

# Conference Programme

20 - 21 March 2014

Grand Hotel Mediterraneo

*Lungarno del Tempio, 44 – Florence - Italy*

## Thursday 20 March

Room A 9:35 – 10:50	Room B 9:35 – 10:50	Room C 9:35 – 10:50
Science Education Projects and Initiatives	Enhancing Students' Motivation	Studies on Science Education

Coffee Break 10:50 - 11:00

Poster Session: 11:00 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
Science Education Projects and Initiatives	Enhancing Students' Motivation	Studies on Science Education

Lunch 13:00 – 14:30

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 16:10
Curricula Session Planning	Enhancing Students' Motivation	Studies on Science Education

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 17:05

Room A 17:05 – 18:20	Room B 17:05 – 18:20	Room C 17:05 – 18:20
Science Education Resources and Activities	Enhancing Students' Motivation	Studies on Science Education

## Friday 21 March

Room A 9:10 – 10:50	Room B 9:10 – 10:50	Room C 9:10 – 10:50
New Technologies for Science Teaching	Science Teaching Methods	Studies on Science Education

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Training of Science Teachers	Science Education and Disabled People	Studies on Science Education

**Thursday 20 March 2014**

**Morning Session: 9:00 – 13:00**

**Room A 9:00 – 9:10**

**Introductory Speech and Practicalities**

**Opening Speech 09:10 – 09:30**

**A Vision and Plan for Science Education**  
*Brett Moulding - Ogden School District (United States)*

<b>Room A 9:35 – 10:50</b>	<b>Room B 9:35 – 10:50</b>	<b>Room C 9:35 – 10:50</b>
<b>Science Education Projects and Initiatives</b> <i>Moderator: Peter Childs</i> <i>University of Limerick (Ireland)</i>	<b>Enhancing Students' Motivation</b> <i>Moderator: Denise Estafan</i> <i>New York University College of Dentistry (United States)</i>	<b>Studies on Science Education</b> <i>Moderator: Siobhán O' Sullivan</i> <i>Cork Institute of Technology (Ireland)</i>
<p>TEMI: Teaching Enquiry with Mysteries Incorporated. An Insight from Ireland <i>Beulah McManus - University of Limerick (Ireland)</i></p> <p>Professional Learning of Partner Organizations while Participating in the European FP7 INQUIRE Project <i>Suzanne Kapelari - Universität Innsbruck, School of Education (Austria)</i></p> <p>European Cooperation Opportunities and Funds in the Field of Science Education <i>Elisabetta Delle Donne, Pixel (Italy)</i></p>	<p>Why Doing More Practical Work Does Not Necessarily Mean Enhanced Student Motivation <i>Ian Abrahams - University of Leeds (United Kingdom)</i></p> <p>Factors Influencing Undergraduate Students' Motivation to Study Science <i>Ghali Hassan - Griffith University (Australia)</i></p> <p><i>How to Transfer the Innovation Spirit in Schools or Universities. a One Day Innovation Business Game for Pupils and Students</i> <i>Börge Kummert - FH Campus02, Stg. Innovationsmanagement (Austria)</i></p>	<p>Science and Engineering Students as Teaching Assistants in High Schools: the "Educational Clinic" Program <i>Aharon Gero – Technion, Israel Institute of Technology (Israel)</i></p> <p>Identifying Pedagogical Functions in University Science and Engineering Lectures <i>Nilson Kuniooshi - Waseda University (Japan)</i></p> <p>Introducing Entrepreneurship Thinking into STEM Curriculum through Hands-on Projects <i>Hua Li - Texas A&amp;M University-Kingsville (United States)</i></p>

