

Date	AM	PM	Evening
	All morning sessions are single-strand.	All afternoon sessions are parallel-strand.	
Monday 11 Sept 06		14.30 Onwards - Registration Level 9	18.30 Welcome Reception and Buffet - Jeffery Hall
Tuesday 12 Sept 06	<p>9:00 - Opening remarks - Michael Reiss - Jeffery Hall</p> <p>9:05 - 9.25 Keynote Address - Fotis Kafatos, Imperial College London <i>Teaching and research in Biology in an era of unification</i></p> <p>9:30 - 11:00 - Paper Session I Jeffery Hall Strand 4 Student reasoning, scientific thinking and argumentation</p> <p><u>John K Gilbert, Bev France</u> <i>A model for communication about biotechnology</i> <u>Vaile Dawson</u> <i>Argumentation about biotechnology with Western Australian high school students</i> <u>Marida Ergazaki & Vassiliki Zogza</u> <i>Exploring options for increasing the equilibrium size of a fish population in a lake: Peers' discursive activity towards the concept of carrying capacity within a computer-supported learning environment</i></p> <p>11:00 -11:30 Coffee Break</p> <p>11:30 -13: 00 Paper Session II Jeffery Hall Strand 1 Student Conceptions and Conceptual Change</p> <p><u>Kattmann, Ulrich</u> <i>Learning Biology by means of anthropomorphic conceptions?</i> <u>Zabel, Jörg</u> <i>Stories about evolution: The role of narrative in Understanding</i> <u>Anita Wallin</u> <i>One year after teaching – How consistent are students in using the scientific theory of biological evolution by natural selection?</i></p>	<p>14:00 - 15:00 Poster Session Ia (10) Room 901 Strand 4 Student reasoning, scientific thinking and argumentation</p> <p><u>Teixeira, Francimar Martins</u> <i>Argumentation in Science Class for Brazilian Children: A Case Study</i> <u>Grady Venville and Jenny Donovan</u> <i>How Students from Year 2 to Year 12 Use a Model for Abstract Concepts in Genetics</i> <u>Martin Braund, Fred Lubben, Zena Scholtz, Melanie Sadeck & Merle Hodges</u> <i>Developing argumentation in grade 10 biology lessons in South Africa: implications for teachers' professional development</i> <u>Riemeier, Tanja</u> <i>Students' argumentation and conceptual development on blood circulation</i> <u>Du Plessis, L and Anderson, T R</u> <i>Development of a module of the process of interpretation of arrow Symbolism in biology diagrams</i> <u>Meisert, Anke</u> <i>Working with models and its effects on students' conception on models' epistemology</i> <u>Konrad J Schönborn, & Trevor R Anderson</u> <i>Measuring the factors influencing students' interpretation of external representations in biochemistry: a qualitative approach,</i> <u>Mariana Guelero do Valle & Marcelo Tadeu Motokane</u> <i>Argumentative structure in students' written production</i> <u>Sabine Mogge, Helmut Vogt, Bernd Wollring</u> <i>Scientific Thinking – Modelling Processes of Primary Level Students Regarding Special Natural Science Problems</i> <u>Alame Adrianna Gomez Galindo and Neus Sanmarti Puig</u> <i>Process of transformation of everyday language into scientific language in primary school children</i></p>	19:30 Boat Trip

