

Conference Programme

17 - 18 March 2016

Grand Hotel Mediterraneo
Lungarno del Tempio, 44 – Florence – Italy





Thursday 17 March

Room A 9:35 – 10:50	Room B 9:35 – 10:50	Room C 9:35 – 10:50
Enhancing Chemistry Students' Motivation	Enhancing Students' Motivation	Curricula Session Planning

Coffee Break 10:50 - 11:00

Poster Session: 11:00 – 11:20

Room A 11:20 – 13:00	Room B 11:20 – 13:00	Room C 11:20 – 13:00
Enhancing Maths Students' Motivation	Science Teaching Methods	Science Education and Special Needs

Lunch 13:00 – 14:30

Room A 14:30 – 16:35	Room B 14:30 – 16:35	Room C 14:30 – 16:35
Enhancing Students' Motivation	Training of Science Teachers	Science Education and Interdisciplinarity

Coffee Break 16:35 – 16:45

Poster Session: 16:45 – 17:05

Room A 17:05 – 18:45	Room B 17:05 – 18:45	Room C 17:05 – 18:45
Science Teaching Methods	Training of Science Teachers	Outdoor Science Education

Friday 18 March

Room A 9:10 – 10:50	Room B 9:10 – 10:50	Room C 9:10 – 10:50
New Technologies for Science Teaching	Enhancing Physics Students' Motivation	Studies on Science Education

Coffee Break 10:50 - 11:00

Poster Session: 11:00 – 11:20

Room A 11:20 – 13:00	Room B 11:20 – 13:00	Room C 11:20 – 13:00
Science Teaching Methods	Science Education Projects and Initiatives	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
Science and Language	Enhancing Students' Motivation	Studies on Science Education

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 18:20	Room B 17:05 – 18:20	Room C 16:40 – 18:20
Training of Science Teachers	Science Education Projects and Initiatives	Studies on Science Education



Thursday 17 March 2016

Morning Session: 9:00 – 13:00

Room A 9:00 – 9:10

Introductory Speech and Practicalities

Opening Speech 09:10 – 09:30

Innovation in Science Education: A European Perspective

Monique Longo - APRE, Agency for the Promotion of European Research (Italy)

Room A 9:35 – 10:50	Room B 9:35 – 10:50	Room C 9:35 – 10:50
<p>Enhancing Chemistry Students' Motivation <i>Moderator: Suzanne Kapelari, University of Vienna (Austria)</i></p>	<p>Enhancing Students' Motivation <i>Moderator: Joseph Walsh, Institute of Technology Tralee (Ireland)</i></p>	<p>Curricula Session Planning <i>Moderator: Jan-Eric Mattsson, Södertörn University (Sweden)</i></p>
<p>Nanoscience Education: Perspectives, Concepts and Experiments for School Chemistry <i>Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p>	<p>Pair-Mentoring: A Project to Improve the Achievement and Attitude in Science of Students Aged 16 in England <i>Rachael Sharpe - Nikolaos Fotou - Ian Abrahams, University of Lincoln (United Kingdom)</i></p>	<p>Creating an Integrated Curriculum for a STEM Discipline <i>Douglas Higgison, Oxford Brookes University (United Kingdom)</i></p>
<p>What Students Think and How They Really Perform in Chemistry <i>Ross Hudson, Australian Council for Educational Research (ACER) (Australia)</i></p>	<p>SciChallenge: Using Student-Generated Content and Contests to Enhance the Interest for Science Education and Careers <i>Sabri Pllana, Linnaeus University (Sweden)</i></p>	<p>Exploring Curricular Reform in Science Education and Practitioner Pedagogical Transitions-Seeking Solutions to Policy and Practice Dichotomies <i>Miriam Hamilton, Mary Immaculate College, Limerick (Ireland)</i></p>
<p>Business and Chemistry – a Project for Undergraduate Students <i>Marie Walsh, Limerick Institute of Technology (Ireland)</i></p>	<p>Motivational Decline in Higher Education STEM Courses and its Association with Student Demographics <i>Anna Young - Paul Wendel - Joan Esson - Kathryn Plank, Otterbein University (United States)</i></p>	<p>Knowledge Management Framework to Enable Effective Curriculum Development and Self-determined Learning <i>Vincent Kuo, Aalto University (Finland)</i></p>