**Coffee Break 10:50 – 11:00**

**Poster Session: 11:00 – 11:45**

<b>Room A 11:45 – 13:00</b>	<b>Room B 11:45 – 13:00</b>	<b>Room C 11:45 – 13:00</b>
<b>Science Education Projects and Initiatives</b> <i>Moderator: Aharon Gero</i> <i>Technion Israel Institute of Technology (Israel)</i>	<b>Enhancing Students' Motivation</b> <i>Moderator: Ian Abrahams</i> <i>University of Leeds (United Kingdom)</i>	<b>Studies on Science Education</b> <i>Moderator: Suzanne Kapelari</i> <i>Universität Innsbruck, School of Education (Austria)</i>
<p>Copyright Literacy in Memory Institutions: Findings from Scientific Project in Bulgaria <i>Tania Todorova - State University of Library Studies and Information Technologies (Bulgaria)</i></p> <p>The New Reality of Intellectual Property at the State University of Library Studies and Information Technologies: Project Initiatives <i>Tereza Trencheva - The State University of Library Studies and Information Technologies (Bulgaria)</i></p> <p>The Educational Function of the Library <i>Sabina Eftimova - State University of Library Studies and Information Technologies (SULSIT) (Bulgaria)</i></p>	<p>Initiating Learning through Innovative Technological Advances <i>Denise Estafan - New York University College of Dentistry (United States)</i></p> <p>Achieving Excellence in Students' Learning Using New Technology <i>Michele Harutunian - New University College of Dentistry (United States)</i></p> <p>Challenging Students with CAD/CAM Technology Going Beyond the Comfort Zone of Senior Students <i>Angela De Bartolo - New University College of Dentistry (United States)</i></p>	<p>To Determine and Overcome Biological Misconceptions Held by Students and Educators in the Irish Schooling System <i>Elaine Galvin - University of Limerick (Ireland)</i></p> <p>Towards Learner Centred Science Lessons in Zambia: An Experience of Problem Solving Approach in Biology Lessons <i>Benson Banda - Ministry of Education (Zambia)</i></p> <p>Engaging Students in Gathering, Reasoning, and Communicating through Evidence: Findings from the Partnership for Effective Science Teaching and Learning <i>Brett Moulding - Ogden School District (United States)</i></p>

**Lunch 13:00 - 14:30**

## Thursday 20 March 2014

### Afternoon Session: 14:30 – 18:20

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 16:10
<p><b>Curricula Session Planning</b> Moderator: Tania Todorova State University of Library Studies and Information Technologies (Bulgaria)</p>	<p><b>Enhancing Students' Motivation</b> Moderator: Brett Moulding Ogden School District (United States)</p>	<p><b>Studies on Science Education</b> Moderator: Tereza Trencheva The State University of Library Studies and Information Technologies (Bulgaria)</p>
<p>Science Curriculum for the Most Marginalized Children in India <i>Prema Rangachary - Vidya Vanam School for Tribal and Underprivileged Children (India)</i></p> <p>Analyses of Secondary School Science Curricula According to Quantum Paradigm <i>Çetin Tan - Siirt University Faculty of Education (Turkey)</i></p> <p><i>Change and Development in Environmental Engineering Education in Libya</i> <i>Waled Astiata, Tripoli University (Libia)</i></p> <p>Whole Human Paradigm and View of Holistic Curriculum <i>Faysal Özdaş - Mardin Artuklu University (Turkey)</i></p>	<p>Enhancing Scientific Thinking in Children: Suggestions Based on Studies about Creativity <i>Roberta Cardarelo - University Modena and Reggio Emilia (Italy)</i></p> <p>Use of Pre-service Science Teacher Creativity in Elementary Science Classrooms <i>Esme Hacieminoglu - Necmettin Erbakan University (Turkey)</i></p> <p>Development of Children's Communicative Competence through Drama-Activity: Attitude of Teachers <i>Giedre Straksiene - Klaipeda University (Lithuania)</i></p> <p>Students' Use of Analogies in Making Predictions of Novel Situations <i>Nikolaos Fotou - University of Leeds, School of Education (United Kingdom)</i></p>	<p>Use of e-Portfolios in Undergraduate Education and a Postgraduate Research Training Programme, ED4LIFE <i>Siobhán O' Sullivan - Cork Institute of Technology (Ireland)</i></p> <p>Creative Coding: a Unique Pedagogical Model for Teaching Computer Science to Artists <i>Ajay Kapur - California Institute of the Arts (United States)</i></p> <p>The Effect of Visual Materials Usage on Increasing Motivation in Primary School Art Lessons <i>Yelda Usal - Firat University Dept. of Education (Turkey)</i></p> <p>The Analysis of Art Teacher Candidates' Motivation and Anxiety Patterns with Regards to Different Variant <i>İsmail Aytaç - Firat University Dept. of Education (Turkey)</i></p>

