CADGME-2009 Preliminary Programme

11 July 2009

Time	Session
8:30-9:15	Registration
9:15-9:30	Welcome (Room: P)
9:30-10:15	Plenary I: **Ralph-Johan Back**: Structured derivations: a method for teaching proofs in high school mathematics (Room: P)
10:15-10:40	Publication guidelines (IJTME, ADN) (Room: P)
10:40-11:00	Coffee break
11:00-12:30	Parallel session I

Room: G	Room: C1	Room: C2	Room: P	Room: RISC
Chair: Ildikó Perjési-Hámori	Chair: Jozef Hvorecky	Chair: Morten Misfeldt	ConvMathAssist WG	Workshop
Ulrich Kortenkamp, Christian Dohrmann User Interface Design for Interactive Geometry Software	**Durdica Takaci, Arpad Takaci** On the visualization of function concept by using CAS	**Alexandru Horváth** From discovery to proof - a new approach to an old theorem in plane geometry	**Walther Neuper** Common grounds for modeling mathematics in educational software	**János Karsai** How to prepare interactive Mathematica demonstrations for classroom
Francisco Botana, Jesus Escribano, Miguel Abanades Dynamic Geometry vs Game Physics software	**Helga Jungwirth** Through different eyes: a sociological approach to explanations in CAS-based mathematics classrooms	**Kaja Maricic** The methodical computer visulaisation of basic functions and their inverse functions	**Manfred J. Bauch** Thoughts on the future of the classical worksheet	
Jostein Vage In search of a locus using PC and DGS	**Eno Tonisson** Answers offered by Computer Algebra Systems to expression transformation exercises	**Anna Takács Klingné** Educational experiences about using different computer programs	**Steve Arnold** Dynamic integration of CAS and DGS: what does this mean?	

12:30-14:00	Lunch
14:00-15:30	Parallel session II

Room: G	Room: C1	Room: C2	Room: P	Room: RISC
Chair: Paul Andrews	Chair: Peter Samuels	Chair: Mette Andresen	ConvMathAssist WG	Workshop
Silva Kmetic A didactical aspect on teaching mathematics using dynamic geometry software	**Jesus Escribano, Francisco Botana, Miguel Abanades**. Integrating DG and CAS abilities under a common framework	**Vukobratovic Ruzica** On the notions of function	**Markus Hohenwarter** GeoGebra - Past, present, and future of this Dynamic Mathematics Software	**Philip Ramsden** Interactive Geometry In Mathematica
Ulrich Kortenkamp Blended experimentation with DGS	**Mihály Klincsik** Effects of CAS on understanding probabilistic concepts	**András Ringler** How to construct a regular pentagon from a square?	**Pedrag Janicic** Automated geometry theorem proving: readability vs. efficiency	
Mazen Shahin, Valentyna Pikalova Explorations in Elementary Mathematical Modeling	**Alla Stolyarevska** Iteration and recursion in dynamical programming	**Vladimira Petraskova, Roman Hasek** Issue of financial literacy	**Makarius Wenzel** The Isabelle/Isar framework as a "logical operating system"	

15:30-16:00	Coffee
16:00-16:45	Plenary II: **André Heck**: Modelling in cross-disciplinary authentic student research projects (Room: P)

17:00-18:00	Parallel session III			
Room: G	Room: C1	Room: C2	Room: P	Room: RISC
Chair: Judith Hohenwarter	Chair: Tomas Recio	Chair: Csaba Sárvári	ConvMathAssist WG	Workshop
Yves Kreis, Carole Dording GeoGebraPrim – GeoGebra for primary school	**Kiyoshi Kitahara, Takayuki Abe, Kenji Fukazawa, Masataka Kaneko, Satoshi Yamashita, Setsuo Takato**. Educational meanings of Printed materials with three dimensional figures - KETpic into LaTeX	**Jürgen Richter-Gebert** Visualization and Algorithms: Old teaching paradigms in new contexts	**Wolfgang Schreiner** On proving assistants in the classroom (and elsewhere)	**Zoltán Kovács** WebMathematics Interactive 2: A graphical user interface to computer algebra systems for students
Rita Nagy-Kondor Descriptive geometry and Dynamic Geometry Systems	**Alfred Wassermann** JSXGraph - Dynamic Geometry with JavaScript	**Lajos Szilassi** Some new regular toroids with hexagonal faces	**Cezary Kaliszyk, Freek Wiedijk** Teaching logic using ProofWeb	
19:00-22:00	Welcome dinner			