Coffee Break 10:50 – 11:00

Poster Session: 11:00 – 11:20

Room A 11:20 – 13:00	Room B 11:20 – 13:00	Room C 11:20 – 13:00
<p>Enhancing Maths Students' Motivation <i>Moderator: Douglas Higgison, Oxford Brookes University (United Kingdom)</i></p>	<p>Science Teaching Methods <i>Moderator: Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p>	<p>Science Education and Special Needs <i>Moderator: Kathryn Plank, Otterbein University (United States)</i></p>
<p>Discovering the Magic of Mathematics: Mathematicians <i>Adel A. Sharif, California State University (United States)</i></p>	<p>SwitchOnSTEM.ie Resources to Support Higher Education Engagement Activities <i>Julie Dunne, Dublin Institute of Technology (Ireland)</i></p>	<p>Neurodiversity and Special Needs: How to Support a Positive Learning with Students <i>Eleonora Palmieri, Centro Studi Itard - Airone, Psychological and Pedagogical Victor Center (Italy)</i></p>
<p>Evaluation of the Effect of Mathematical Routines on the Development of Mathematical Problem Skills and School Motivation of the Primary School Students in Abitibi-Témiscamingue <i>Thomas Rajotte, Université du Québec en Abitibi-Témiscamingue (Canada)</i></p>	<p>Utilization of Hybrid Rocket as an Educational Material for Science Classes in a Public Junior High School <i>Atsushi Ishihara, Saitama Institute of Technology (Japan)</i></p>	<p>The Development of an Accessible E-Learning Platform for Congenitally Visually Impaired Students: Learning Chinese Computer Input Method as an Example <i>Huang Cin-Wei, National Tsing Hua University (Taiwan, Republic of China)</i> <i>Wang Jan-Li, National Applied Research Laboratories (Taiwan, Republic of China)</i></p>
<p>Utilising Different Models of Integration to Enhance the Teaching and Learning of Second Level Science and Mathematics <i>Jennifer Johnston, University of Lincoln (United Kingdom)</i></p>	<p>From Logic Puzzles to Logic Gates – Combining Fun and Practice in Teaching Introduction to Computer Science <i>Suren Khachatryan, American University of Armenia (Armenia)</i></p>	<p>Space Tree without Barriers <i>Mustafa Şahin Bülbül, Kafkas University (Turkey)</i></p>
<p>Body Cognition and Math Education for Pre-School Children <i>Silvia Benvenuti - Alessandra Renieri, University of Camerino (Italy)</i></p>	<p>On-line Genomics Computer Laboratory with Collaborative Activities <i>Daniela Amendola, University of Camerino (Italy)</i></p>	<p>Characteristics of Nuclear Power and Radiation Education for Schools in Fukushima Prefecture, Japan <i>Shinobu Goto, Fukushima University (Japan)</i></p>