### Coffee Break 16:10 – 16:20

### Poster Session: 16:20 – 17:05

Room A 17:05 – 18:20	Room B 17:05 – 18:20	Room C 17:05 – 18:20
<p><b>Science Education Resources and Activities</b> Moderator: Till Bergmann Karlsruhe Institute of Technology (KIT) (Germany)</p>	<p><b>Enhancing Students' Motivation</b> Moderator: Børge Kummert FH Campus02, Stg. Innovationsmanagement (Austria)</p>	<p><b>Studies on Science Education</b> Moderator: Maeve Liston Mary Immaculate College and the National Centre for Excellence in Mathematics &amp; Science Teaching &amp; Learning (Ireland)</p>
<p>Activities on Photovoltaic Potential <i>Francesca Taponecco - EURAC Research (Italy)</i></p> <p>A Novel Blended Learning Environment For Sustainable Energy Management – First Evaluation Results <i>Ilse Bartosch, Roswitha Avalos Ortiz - University of Vienna (Austria)</i></p> <p>A Study on Primary School Students' Understandings of Energy Concepts <i>Mehmet Yilmaz - Ataturk University (Turkey)</i></p>	<p>Context-based Science Education by Newspaper Story Problems and other Authentic Learning Activities: A Research Program on Motivation and Learning Effects <i>Mueller Andreas – Université de Genève (Switzerland)</i></p> <p>Learning Science through the Conception of Comics: the SARABANDES Research Project <i>Cecile de Hosson, Nicolas Decamp - LDAR – EA 1547, Université Paris Diderot (France)</i> <i>Laurence Bordenave - Association Stimuli (France)</i></p>	<p>The In-Service Training Needs Analysis of Non-Specialist Physics Teachers in Saudi Arabia <i>Yousef Alhaggass - Victoria University (Australia)</i></p> <p>Candidates of Mathematics Teacher's Opinions about the Investigation of Influence of Visual Approach on University Students' Academic Achievement in Physics Courses <i>Bahattin Duzgun - Ataturk University (Turkey)</i></p> <p>The Relationship Between Physics and Mathematics Lessons <i>Esra Macit - Inonu University (Turkey)</i></p>

**End of the 1<sup>st</sup> Conference Day**

## Friday 21 March 2014

### Morning Session: 9:10 – 13:00

Room A 9:10 – 10:50	Room B 9:10 – 10:50	Room C 9:10 – 10:50
<b>New Technologies for Science Teaching</b> Moderator: Ilse Bartosch University of Vienna (Austria)	<b>Science Teaching Methods</b> Moderator: Neeraja Raghavan Azim Premji University (India)	<b>Studies on Science Education</b> Moderator: Edward Tindi Ministry of Education (Zambia)
<p>"NANO" – An Attractive Dimension for School Chemistry Education  <i>Timm Wilke - Department of Chemistry Didactics, Georg-August-University (Germany)</i></p> <p>Silica-Based Nanomaterials in Chemistry Education  <i>Thomas Waitz - Department of Chemistry Didactics, Georg-August-University (Germany)</i></p> <p>Efficiency of Virtual Experiment in Elementary Chemical Education  <i>Jasna Adamov - Faculty of Sciences and Mathematics, University of Novi Sad (Serbia)</i></p> <p>The Effect of Small-Scale Chemistry Experimentation on Undergraduate Students' Chemistry Achievement, Attitude and Motivation  <i>Gebrekidan Tesfamariam - Department of Chemistry, Norwegian University of Science and Technology (Norway)</i></p>	<p>How to Communicate Science with Secondary Science Teachers? Bridging Science Education with Science Research  <i>Nicolas Robin - University of Teacher Education St. Gallen (Switzerland)</i></p> <p>Dealing with Model-centered Instruction: from Discourse Acquisition to Lesson Plan Design  <i>Isabel Jiménez Bargalló, Jordi Martí Feixas - Universitat de Vic (Spain)</i></p> <p>Tutorial Methods in a Distance Study Course on Qualitative Empirical Education Research  <i>Karin Krey - FernUniversität in Hagen (Germany), Wencke Bauhaus - Department of Educational Science FernUniversität in Hagen (Germany)</i></p> <p>How Students Learn to Teach Cosmology  <i>Jan Novotny - Masaryk University (Czech Republic)</i></p>	<p>"The Idiots Named the South North, and the North, South": Co-construction of Science Culture and Negotiation of Science Aligned Identities in the Classroom  <i>Lilian Pozzer Ardenghi - University of Manitoba (Canada)</i></p> <p>Students' Conceptions about Natural Selection – How Task Contexts Influence Evolution Assessment  <i>Holger Weitzel, Ulrike Betzitza - University of Education Weingarten (Germany)</i></p> <p>Factors Affecting the Development of Science Process Skills in the Students of the Middle School  <i>Renan Seker - Necmettin Erbakan University (Turkey)</i></p> <p>Water in a Changing World: Developing Learning Materials for Pre-Professional Teachers in Brazil and the United States  <i>Michael Taber, Colorado College (United States)</i></p>