12 July 2009

8:30-10:00	Parallel session IV			
Room: G	Room: C1	Room: C2	Room: P	Room: RISC
Chair: Yves Kreis	Chair: Ildikó Perjési-Hámori	Chair: Anders Sanne	ConvMathAssist WG	Workshop
Andreas Fest Creating interactive user feedback in DGS using the scripting interface of Cinderella	**Zoltán Kovács** Making a difference	**Celina Abar** Virtual Learning Environment and others technologies used in continuous formation of mathematics teachers	**André Heck, Ton Ellermeijer** Mathematics assistants: Meeting the needs of secondary school physics education	**Reinhard Simonovits, Handelsakademie Grazbachgasse, Philip Ramsden** Using M@th Desktop notebooks and palettes in the classroom
Homero Flores. Learning math, doing math: deductive thinking and construction tasks with the Geometer's Sketchpad	**Miguel Abanades, Jesus Escribano, Francisco Botana.** Remote symbolic computation of loci	**Gerry Stahl, Murat Perit Cakir, Stephen Weimar, Baba Kofi Weusijana** Enhancing mathematical communication for virtual math teams	**Christian Hirsch** Innovation in design, access to, and use of software tools for high school mathematics	
	Csaba Sárvári, Mihály Klincsik, Zsolt Lavicza Cognitive strategies and CAS		**Matija Lokar** Reuse of teaching materials	
10:00-10:15	Coffee break			
10:15-11:00	Plenary III: **Paul Andrews**: Understanding the cultural dimension in research in mathematics teaching and learning (Room: P)			

11:15-12:45	Parallel session V				
Room: G	Room: C1	Room: C2	Room: P	Room: RISC	
Chair: Jozef Hvorecky	Chair: Zoltán Kovács	Workshop	ConvMathAssist WG	Workshop	
János Karsai Mathematica-aided study of impulsive systems in the math and applied classroom	**Djordje Herceg, Dragoslav Herceg.** Numerical integration with GeoGebra in high school	**Yves Kreis, Markus Hohenwarter Judith Hohenwarter** GeoGebra 3.2 – The new spreadsheet view	**Philip Ramsden, Reinhard Simonovits, Bernd Thaller** Design of M@th Desktop (MD), Considerations of software design and how to teach and learn with M@th Desktop	**Ramon Eixarch** WIRIS, tools for web based learning environments (Moodle, Drupal, Joomla, Blogs)	
Francisco Pérez-Arribas Teaching computer - aided design with the use of Dynamic Geometry	**Martin Kollar, Jozef Hvorecky** Learning more by solving series of problems		**Josef Bohm, Eno Tonisson** Do we need a CAS-dictionary?		
	Christian Bokhove Assessing symbol sense in a digital tool		**Christian Gütl, Alexander Nussbaumer** Enhanced personalized learning support of Computer Algebra Systems		

12:45-14:00	Lunch				
14:00-15:30	Parallel session VI				
Room: G	Room: C1	Room: C2	Room: P	Room: RISC	
Chair: János Karsai	Chair: Andre Heck	Workshop	Workshop	Workshop	
Peter Samuels Design of a mobile mathematics creativity laboratory for contemporary learners	**Mette Andresen, Morten Misfeldt** Essentials of teacher training sessions with GeoGebra	**Martin Kollar, Jozef Hvorecky** Learning more by solving series of problems	**Josef Böhm** Coding theory for the classroom?	**Ulrich Kortenkamp, Andreas Fest** Beyond DGS - simulations and scripting with Cinderella	
Natalija Budinski Learning and teaching mathematics in high school trough real life models	**Judith Hohenwarter, Markus Hohenwarter** Introducing Dynamic Mathematics Software to teachers: the case of GeoGebra				
Rein Prank White-Box/Black-Box principle in expression manipulation: How much can be automated?	**Yu-Wen Allison Lu, Markus Hohenwarter, Zsolt Lavicza** Establishing a professional development network with an open-source dynamic mathematics software - GeoGebra				
15:30-16:00	Coffee				
16:00-16:45	Plenary IV: **Bruno Buchberger**: Mathematical invention: How much can be automated? (Room: P)				
16:45-17:15	Awards (Room: P)				
17:15-17:45	Posters/meetings/exhibitions/journals				
18:00	Leaving for Conference dinner (promptly)				
18:30-20:00	Walking tour in Linz				
20:30-23:00	Conference Dinner				

13 July 2009

9:00-10:30	Parallel session VII			
Room: G	Room: C1	Room: C2	Room: P	Room: RISC
Chair: Mihály Klincsik	InterGeo WG	Workshop	Workshop	Workshop
Tatsuyoshi Hamada The toy box of mathematics: KNOPPIX/Math	**Tomas Recio** Intergeo: fostering the use of Dynamic Geometry Software in Europe Presentation and discussion on InterGeo issues by members of the InterGeo team: (Confirmed attendance so far): U. Kortenkamp M. Abandes F. Botana C. Dohrmann J. Escribano Y. Kreis T. Recio A. Wassermann	**Lilla Korenova, Jozef Hvorecky** Modeling towards meaning of functions	**Homero Flores** Learning math, doing math: deductive thinking and construction tasks with The Geometer's Sketchpad	**George T. Maróti** How to implement automata constructions in Maple?
Peter Körtesi, Pellumb Kllogjeri European Computer Algebra Driving Licence				
Zsolt Lavicza Mathematicians' views on CAS use in teaching				
10:30-11:00	Coffee break			
11:00-11:45	Plenary V: **Jozef Hvorecky**: Using a managerial analogy for making mathematics more attractive (Room: P)			
11:45-12:30	Closing (Room: P)			
12:30-14:00	Lunch			
15:00-	Excursion			

Posters and Exhibitions

Katarína Žilková WebMatika.sk – School mathematics in the environment of ICT	**Anders Sanne, Zsolt Lavicza, Arne Amdal** Establishing the GeoGebra Institute of Norway	**IJTME/ ADN** Publication stands	**Wiris**	**Mathematica**