Lunch 13:00 - 14:30



Thursday 17 March 2016

Afternoon Session: 14:30 – 18:45

Room A 14:30 – 16:35	Room B 14:30 – 16:35	Room C 14:30 – 16:35
<p>Enhancing Students' Motivation Moderator: Thomas Waitz, Georg-August-University Göttingen (Germany)</p>	<p>Training of Science Teachers Moderator: Edwin Koster, Vrije Universiteit Amsterdam (The Netherlands)</p>	<p>Science Education and Interdisciplinarity Moderator: Ann Mutvei, Södertörn University (Sweden)</p>
<p>Cooperation in Science Education using the Science Garage, an Approach for Self-Motivated Science Learning <i>Georg Pestal, School Sisters of Notre Dame (Austria)</i></p> <p>Intrinsic Motivation in a Sub-Project Designed Microcontroller Course for Technical Secondary Colleges <i>Florian Stampfer, University of Innsbruck (Austria)</i></p> <p>Could Smartphone in Science Teaching Foster Motivation and Positive Attitudes in Students? <i>Immacolata Ercolino - Sabina Maraffi, University of Camerino (Italy)</i></p> <p>Write a Science Opera (WASO): Is there a Motivational Boost in Multidisciplinarity and Creativity? <i>Andreia Volta e Sousa, Universidade de Aveiro (Portugal)</i> <i>André Ramos, Curso de Música Silva Monteiro (Portugal)</i></p> <p>An Innovative Method for Knowledge Diffusion – Powerful Instrument for Enhancing Students' Motivation <i>Stoyan Denchev - Irena Peteva, State University of Library Studies and Information Technologies (Bulgaria)</i></p>	<p>Balancing the Equation: Reflection on The Teachers' and Learners' Experience of an Elective Chemistry Course for Pre-Service Primary Teachers <i>Anne O' Dwyer, Mary Immaculate College (Ireland)</i></p> <p>Self-regulation of Emotions: towards a more Complete Evaluation of Pre-service Primary Teacher Training in Science Education <i>Miguel Romero-Gutiérrez, University of Almería (Spain)</i></p> <p>Pre-Service Science Teachers' Views Towards Socio-Scientific Issues <i>Ali Günay Balm - Erkan Özcan, Dokuz Eylul University (Turkey)</i></p> <p>Looking Back at a Science Teachers' Training Program at IGNOU <i>Kamalika Banerjee, Indira Gandhi National Open University (India)</i></p> <p>Intellectual Property Research In the Business Education <i>Maria Markova, University of National and World Economy (Bulgaria)</i></p>	<p>Reflections on 25 Years Teaching on an Interdisciplinary Programme in Biotechnology <i>Greg Foley, School of Biotechnology Dublin City University (Ireland)</i></p> <p>Brownian Motion: An Interdisciplinary Teaching Proposal <i>Immacolata D'Acunto - Roberto Capone – Umberto Della Iacono - Flora Del Regno, University of Salerno (Italy)</i></p> <p>Interdisciplinary Science Project on Student Learning: Synchronization Problems in Computer Science <i>Haklin Kimm, East Stroudsburg University (United States)</i></p> <p>History and Philosophy in Science Teaching: The Perspective of Artisans in Scientific Discovery Using Drama as Inclusion <i>John Oversby, University of Reading (United Kingdom)</i></p> <p>When Something Is like Something Else: Hands-On Science through Analogies <i>Yair Ben-Horin, ORT Israel School network (Israel)</i></p>