### Coffee Break 10:50 – 11:00

### Poster Session: 11:00 – 11:45

Room A 11:45 – 13:00	Room B 11:45 – 13:00	Room C 11:45 – 13:00
<b>New Technologies for Science Teaching</b> Moderator: Eduardo Montero Universidad de Burgos (Spain)	<b>Science Teaching Methods</b> Moderator: Mueller Andreas Université de Genève (Switzerland)	<b>Studies on Science Education</b> Moderator: Jasna Adamov University of Novi Sad (Serbia)
<p>Virtual Reality Educational Games: a Case Study in Large Scale Particle Physics Research  <i>Till Bergmann - Karlsruhe Institute of Technology (KIT) (Germany)</i></p> <p>Investigating Creative Inquiries with Tablet-Cloud Systems in Elementary Science  <i>Nathalie Hack - University of Luxembourg Interdisciplinary Centre for Security, Reliability and Trust (Luxembourg)</i></p> <p>Teachingearthscience: A Website for Teachers  <i>Lorenzo Lancellotti - School of Science and Technology, Geology Division, University of Camerino (Italy)</i></p>	<p>Are PISA Science Questions Authentic according to Pupils and Teachers?  <i>Laura Weiss - IUFÉ - Université de Genève (Switzerland)</i></p> <p>Adaptability of TIMSS Study for Developing Country: A Case study in Mymensingh, Bangladesh  <i>Taro Kawahara - Hiroshima University (Japan)</i></p> <p>Challenges to Establish Internal Quality Assurance with an Information System to Create Self-assessment Reports  <i>Masao Mori - Office of Institutional Research, Kyushu University (Japan)</i></p>	<p>Impact of Emerging Web Technologies on Undergraduate Medical Education Process in Tabuk University  <i>Amina Unis, Reham Ali Khubrani, Amirah AlHweti - Faculty of Medicine, University of Tabuk (Saudi Arabia)</i></p> <p>Biotechnology Background of Science Teachers in Turkey  <i>Evrin Öcal - Inonu University (Turkey)</i></p> <p>The Perception of 8th Class Students against Vaccination in Science Lesson  <i>Yasemin Kuruca - Inonu University (Turkey)</i></p>

