spain)</i></p>
<p>Enlightening Zoology Classification - a New Tutorial System for Computer Science and Telecommunication Engineering Students <i>Nuria Rico Castro - University of Granada (Spain)</i> <i>Pedro Ángel Castillo Valdivieso - University of Granada (Spain)</i> <i>Miguel Ángel Rubio Escudero - University of Granada (Spain)</i> <i>Patricia Paderewski Rodríguez - University of Granada (Spain)</i> <i>María Isabel García Arenas - University of Granada (Spain)</i> <i>Eva María Ramos Ábalos - University of Granada (Spain)</i> <i>Jesús García Miranda - University of Granada (Spain)</i> <i>Manuel Rodríguez Álvarez - University of Granada (Spain)</i></p>	<p>Greek High School Students' Biological Science Knowledge and Their Attitudes about Biotechnology and Biological Applications <i>Helen Andressa - National & Kapodistrian University of Athens (Greece)</i> <i>Konstantinos Gkagkavouzis - National & Kapodistrian University of Athens (Greece)</i> <i>Eleni Tsilivi - National & Kapodistrian University of Athens (Greece)</i> <i>Evangelia Mavrikaki - National & Kapodistrian University of Athens (Greece)</i></p>
<p>From the Study of the (Chemical) Solution to the (Mathematical) Concept of Ratio <i>Nadia Zamboni - Istituto comprensivo di Cogoletto (Italy)</i></p>	<p>Comparison of Primary Science Education in the Three EU countries <i>Monika Szimethová - Comenius University in Bratislava (Slovakia)</i> <i>Adriana Wiegerová - Tomas Bata University in Zlín (Czech Republic)</i></p>
<p>Students' Difficulties in Biology and Geology Project Work, in Portuguese Secondary Education <i>Ana Rola - University of Coimbra (Portugal)</i> <i>Isabel Abrantes - University of Coimbra (Portugal)</i> <i>Celeste Gomes - University of Coimbra (Portugal)</i></p>	<p>Using of ICT in Classroom – The Development of Students' Skills <i>Martin Podařil - Slovak University of Technology in Bratislava (Slovak Republic)</i> <i>Martina Klierová - Slovak University of Technology in Bratislava (Slovak Republic)</i> <i>Erika Záhorcová - Slovak University of Technology in Bratislava (Slovak Republic)</i></p>
<p>Concept of Non-exactness in Science Education <i>Ilya Levin - Tel Aviv University (Israel)</i></p>	



Conference Secretariat

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