

International

# GeoGebra

Conference

**29 - 31 August 2011**  
**Hagenberg near Linz**  
**Austria**



**JKU**  
JOHANNES KEPLER  
UNIVERSITY LINZ



PÄDAGOGISCHE HOCHSCHULE OÖ



PÄDAGOGISCHE  
HOCHSCHULE  
für NIEDERÖSTERREICH



Private Pädagogische Hochschule  
der Diözese Linz



**RISC**  
RESEARCH INSTITUTE FOR  
SYMBOLIC COMPUTATION

**bm:uk**

# Mon, August 29, 2011

Time	Session				
8:00-8:40	<b>Registration</b>				
8:40-9:00	<b>Welcome: Christian Dorninger, Austrian Ministry of Education. Audimax</b>				
9:00-10:00	<b>GeoGebra's Community – Markus Hohenwarter and Zsolt Lavicza GeoGebra 4 and beyond - Michael Borcherds &amp; Developer Team. Audimax</b>				
10:00-10:30	<b>Coffee Break</b>				
10:30-12:00	<b>Parallel Sessions 1</b>				
GI, Room: HS 5	GD, Room: HS 6	TE, Room: HS 3	PE, Room: HS 4	Room: Audimax	
Chairs: Zsolt Lavicza Istvan Juhos	Chairs: Markus Hohenwarter Michael Borcherds	Chairs: Mark Dawes Adrian Oldknow	Chairs: Eleonora Faggiano Damjan Kobal	<b>Mark Robinson</b> (Promethean) <u>Workshop</u> Interactive Whiteboards, Document Cameras and Student Devices. Bringing it all together (60 min)	
<b>Winkowska-Nowak Katarzyna</b> Spread of innovation in education on example of GeoGebra: case of European countries	<b>Michael Borcherds</b> The Development of GeoGebra 4.0	<b>Werner Olivier</b> Using GeoGebra applets as a supplement to a technology based skills upgrade programme for in-service mathematics educators in South Africa	<b>Milena Marić and Vojislav Andrić</b> Developing Interactive Didactic Material using GeoGebra for Early Stages of Primary Education		
<b>Antohe Valerian</b> GeoGebra in the Context of the IT Surrounding Environment	<b>Florian Sonner</b> GeoGebraTube	<b>David Obrador Sala</b> GeoGebra Moodle module: how to embed GeoGebra files into Moodle and reporting student's learning processes	<b>Behiye Ubuz and Serpil Yalcinalp</b> Exploring the Use of GeoGebra for Teaching and Learning Higher Level Cognitive Tasks at the Elementary Level		
<b>Alexandra Emilia Fortis, Adriana Binzar and Antohe Valerian</b> GeoGebra for All Ages	<b>Simon Weitzhofer and Markus Hohenwarter</b> GeoGebra CAS	<b>Jiří Vaníček and Josef Lombart</b> The computer as a drawing tool and school performance in geometry	<b>Wim Van Velthoven</b> A technical perspective: Using GeoGebra from within other Java applications		
<b>Ján Gunčaga and Janka Majherova</b> GeoGebra as a motivational tool for teaching and learning in Slovakia	<b>Mathieu Blossier</b> GeoGebra 5.0: space geometry	<b>İbrahim Kepceoglu</b> Using GeoGebra in teaching of limit and continuity	<b>Damjan Kobal</b> The art of teaching is being smartly simple – GeoGebra role model		
12:00-13:20	<b>Lunch</b>				
13:20-14:00	<b>Keynote Adrian Oldknow: GeoGebra as a vehicle for STEM. Audimax</b>				
14:00-15:30	<b>Parallel Sessions 2</b>				
SG, Room: HS 5	OE, Room: HS 6	CSC, Room: HS 3	RP, Room: HS 4	Room: Audimax	
Chairs: Evelyn Stepancik Esteban Diaz	Chairs: Morten Misfeldt Peter Boon	Chairs: Mike May George Sturr	Chairs: Gabriel Stylianides Anders Sanne	<b>Mark Robinson</b> (Promethean) <u>Workshop</u> Interactive Whiteboards, Document Cameras and Student Devices. Bringing it all together (60 min)	
<b>Kaja Maricic</b> Problem Solving Using GeoGebra –The Case of Geometry	<b>Jeno Szigeti</b> The powers of a Special Adjacency Matrix	<b>Djordje Herceg and Dragoslav Herceg</b> Theorems of type "there exists $\tau$ such that..." and GeoGebra	<b>Istvan Talata</b> Demonstrating Discrete Geometry problems by Geogebra		
<b>Alla Stolyarevska</b> Creating a help for the students	<b>Rudolf Großmann</b> The GeoGebra MediaWiki Extension	<b>Judit Robu and Anna Soós</b> GeoGebra and Stochastics	<b>Evelyn Stepancik</b> Reasoning-and-proving around the circumference		
<b>Zlatan Magajna</b> An observation tool for GeoGebra dynamic constructions	<b>Morten Misfeldt and Anders Sanne</b> Mathematical writing with GeoGebra	<b>Ayhan Aksoy, Özge Yiğitcan Nayir and Şeref Mirasyedioğlu</b> Design and Management of Teaching and Learning Process in the Secondary Mathematics Lesson by Dynamic Mathematics Software	<b>Daniela Velichova</b> Interactive Cognitive Tools in Mathematics		
<b>Amitava Saraswati and Nandini Saraswati</b> Dynamic illustrations of some Fibonacci identities	<b>Yong-Joon Kim and Myung-Soo Kim</b> Efficient Geometric Algorithms for Curves and Surfaces	<b>Mike May</b> Evangelizing beyond early adopters: Developing materials to train teachers in the use of GeoGebra	<b>Anthony Or</b> Using GeoGebra to Cater for Learning Needs Identified in Territory-wide System Assessment		
15:30-16:30	<b>Working Groups: Session 1</b>				
17:00-	<b>Bus leaves for Conference Dinner Excursion</b>				