Coffee Break 16:35 – 16:45

Poster Session: 16:45 – 17:05

Room A 17:05 – 18:45	Room B 17:05 – 18:45	Room C 17:05 – 18:45
<p>Science Teaching Methods Moderator: Haklin Kimm, East Stroudsburg University (United States)</p>	<p>Training of Science Teachers Moderator: Maria Markova, University of National and World Economy (Bulgaria)</p>	<p>Outdoor Science Education Moderator: John Oversby, University of Reading (United Kingdom)</p>
<p>The Development of a Blended Engineering Program in Industrial Instrumentation and Automation <i>Joseph Walsh, Institute of Technology Tralee (Ireland)</i></p> <p>Facing Future Challenges: Building Engineers for Tomorrow <i>Anna Bouffier - Linda Steuer, RWTH Aachen University (Germany)</i></p> <p>How to Motivate the Pupils in the Study of the Basic Matters for Engineering <i>Patricio A Cullen, Universidad Tecnológica (Argentina)</i></p> <p>Quizzing to Become an Engineer – A Commercial Quiz App in Higher Education <i>Laura Weitze, Bauhaus-Universität Weimar (Germany)</i></p>	<p>Enhancing Teachers' Professional Knowledge in Connecting the World of Work to Inquiry Based Science Teaching: Case of Norway <i>Maria Immaculata Maya Febri - Ragnhild Lyngved Staberg, Norwegian University of Science and Technology (Norway)</i></p> <p>From a Teaching Disaster to a Teaching Success <i>Evgenia Sikorski, Offenburg University (Germany)</i></p> <p>Fostering Teachers' Understanding of Scientific Concepts through Fabrication of Prototypes <i>Ramanathan Subramaniam, National Institute of Education Nanyang Technological University (Singapore)</i></p> <p>Amgen Teach Programme for Life Science Teachers <i>Enrique Martin, European Schoolnet (Belgium)</i></p>	<p>Conceptual Profiles in Outdoor Education <i>Mikael Lönn, Södertörn University (Sweden)</i></p> <p>Forces, to Visualise the Invisible <i>Jan-Eric Mattsson - Ann Mutvei, Södertörn University (Sweden)</i></p> <p>The Effect of Active Learning Based Nature Camp Activities on University Students' Scientific Knowledge and Conceptual Understandings about Nature <i>Meryem Nur Aydede Yalçin, Niğde University (Turkey)</i></p> <p>The Usage of Argumentation-Based and Problem-Based Learning Approaches Intended for Developing the Environmental Knowledge of Pre-Service Science Teachers <i>Pinar Fettahlioglu, Cukurova University (Turkey)</i></p>

End of the 1st Conference Day



Friday 18 March 2016

Morning Session: 9:10 – 13:00

Room A 9:10 – 10:50	Room B 9:10 – 10:50	Room C 9:10 – 10:50
New Technologies for Science Teaching <i>Moderator: Luisa Panichi, University of Pisa (Italy)</i>	Enhancing Physics Students' Motivation <i>Moderator: Priit Reiska, Tallinn University (Estonia)</i>	Studies on Science Education <i>Moderator: Kania Greer, Georgia Southern University (United States)</i>
Role of Technology in Promoting Formative Assessment Practices in Science Classes <i>Majella Dempsey, Maynooth University (Ireland)</i>	A Comparative Cross-cultural Study of the Prevalence and Nature of Misconceptions in Physics amongst English and Chinese Undergraduate Students <i>Ian Abrahams - Rachael Sharpe, University of Lincoln (United Kingdom)</i>	The Mallow Schools Project: Developing the "knowledge economy" through STEM Education <i>Maeve Liston, Mary Immaculate College (Ireland)</i>
Innovations in Science Education - The Introduction of the Interactive Whiteboard in Maltese Science Classrooms <i>Chanelle Attard, University of Malta (Malta)</i>	The Basketball Shot: Building The Bridge Between Physics And Mathematics <i>Vincent English, Cambridge University (Ireland)</i> <i>Margaret Farren - Yvonne Crotty, Dublin City University (Ireland)</i>	The European mascil Project <i>Suzanne Kapelari, University of Vienna (Austria)</i> <i>Florian Stampfer, University of Innsbruck (Austria)</i>
Forget the Formula, Reflect Your Results! How to Learn Complex Correlations with Mobile Apps <i>Claus Rainer Michalek, University of Natural Resources and Life Sciences, Vienna (Austria)</i> <i>Gottfried S. Csanyi, Vienna University of Technology (Austria)</i>	The Use and Effectiveness of Oral Tests in Physics <i>Melvin Cauchi, San Ġorġ Preca College (Malta)</i> <i>Martin Musumeci, University of Malta (Malta)</i>	The Role of Library Laboratory (LibLab) as an Innovative Project for Science Education in University Information Environment <i>Irena Peteva - Stoyan Denchev, State University of Library Studies and Information Technologies (Bulgaria)</i>
Flipped Classroom <i>Chiam Kim Yeow - Ahmad Fairuzi Ahma, Pioneer Primary School (Singapore)</i>	Attitudes towards Physics and Chemistry: Insights from a Questionnaire Validation with Music Students <i>Carla Morais - Luciano Moreira, Universidade do Porto (Portugal)</i>	Information Literacy of LIS Students in SULSIT: Survey Results and Academic Reflections <i>Tereza Trencheva - Elisaveta Tsvetkova, State University of Library Studies and Information Technologies (Bulgaria)</i>