		<p>14:00 - 15:00 Poster Session Ib (10) Room 903</p> <p>Strand 1 Student Conceptions and Conceptual Change</p> <p><u>Show-Yu Lin, Chih-Ming Tu, & Yeong-Jing Cheng</u> <i>Genetic concept learning of 7th grade students assessed by Concept Diagnostic Inventory-Biology</i></p> <p><u>Gericke, Niklas</u> <i>Two aspects of learning difficulties in genetics,</i> Berg, Helene Breiteig <i>Experience of relevant knowledge and understanding in genetics when facing genetics related socio-scientific issues</i></p> <p><u>Jorge Gross & Harald Gropengiesser</u> <i>Uniqueness and Variation: The Unexpected Outcomes of Free-choice Learning,</i> <u>Denise Azevedo & Edson Pereira da Silva</u> <i>Pupils talk movies: analysis of discourses about evolution</i></p> <p><u>Leonardo Gonzalez Galli & Elsa Meinardi</u> <i>Obstacles in the learning of natural selection</i></p> <p><u>Athanasiou Kyriacos, Papadopoulou Penelope & Sariggelis Michalis</u> <i>Views on Evolution and natural selection expressed by high school and university students</i></p> <p><u>Carolyn Boulter, Sue Dale Tunnicliffe, Professor Michael Reiss</u> <i>Ponds as Natural Habitats: How children express their understandings and the relevance for teaching biology</i></p> <p><u>Daniela Marchetti, Anna Perazzone, Laura Colucci-Gray, Giuseppe Barbiero, Ilenia Grandi, Elena Camino</u> <i>The conceptual tool „boundary“ and its application to the different levels of biological hierarchical systems</i></p> <p><u>Lucia Prinou, Lia Halkia, Constantine Skordoulis</u> <i>How Primary School Teachers understand Adaptations and relevant Biological Concepts</i></p> <p>Please remove posters by 16.00 today.</p> <p>15:00 - 15:30 Afternoon Tea</p> <p>15:30 - 17:00 Paper Session IIIa Room 901</p>	
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<p>Wednesday 13 Sept 06</p>	<p>9:00 - 11:00 Paper Session IV Jeffery Hall Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Rene H V Westra</u> <i>The development of the concept 'écosystème' according to the concept-activity-context approach for biology education</i></p> <p><u>Clas Olander</u> <i>Design and validation of a teaching sequence for compulsory school about biological evolution – pupils' experiences and development of knowledge</i></p> <p><u>Rosemary Hipkins</u> <i>Formative assessment of primary school children's systems thinking</i></p> <p><u>Corina Gonazlez Weil and Ute Harms</u> <i>The analysis of learning processes in cell biology by collaborative concept maps</i></p> <p>11:00 - 11:30 Coffee Break</p> <p>11:30 - 13: 00 Paper Session V</p>	<p>14:00 - 15:00 Paper Session VIa Room 901 Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Paul Jatzwauk & Angela Sandmann</u> <i>Structures of Lessons and Use of Tasks in Grammar School Biology Education</i></p> <p><u>Angela Krombaß</u> <i>Cognitive and motivational effects of a computer-based information system on the topic of biodiversity supplementing the exhibits of a natural history museum</i></p> <p>14:00 - 15:00 Paper Session VIb Room 903 Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Matthias Wilde, Detlef Urhahne</u> <i>Motivational and cognitive consequences of learning in a natural history museum with differently structured tasks</i></p> <p><u>Michael Germ & Ute Harms</u> <i>How do biology tests look like in German grammar schools? A descriptive study on task formats and</i></p>	<p>Free Evening</p>

	<p>Jeffery Hall Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>David Slingsby & Michael J. Reiss</u> <i>Assessing a new advanced level biology course for 16-19 year-olds</i> <u>Julia Wadouh, Birgit Neuhaus & Angela Sandmann</u> <i>Cumulative Learning and Inner Subject Linkage in Biology Education</i> <u>Gustav Hellden, Constantine Aivazidis & Maria Lazaridou</u> <i>The advantage of computer assisted instruction in environmental education at secondary level</i></p>	<p><i>teachers' intentions for raising different cognitive dimensions</i></p> <p>15:00 Bookable Visits</p> <p>Please remove posters by 16.00 today.</p>	
<p>Thursday 14 Sept 06</p>	<p>9:00 - 11:00 Paper Session VII Jeffery Hall Strand 3 Student Values, attitudes and decision-making</p> <p><u>Marcus Grace</u> <i>Developing high quality decision-making discussions about biological conservation in a normal classroom setting</i> <u>Marta Federico-Agraso & Maria Pilar Jiménez-Aleixandre</u> <i>Therapeutic cloning? Discourse genres, ethical issues and students' perceptions</i> <u>Margareta Ekborg</u> <i>Opinion building in a social-scientific issue: the case of genetically modified plants</i></p> <p>Strand 1 Student Conceptions and Conceptual Change</p> <p><u>Maïke Ehmer & Marcus Hammann</u> <i>Student conceptions about the method of scientific experimentation</i></p> <p>11:00 - 11:30 Coffee Break</p> <p>11:30 - 13: 00 Paper Session VIII Jeffery Hall Strand 2: Student Interest and Motivation</p> <p><u>Bev France, Catherine Buntting</u> <i>Choosing biotechnology: A</i></p>	<p>14:00 - 15:30 Poster Session IVa Room 901 Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Rifat Efe & Hulya Aslan Efe</u> <i>Using student group leaders in co-operative learning methods in biology classrooms</i> <u>Saïda AROUA, Maryline Coquide, Salem Abbes</u> <i>A didactic strategy for teaching biological evolution in Tunisia: epistemological reflections and argumentations</i> <u>Magali Fuchs Gallezot, Maryline Coquide</u> <i>Genetics, genomics and post-genomics: educational challenges and how the French curriculum related to life sciences teaching deals with these fields?</i> <u>Miriam Ossevoort, Martin Goedhart</u> <i>Active collaborative knowledge construction by first-year biology students using an electronic discussion board</i> <u>Angelika Kremer, Mark Walker, Kirsten Schlüter</u> <i>Can prospective teachers' views of science and science teaching be altered? A study looking at the effects of a training course in inquiry-based science</i> <u>Cohen, Rahel</u> <i>Teaching the living cell topic as a</i></p>	<p>Conference Dinner</p>