### Lunch 13:00 – 14:30

## Friday 21 March 2014

**Afternoon Session: 14:30 – 18:50**

<b>Room A 14:30 – 16:10</b>	<b>Room B 14:30 – 16:10</b>	<b>Room C 14:30 – 16:10</b>
<b>Training of Science Teachers</b> Moderator: Ivor Hickey <i>The Leonardo Effect (United Kingdom)</i>	<b>Science Teaching Methods</b> Moderator: Nicolas Robin <i>University of Teacher Education St. Gallen (Switzerland)</i>	<b>Studies on Science Education</b> Moderator: Lara Albanese <i>Associazione GOOGOL (Italy)</i>
Developing Pre-service Primary School Teachers' Conceptual Understanding of Energy and Forces <i>Maeve Liston - Mary Immaculate College and the National Centre for Excellence in Mathematics &amp; Science Teaching &amp; Learning (Ireland)</i>	Breaking the Vicious Cycle in Chemistry Education <i>Peter Childs - University of Limerick (Ireland)</i>	A Review of Foundation Chemistry Teaching and Learning Material in a Four Year Engineering Programme <i>Nadine Dharsey, University of Johannesburg (South Africa)</i>
Pre-service Classroom Teachers' Science Teaching Efficacy Beliefs and their Locus of Control Status <i>Sule Bayraktar - Necmettin Erbakan University Ahmet Kelesoglu Faculty of Education (Turkey)</i>	Mathematical Models in Chemistry Lessons <i>Ines Schmidt - University of Kassel, Didactics of Chemistry (Germany)</i>	The Relationship Between 5 <sup>th</sup> Grade Student's Scientific Process Skills and Attitudes Toward the "Science" Lesson (Sampling Malatya) <i>Sümeysra Akkaya - Inonu University (Turkey)</i>
Correct the Deficiency of Pre-service Physics Teachers' Knowledge with Differentiated Instruction <i>Umit Turgut - Ataturk University, Kazım Karabekir Faculty of Education (Turkey)</i>	Development of Blended Learning Units for an Introductory Course in Chemistry <i>Kai Wolf - Department of Chemistry Didactics, Georg-August-Universität (Germany)</i>	Effect of Conceptual Change Instruction on Students' Understanding of Electricity Concepts <i>Refik Dilber - Ataturk University, K. K. Education Faculty, Dept. of Physics (Turkey)</i>
Evaluation of Environmental Attitudes: Pre-service Teachers <i>Serdar Aydın - Ataturk University (Turkey)</i>		Compilation on Metacognition Concept <i>Ayşenur Kuloğlu - Firat University Faculty of Education (Turkey)</i>

**Coffee Break 16:10 – 16:20**

### Poster Session: 16:20 – 17:05

<b>Room A 17:05 – 18:20</b>	<b>Room B 17:05 – 18:20</b>	<b>Room C 17:05 – 18:20</b>
<b>Training of Science Teachers</b>	<b>Science Education and Disabled People</b> Moderator: Kazuyoshi Nakai <i>Ministry of Education (Zambia)</i>	<b>Studies on Science Education</b> Moderator: Masao Mori <i>Office of Institutional Research, Kyushu University (Japan)</i>
	The Multiple Languages of Mathematics and Children with Disabilities <i>Lara Albanese - Associazione GOOGOL (Italy)</i>	Facilitating Conceptual Change in Teachers: a Study <i>Neeraja Raghavan - Azim Premji University (India)</i>
	Schools for All <i>Belkis Garip, Dilber Demirtaş - Middle East Technical University (Turkey)</i>	Budget and Expenditure Trends in the Public Health Sector of Pakistan <i>Asma Salman, American University in the Emirates (United Arab Emirates)</i>
	Perception of Visually Impaired Students Equal Sign and Equality <i>Ümmügülsüm Cansu - Middle East Technical University (Turkey)</i>	

### Closing Speech: 18:25 – 18:50

Science Education: a Look into the Future  
 Ivor Hickey - *The Leonardo Effect (United Kingdom)*