Coffee Break 10:50 – 11:00

Poster Session: 11:00 – 11:20

Room A 11:20 – 13:00	Room B 11:20 – 13:00	Room C 11:20 – 13:00
Science Teaching Methods <i>Moderator: Suzanne Kapelari, University of Vienna (Austria)</i>	Science Education Projects and Initiatives <i>Moderator: Tereza Trencheva, The State University of Library Studies and Information Technologies (Bulgaria)</i>	Studies on Science Education <i>Moderator: Majella Dempsey, Maynooth University (Ireland)</i>
Communicating and Educating Science in a Responsible Way. The Relation between 'Views of Science' and 'Communication of Science' in Classrooms <i>Edwin Koster, Vrije Universiteit Amsterdam (The Netherlands)</i>	The Impact of Year 6 Parents Evening and Science Induction Days on Student Attitudes towards Science Lessons across the Transfer from Primary to Secondary School <i>Stuart Norris, University of Lincoln (United Kingdom)</i>	Students' Ideas in Novel Situations: Misconceptions or Fragmented Pieces of Knowledge? <i>Nikolaos Fotou - Ian Abrahams, University of Lincoln (United Kingdom)</i>
Observation, not only Perception but also Cognition <i>Ann Mutvei - Mikael Lönn - Jan-Eric Mattsson, Södertörn University (Sweden)</i>	Subject Choice after Having the Three Science Subjects at School: Is It Beneficial? <i>Elysia Ellul Micallef, St Joseph Mater Boni Consilii School (Malta)</i> <i>Martin Musumeci, University of Malta (Malta)</i>	Stuck for Words: Multimodal Representations of Children's Ideas in Science <i>Carol J Callinan, University of Lincoln (United Kingdom)</i>
Action Research: A New Perspective in Math and Science Education <i>Roberto Capone - Flora Del Regno - Immacolata D'Acunto, University of Salerno (Italy)</i> <i>Maria Rosaria Del Sorbo, ISIS Poggiomarino (Italy)</i>	Rendezvous with your Dream job – Orientation Week at the European Academy EURAC Bolzano <i>Uta Fritsch, EURAC European Academy Bolzano, Science Communication (Italy)</i>	Study on the Cancer's Representations from Non-initiated Academic Pupils and their Filing Systems <i>Sebastien Malpel - Robert Andres, Laboratoire CIMEOS. Universite de Bourgogne (France)</i>
Using Socio-Scientific Argumentation as a Driver for Science Learning <i>Kania Greer, Georgia Southern University (United States)</i>	European Cooperation Opportunities and Funds in the Field of Science <i>Elisabetta Delle Donne, Pixel (Italy)</i>	Students' Perceived Importance of Good Practices in Undergraduate Education: How Different Are the Pure and Applied Sciences? <i>Richard R. Jugar, University of San Carlos (Philippines)</i>