	<p>narrative exploration of significant educational episodes influencing career choices in biotechnology <u>Ayelet Baram-Tsabari, Anat Yarden</u> Interest in biology: A developmental shift characterized using self-generated questions <u>Anja Schmitz, Claudia Nerdel</u> A Study of the Development of Interest and Knowledge among Students using the Project NaT-Working Meeresforschung (Oceanography) as Example</p>	<p><i>longitudinal axis in junior-high schools: examining experienced teachers' PCK</i> <u>Downs, Colleen T</u> <i>Moving away from a lecture-mode to a tutorial-skills based mode: experiences of a 1st year Biology course on two campuses at the University of KwaZulu-Natal, South Africa</i> <u>Donovan, Jenny</u> and Vaille Dawson <i>Factors influencing the use of information communication technology (ICT) by early career science teachers</i> <u>Michael Ewig & Karen Drews</u> <i>Time spent of reproducing, restructuring and transferring knowledge – a comparison of students instructed bilingually and in German only</i> <u>Van Dijk, Esther M</u> <i>Educational Reconstruction of Evolution for Teacher Education</i> <u>Agustín Adúriz-Bravo, Leonardo</u> <u>González Galli, Lorena Inzillo, Valeria Litterio, Elsa Meinardi, Rosana Valli, Andrea Revel Chion, María Inés Rodríguez Vida & Javier Simón</u> <i>Learning about the nature of biology in secondary classes: Rationale and proposals</i> <u>Sandie Bernard, Graça S Carvalho & Pierre Clement</u> <i>The French teaching of human reproduction and sexuality in secondary schools since 1950</i> <u>Carrió M, Albaina S, Andion, O</u> <u>Larramona, P Calafell, F Baños & J-E Perez.</u> <i>Assessment of the biology learning by PBL method in undergraduate students: comparison study between traditional method and PBL</i></p> <p>14:00 - 15:30 Poster Session IVa Room 903 Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Constantine Aivazidis, Harvey Mellar & Ralph Levinson</u> <i>An investigation into the use of identification keys in the training of biology students</i> <u>Dorita Demetriou, Konstantinos Korfiatis, Michael Michael & Konstantinos Constantinou</u> <i>Evaluation of an e-curriculum for supporting field studies, an enhancing</i></p>	
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<p>Friday 15 Sept 06</p>	<p>9:00 - 11:00 Paper Session X Jeffery Hall Strand 8 Social, cultural and gender issues in Biology education</p> <p><u>Laurence Simonneaux, Jean Simonneaux</u> <i>Teachers' roles in teaching about controversial socio-scientific issues</i></p> <p><u>Gregoire Molinatti</u> <i>Students meeting neuroscientists about socio scientific issues</i></p> <p>Ralph Levinson <i>A model for teaching controversial issues associated with biomedicine and biotechnology</i></p> <p><u>Rachel Levy Santos, Sandra Escovedo Selles and Marcia Serra Ferreria</u> <i>Examining the ambiguities of the human race concept in Biology textbooks: tensions between knowledge and values expressed in the school knowledge</i></p>	<p>14:00 – 15:30 Paper Session XIIa Room 901 Strand 5: Teaching: teaching strategies, teaching environments and educational technology</p> <p><u>Cornelia Sommer & Markus Lücken</u> <i>Elementary students' system competency – description and promotion</i></p> <p><u>Simone Lachmayer & Boy Kramer</u> <i>Supporting learning of a complex topic in a multimedia learning environment with different note-taking formats</i></p> <p><u>William John Fraser, Mbulaheni Obert Maguvhe</u> <i>The teaching of life science in special schools to blind and visually impaired learners and its implications to inclusive education in outcomes-based learning environments</i></p> <p>14:00 – 15:30 Paper Session XII Room 903 Strand 9 Practical Work and Field Work in Biology Education</p>	

	<p>11:00 - 11:30 Coffee Break</p> <p>11:30 - 13: 00 Paper Session XI Jeffery Hall Strand 9 Practical Work and Field Work in Biology Education</p> <p><u>Ingrid Glowinski & Horst Bayrhuber</u> <i>Student labs as out-of-school settings promoting interest – efficacy and determining factors</i></p> <p><u>Roger Lock</u> <i>Fieldwork in biology for 11-16 year old students: curriculum practices, rationales and actions that encourage and support biology fieldwork activity</i></p> <p><u>Claudia Maiß, Susanne Bögeholz</u> <i>Scientific learning in the out of school laboratory XLAB in Göttingen, Germany – Evaluation of the Science Camp</i></p>	<p><u>Reuven Babai, Rachel Sekal & Ruth Stavy</u> <i>Interference of the primary intuitive model of living things in high school biology</i></p> <p><u>Thi Thanh Hoi Phan</u> <i>Testing levels of competencies in experimentation</i></p> <p><u>Franz-Josef Scharfenberg, Franz Bogner & Siegfried Klautke</u> <i>Learning in a educational lab with focus on gene technology: Results of teaching with authentic experiments</i></p> <p>15:30 - 16:00 Afternoon Tea</p> <p>16:00 - 17:00 Business Meeting</p> <p>17:00 End of Conference</p>	
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