**Cocktail 19:00 – 19:30**

## Posters

<p>Analyzing the Features of Solving the Science Problems by Proficiency Levels of Middle School Students in Korea <i>Jaeho Sim, Inho Lee - Korea Institute for Curriculum and Evaluation (Republic of Korea)</i> <i>Wonho Choi, Sunchon National University (Republic of Korea)</i> <i>Young-shin Park, Chosun University (Republic of Korea)</i></p>	<p>A WebQuest on Alkali Metals <i>Benjamin Heuer, Kai Wolf, Thomas Waitz - Georg-August-University (Germany)</i></p>
<p>Case Study of Teamwork Coordination in Teaching Energy Engineering Sciences <i>María Jesús González-Fernández, Eduardo Montero - Universidad de Burgos</i> <i>Department of Electromechanical Engineering (Spain)</i></p>	<p>Chemistry Content Knowledge of University Freshmen: A Relevant Aspect for the Design of Introductory Chemistry Courses <i>Maximilian Konrad, Kai Wolf, Thomas Waitz - Georg-August-University (Germany)</i></p>
<p>CLIL Science Teaching – Progression of Scientific Inquiry by the Use of Selective Scaffolding <i>Marisa Rimmel - University of Education Weingarten - Department of Didactics of Biology (Germany)</i></p>	<p>Conceptual Change Activities of Light Rays by the Learning Cycle Model Approach <i>Yun-Ju Chiu - Chang Gung University (Taiwan)</i></p>
<p>Development of Skills Necessary for Public Communication of Science within an Undergraduate Health Science Curriculum <i>Andrew M. Petzold - University of Minnesota Rochester (United States)</i></p>	<p>Does Online CPD Programme Work - a Saudi Case <i>Suliman Binmohsen - Leeds University (United Kingdom)</i></p>
<p>Effect of Concept Map Use on Attitudes Regarding General Biology Course <i>Bilgi Başak Özgün - İnönü Üniversitesi (Turkey)</i></p>	<p>From Sunscreen to Solar Cell - A Science Outreach Project Connecting School and University <i>Johanna Schakowske, Thomas Waitz - Georg-August-University (Germany)</i></p>
<p>From Surfactants to Membranes – a Science Outreach Project Connecting School and University <i>Anne Steinkuhle, Thomas Waitz - Georg-August-University of Göttingen (Germany)</i></p>	<p>How Students Learn to Teach Cosmology <i>Jindriska Svobodova, Jan Novotny - Masaryk University Brno (Czech Republic)</i></p>
<p>Lesson Study Practice of Science Teachers in Zambia: Its Effects, Enhancing and Hindering Factors <i>Vincent Mudenda, Edward Tindi, Benson Banda, Kazuyoshi Nakai - Ministry of Education (Zambia)</i></p>	<p>Narrative Based Medicine, Parents Pedagogy and International Classification of Functioning (who, 2001). A Multidisciplinary and Integrated Approach for People Care <i>Sabrina Grigolo - Gradenigo Hospital SIPEM ASSIF (Italy)</i></p>
<p>Science Education in Out-of-School Contexts <i>David-S. Di Fuccia, Ines Schmidt - University of Kassel, Didactics of Chemistry (Germany)</i></p>	<p>Students' Perceptions about Quality of Teaching Performance of Faculty Members in Science College at King Saud University <i>Jabber Aljabber - College of Education King Saud University (Saudi Arabia)</i></p>
<p>The Analysis of the Development Level of Physics Concepts by Students' Proficiency Levels <i>Inho Lee - Korea Institute for Curriculum and Evaluation ( Republic of Korea)</i></p>	<p>The Features of Solving the Biology Problems by Proficiency Levels of 9 Grade Korean Students <i>Jaeho Sim - Korea Institute for Curriculum and Evaluation (Republic of Korea)</i></p>
<p>The Role of Virtual Lab in Professional Training for Pre-service Biology Teachers and Engineers Student <i>Vladislav Savov - Technical University of Sofia (Bulgaria)</i></p>	<p>The Use of Rubric-Based Method to Assess Skill's Development. A Case Study in Science and Engineering Courses <i>María Jesús González-Fernández,, Eduardo Montero - Universidad de Burgos</i> <i>Department of Electromechanical Engineering (Spain)</i></p>
<p>What Korean Students of Grade 9 Know in Chemistry <i>Wonho Choi - Sunchon National University (Republic of Korea)</i></p>	

## Virtual Presentations

(Available on the Conference Website)