Lunch 13:00 – 14:30



Friday 18 March 2016

Afternoon Session: 14:30 – 18:50

Room A 14:30 – 16:10	Room B 14:30 – 16:10	Room C 14:30 – 16:10
Science and Language Moderator: Peter Childs, University of Limerick (Ireland)	Enhancing Students' Motivation Moderator: Martin Musumeci, University of Malta (Malta)	Studies on Science Education Moderator: Maeve Liston, Mary Immaculate College and the NCE-MSTL (Ireland)
Implementing Inquiry-Based Learning in the Irish Language Science Classroom, using engaging interactive resources embedded in the Inspiring Science Education project Lesson Authoring Tool <i>Colm O Coileáin, Dublin City University (Ireland)</i>	A Mathematical Model of Teaching and Learning (M2TL) <i>Shaher R. Elayyan, King Faisal University (Saudi Arabia)</i>	Understanding Educational Inequality In Rural Lincolnshire: A Statistical Interrogation of Gaps in Educational Achievement <i>Victoria Laxton, University of Lincoln (United Kingdom)</i>
Fostering Subject Specific Language Abilities of Future Chemistry Teachers <i>Maike Busker, University of Flensburg (Germany)</i>	Learning Styles as a Tool to Improve both Guidance and Tutoring Actions <i>Gabriella Giulia Pulcini, University of Camerino (Italy)</i>	A Study of Evidence-based Practices in a U.S. University: Lessons for Faculty Development <i>Joan Esson - Kathryn Plank - Anna Young - Paul Wendel, Otterbein University (United States)</i>
Reading Comprehension and Inferences: Comparison of Learning Disabled and Second Language Speakers <i>Lucie Godard, Université du Québec à Montréal (Canada)</i>	Development of Students' Concept Maps through High School Biology Studies <i>Priit Reiska, Tallinn University (Estonia)</i>	Sustainable and Accessible Science Education <i>Mustafâ Şahin Bülbül, Res.Assist. (Turkey)</i>
The Interactive Methods of Teaching a Foreign Language <i>Argentina Chiriac, State University of Medicine and Pharmacy "Nicolae Testemitanu" (Republic of Moldova)</i>	Learner-Centred Teaching at Corporate Risk Management Course– Evidence On Student Satisfaction and Progress <i>Danijela Miloš Sprčić, University of Zagreb (Croatia)</i>	Attitudes towards Science and Religion: Insights from a Questionnaire Validation with Secondary Education Students <i>Luciano Moreira - Carla Morais, Universidade do Porto (Portugal)</i>

Coffee Break 16:10 – 16:20

Poster Session: 16:20 – 16:40

Room A 16:40 – 18:20	Room B 16:40 – 18:20	Room C 16:40 – 18:20
Training of Science Teachers Moderator: Carla Morais, Universidade do Porto (Portugal)	Science Education Projects and Initiatives Moderator: Evgenia Sikorski, Offenburg University (Germany)	Studies on Science Education Moderator: Marie Walsh, Limerick Institute of Technology (Ireland)
Effectiveness of Argument-Driven Inquiry on Pre-service Teachers' Scientific Writing Skills <i>Pinar Seda Cetin, Abant Izzet Baysal University (Turkey)</i> <i>Ebru Kaya, Bogazici University (Turkey)</i>	Open Data and Open Source GIS in School Action towards a Sustainable and Livable Environment <i>Periklis Georgiadis, Experimental General Lyceum of Heraklion (Greece)</i>	The Role of Intellectual Property in Bioinformatics in Bulgaria <i>Tereza Trencheva, The State University of Library Studies and Information Technologies (Bulgaria)</i>
Creative Comparisons Developed by Pre-service Science Teachers and the Use of Anthropomorphism and Animism Towards The Electrochemistry Concepts <i>Suat Türkoguz, Dokuz Eylul University (Turkey)</i>	Physics Toys Used for Efficient Learning in Physics <i>Demet Karakaş, Terakki Foundation Sisli Terakki (Turkey)</i>	How Do We Proceed? A Needs Assessment Study with Chemistry Teachers <i>Ridvan Elmas, Afyon Kocatepe University (Turkey)</i>
Incorporating a Holistic Model of Nature of Science in Pre-Service Science Teacher Education <i>Ebru Kaya, Bogazici University (Turkey)</i> <i>Pinar Seda Cetin, Abant Izzet Baysal University (Turkey)</i>	The Friction Force and Effects in Daily Life <i>Hande Gokdogan, Terakki Foundation Sisli Terakki (Turkey)</i>	Contour Matching in Image-Based Cad Using B-Splines and Digital Geometry <i>David Duron-Arellano, Tecnológico de Monterrey (Mexico)</i>
A Research on Factors Affecting Teachers' Opinions Intended For Entrepreneurship <i>Suat Türkoguz, Dokuz Eylul University (Turkey)</i>	Cadaver Dissection is Integrated Vertically in Anatomy Teaching <i>Ismail Memon, King Saud bin Abdulaziz University for Health Sciences (Saudi Arabia)</i>	Teaching Modern Greek History to High School Students by Dramatizing Literature Texts <i>Sophia Chatzigeorgiou - Athanasia Mylona, High School of Aspropyrgos (Greece)</i>

Closing Speech: 18:25 – 18:50

Overcoming the Language Barrier in Science Education
Peter Childs, National Centre for STEM Education, University of Limerick (Ireland)

Cocktail 19:10 – 19:40



Virtual Presentations

(Available on the Conference Website)

Aligning the COBIT and ITIL Frameworks into an Academic Science Education Curricula <i>Vanco Cabukovski, Ss. Cyril and Methodius University (Macedonia)</i>	PBL Methodology: Enhancing Science and Mother Tongue Integration <i>Carolina Gonçalves, Escola Superior de Educação de Lisboa / Universidade Nova de Lisboa (Portugal)</i>
A New User-Interface Model for Albanian-Speaking Blind and Visually Impaired Science Students <i>Vanco Cabukovski, Ss. Cyril and Methodius University (Macedonia)</i>	Preparing Young Adults To Be Effective E-Workers <i>Stefan Colibaba, Al.I. Cuza University (Romania)</i> <i>Anca Colibaba, GR.T.Popa University / EuroED Foundation (Romania)</i>
A Research about Students' Understanding of Scientific Inquiry Through a Formative Concept Map Design <i>Christine Buchegger, University of Vienna (Austria)</i>	Relationship between Point-based Evaluation and Comment-based Evaluation in Self-evaluation <i>Kenichi Goto, National Institute for Educational Policy Research (Japan)</i>
Agent-Based Modeling Games – Teaching Situation Specific Science Topics <i>Nicole Simon, Nassau Community College (United States)</i>	Residential Environmental Education Centers: Perceived Benefits of a Class Visit <i>Nicholas Bourke, Auburn University at Montgomery (United States)</i>
Changing Students' Attitude Towards STEM by Educational Robotics & Digital Games Programming <i>Batzogiannis Ilias, P technologies (Greece)</i>	SAMR Framework for Study Technology Integration in Science Education <i>Ilya Levin, Tel Aviv University (Israel)</i>
Competence in Teaching in the Renewable Energy Field - an Encouragement for Exchange <i>Herena Torio, University of Oldenburg (Germany)</i>	<i>Science Teachers' Views Regarding the Inclusion of 5th Grade Students in Secondary School</i> <i>Bülent Aydoğdu, Afyon Kocatepe University (Turkey)</i>
ComPhySport Physics – Sport Complex <i>Miriam Martínez Muñoz, UAH (Spain)</i>	Teaching the Drainage: Experimental Model for Understanding and for Comparison of Different Systems <i>María Fernández-Raga, Universidad de León (Spain)</i>
Differentiated Learning with Mathematical Software: Orthogonal Curves from Wire Grid to Differential Equation <i>Tanja Van Hecke, Ghent University (Belgium)</i>	The Albanian Women During the Communist Regime <i>Ezmeralda Xheraj, European University of Tirana (UET) (Albania)</i>
Educating Future Science Popularizers <i>Olga A. Pilkington, Dixie State University (United States)</i>	The Influence of Religion in Sexual Education among Albanian Teenagers <i>Dorina Zenelaj, European University of Tirana (Albania)</i>
Educational Technology for Technical Schools <i>Elena Brozici, Electrical Engineering (Romania)</i>	"The Students Work, the Teacher Guides" <i>Aida Zhupa, "Hospitality & Tourism" High School (Albania)</i>
Evolution of the Application of an Educational Innovation in a General Chemistry Course <i>Patricia Morales Bueno, Pontificia Universidad Católica del Perú (PUCP), (Peru)</i>	The Ideas of Constructivism and the Process of Evaluation of the Scientific Literacy of Students During the Process of Their Education in Chemistry <i>Violeta Konstantinova, Vasil Drumev High School of Mathematics and Natural Sciences (Bulgaria)</i>
Fostering Participation and Transparency in Laboratory Higher Education - Experiences with the "Seminar Blog" <i>Tanja Behrendt - Herena Torio, University of Oldenburg (Germany)</i>	Towards a Pedagogy of Complexity: Responsibility, Critical Thinking and Complex Systems in Science Education. Review of the Science and Humanities Program in UNAM <i>Octavio Valadez Blanco, National Autonomous University of Mexico (UNAM) (Mexico)</i>
Goerudio Models or how to Motivate Students to Love Science <i>Anca Colibaba, GR.T.Popa University / EuroED Foundation (Romania)</i> <i>Stefan Colibaba, Al.I. Cuza University (Romania)</i>	Using Video Games, Are a Help to Improve Student's Design Skills? <i>María Fernández-Raga - José A. Resines-Gordaliza, Universidad de León (Spain)</i>
Initial Results from Pilot Phase of the Ark of Inquiry project: Using Inquiry-based Science Education Techniques to Foster Responsible Research and Innovation in Science Learning <i>Lauren Bohatka, UNESCO Regional Bureau for Science and Culture in Europe (Italy)</i>	Vermicomposting in Mexican Secondary Biology Classrooms: Effects on Learning Outcomes and Student's Motivation <i>Maria Teresa Guerra-Ramos, Centro de Investigación y de Estudios Avanzados del IPN, Unidad Monterrey (Mexico)</i>
Interactive Teaching Impact on the Promotion of Entrepreneur Spirit Among the Albanian Students <i>Dritan Shoraj, Tirana University (Albania)</i>	Translating Research Findings for Science Teachers: Best Practice for Science Teaching <i>Johnson Uphai, University of Ilorin (Nigeria)</i>
Investigating Science Education in the Context of International Cooperation for Development: the Case of the Portuguese Public Higher Education Institutions <i>Bettina Lopes, University of Aveiro (Portugal)</i>	