<p><b>A Case Study on the Development of Pedagogical Content Knowledge on Electric Force through a Longitudinal Study</b> <i>Lina Viviana Melo Niño, Florentina Cañada, Vicente Mellado Jiménez - Department of Science and Mathematics Education, University of Extremadura (Spain)</i> <i>Mabel Díaz, Colegio Santa María (Colombia)</i></p>	<p><b>A Way of Boosting Students' Interest in Statistics: Approach and Results</b> <i>Daniel Palací - Universidad Politécnica de Valencia (Spain)</i> <i>Jesús Palací - Nanophotonics Technology Center, Universidad Politécnica de Valencia (Spain)</i> <i>Maria Isabel López Rodríguez - Economic Faculty, Universitat de València (Spain)</i></p>
<p><b>Chemical Safety: Knowledge, Attitude and Practices of Science Teachers</b> <i>Samina Malik - International Islamic University (Pakistan)</i></p>	<p><b>Development of LMS-based Teaching Materials for the Preparation of Chemistry Lab Courses: Principles for the Design of Conducive Learning Environments</b> <i>Lotte Bautzmann, Jennifer Kölling, Kai Wolf, Thomas Waitz - Georg-August-University (Germany)</i></p>
<p><b>Does Homework Increase Students' Autonomy?</b> <i>Floriana Battaglia, Lucio Bontempelli - University of Pisa (Italy)</i></p>	<p><b>Enhancing Mathematical Understanding through an Optimization Problem of Delay at Fixed-cycle Traffic Lights</b> <i>Tanja Van Hecke - University Ghent (Belgium)</i></p>
<p><b>Environmental Education Studies: an Epistemological and Conceptual Perspective about Environment</b> <i>Iluska Lobo Braga, Jeoval Batista da Silva, Flávio de São Pedro Filho, José Moreira da Silva Neto - Postgraduation Program in Administration by the Federal University of Rondônia (Brazil)</i></p>	<p><b>Ethical Issues in Chemical Education. Evaluating Daily Life Products</b> <i>Teresa Celestino - University of Camerino, School of Advanced Studies (Italy)</i></p>
<p><b>Exploring the Influence of Argumentation on Epistemological Views of Science</b> <i>Christine V. McDonald - Griffith University (Australia)</i></p>	<p><b>Impact of "Relation with Learning" on Scientific Conceptions and Knowledge among Gymnasium Pupils</b> <i>Emmanuella Di Scala-Fouchereau - CIMEOS laboratory - University of Burgundy/ESPE Dijon (France)</i> <i>Philippe Ricaud - CIMEOS Laboratory - University of Burgundy (France)</i> <i>Nathalie Pinsard, Robert Andres - ESPE Bourgogne (France)</i></p>
<p><b>Improving the Efficacy of Questioning Techniques in Science Teachers' Inquiry Instruction</b> <i>Zheng Zhu, Xin Xin Fan - University of Queensland (Australia)</i></p>	<p><b>Inspirations from Scientists and Engineers Who Are Blind and Visually Impaired - Lessons to Initiate New Direction for Science Education of Blind Students in Nigeria</b> <i>Sariat Adalakun - University of Birmingham (United Kingdom)</i></p>
<p><b>Junior Science - Nurturing Children's Interest in Scientific Knowledge</b> <i>Flora Teixeira e Costa - Centro de Química da Universidade do Minho Campus de Gualtar (Portugal)</i> <i>Helena Pratas - CEIA - Centro de Estudos e Investigação Aplicada Instituto Superior de Educação e Ciências (Portugal)</i> <i>Ana Paramés - Instituto Superior de Educação e Ciências, Alameda das Linhas de Torres (Portugal)</i></p>	<p><b>Right Assessment of Teachers Key of Success in Learning Process – Action Research</b> <i>Violeta Buza - Faculty of Education, University of Prishtina Kosova (Albania)</i></p>
<p><b>Social Media Technologies in Distance Learning: New Capabilities for Future Higher Education</b> <i>Gianluca Gigante - Freelance (Italy)</i></p>	<p><b>Social Networks to Improve Education: Empirical Analysis</b> <i>Joan-Francesc Fondevila-Gascón - Universitat Abat Oliba CEU and CECABLE (Spain)</i> <i>Marta Carreras-Alcalde - CECABLE (Spain)</i> <i>Lluís Feliu-Roé - Universitat de Girona (Spain)</i> <i>María-Jesús Pesqueira-Zamora, Carmen Ruiz-Viñals - Universitat Abat Oliba CEU (Spain)</i></p>
<p><b>The Effective Teacher as a "Reflective Practitioner"</b> <i>Gina Chianese - Libera Università di Bolzano (Italy)</i></p>	<p><b>Using Visual Materials in Teaching Vocabulary in English as a Foreign Language Classrooms with Young Learners</b> <i>Dorela Kaçauri Konomi - "Fan S. Noli" University (Albania)</i></p>
<p><b>Women's Awareness towards Good Shopping for Clothes</b> <i>Ebtessam Ibrahim Mohammed Salim - Faculty of Specific Education, Alexandrian University (Egypt)</i></p>	