Posters

A Nano School Lab as Part of an International Science Camp <i>Elena von Hoff - Thomas Waitz, Georg-August-University Goettingen, (Germany)</i>	On the Risk Literacy of Young People in the Context of Nanotechnology <i>Doris Elster, Institute for Science Education (Germany)</i>
Application of Inquiry-based Science Assessment Questions on Earth Science content domain (V) <i>Young Tae Kong, Chinju National University of Education (Republic of Korea)</i>	Organic Redox Flow Batteries: An Innovation in the Field of Education for Sustainable Development for Educational Curricula <i>Sebastian Böttger - Maik Busker, University of Flensburg (Germany)</i>
Comparison of Traditional-classroom Instruction and Inquiry Based Science Education (IBSE): A Preliminary Study of Students' Perceptions <i>Mariada Muciaccia, University of Camerino (Italy)</i>	Participatory Development of Competence-Oriented Examination Tasks with Biology Teachers as Large-Scale Professional Development Initiative <i>Ilse Wenzl - Christine Heidinger, University of Vienna (Austria)</i>
Compensation e-Learning in Fundamental Education <i>Milena Koleva, Technical University of Gabrovo (Bulgaria)</i>	Promoting System Thinking Via the Syndrom Approach <i>Doris Elster, Institute for Science Education (Germany)</i>
Conflicts between Learning in Natural History Museum and School <i>Martin Scheuch - Christine Heidinger, University of Vienna (Austria)</i>	Teaching Water Management to Future Engineers: Using R to Blend Programming Needs and GIS <i>Gabriel Ibarra-Berastegi, University of the Basque Country (Spain)</i>
Establishing a Community of Practice for Science Educators in an Irish Institute of Technology <i>Gary Stack - Mike Broderick - Therese Montgomery, Athlone Institute of Technology (Ireland)</i>	The Chemical Formula Language: A Blended-Learning Course Design for the Transition between School and University <i>Constanze Koch - Thomas Waitz, Georg-August-University Göttingen (Germany)</i>
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