## Tue, August 30, 2011

<b>8:40-9:00</b>	<b>Day Overview</b>			
<b>9:00-9:40</b>	<b>Keynote Dave Miller: GeoGebra and the interactive whiteboard. Audimax</b>			
<b>9:40-10:00</b>	<b>Coffee Break</b>			
<b>10:00-12:00</b>	<b>Parallel session 3</b>			
TE, Room: HS 5	CSC, Room: HS 3	GD, Room: HS 4	SG, Room: Audimax	Room: HS 6
Chairs: Mark Dawes Adrian Oldknow	Chairs: Mike May George Sturr	Chairs: Markus Hohenwarter Michael Borchers	Chairs: Evelyn Stepancik Esteban Diaz	<b>Christian Kohls</b> (SMART Technologies) <u>Workshop</u> Lesson design for Whiteboards (60 min)
<b>Gerrit Stols</b> Does the use of technology make a difference in pre-service teachers' geometric cognitive growth?	<b>Anton Vrdoljak</b> Advanced Simulation for Solving Van der Waals' Equation	<b>Gabor Ancsin</b> GeoGebraMobile – GeoGebra on mobile devices	<b>Takaci Durdica and Takaci Arpad</b> Generalized function and Geogebra	
<b>Gerson Pastre Oliveira and Celina A.A.P. Abar</b> Pedagogical workshops of Mathematics Education and ICTs	<b>Péter Körtesi</b> Using GeoGebra in Teaching	<b>Julian Lettner</b> GeoGebra on iPad and Android tablets	<b>Miguel A. Abanades</b> LocusEqu: a command to (symbolically) obtain the equation of a locus	
<b>Nada Razpet</b> Explanation of a phenomenon with picture, equation and simulation	<b>Milad Afshinmanesh</b> Dynamic Teaching	<b>Darko Drakulic and Philipp Birklbauer</b> Implicit Curves	<b>Franco Nicolae</b> Locus Examples and a Rainbow of Algebra	
<b>Marko Razpet</b> A diacaustic curve	<b>Werner Olivier</b> Using GeoGebra applets as a supplement to a technology based skills upgrade programme for in-service mathematics educators in South Africa	<b>Michael Borchers</b> Using GeoGebra & JavaScript to Create a Sophisticated Online Assessment System	<b>Roman Hasek</b> Numerical analysis of a planar motion	
<b>Valentyna Pikalova</b> Problem Solving with Pre-service Teachers	<b>Dr. P. K. Chaurasia and Prof. I. K. Rana</b> Geogebra Kit in Geometry at secondary Stage	<b>Miguel A. Abanades and Francisco Botana</b> An Automatic Deduction Environment for GeoGebra Based on the Open Source Computer Algebra System Sage		
<b>12:00-13:20</b>	<b>Lunch</b>			
<b>13:20-14:00</b>	<b>Keynote Luc Trouche: Considering interactions between teachers and resources at the heart of teacher development: a case study in dynamic geometry environments. Audimax</b>			
<b>14:00-15:30</b>	<b>Parallel Sessions 4</b>			
TE, Room: HS 5	RP, Room: HS 3	PE, Room: HS 4	OE, Room: Audimax	Room: HS 6
Chairs: Mark Dawes Adrian Oldknow	Chairs: Gabriel Stylianides Anders Sanne	Chairs: Eleonora Faggiano Damjan Kobal	Chairs: Morten Misfeldt Peter Boon	<b>Christian Kohls</b> (SMART Technologies) <u>Workshop</u> Lesson design for Whiteboards (60 min)
<b>Sp Kwan</b> Mathematics, Origami and GeoGebra	<b>Ysette Weiss-Pidstrygach</b> On peri- and diameters: going around an passing through	<b>Eleonora Faggiano and Rosa Laura Ancona</b> GeoGebra and IWB: current practices and open problems	<b>Morten Misfeldt and Simon Hempel Jørgensen</b> GeoGebra e-learning modules for in-service training of teachers	
<b>Kan Kan Chan</b> Teachers' perception of Geogebra for Mathematic Education	<b>Oleksiy Yevdokimov</b> Where do conjectures come from? Research into the interplay between conjecture and proof	<b>Josip Klicinovic</b> Geometry and art using GeoGebra	<b>Matija Lokar</b> Screencasts in Teaching with GeoGebra	
<b>Hatice Akkoc</b> Pre-service mathematics teachers' assessment practices using Geogebra	<b>Světlna Tomiczková</b> Computer-Aided Learning and Teaching Geometry in Courses for Engineering	<b>Peter Boon</b> Designing versatile digital learning materials for mathematics education	<b>Subhan Sabar</b> Easy GeoGebra Manager Plugin, Share GeoGebra files easily at Wordpress	
<b>Doru Paunescu and Đurđica Takači</b> A Geogebra teaching strategy: gaming-conjecturing-proving	<b>Mats Brunström and Maria Fahlgren</b> Activities in a Dynamic Software Environment that Engage Students in the Process of Proving	<b>Rainer Kaenders</b> Functions can not be seen	<b>Tomaž Kranjc</b> GeoGebra as a tool for independent creations of simulations in physics instruction	
<b>Freyja Hreinsdóttir</b> Some views of teachers on the use of GeoGebra in Mathematics Education in Iceland	<b>Georg Wengler</b> Oblique Projection and Affine Transformation	<b>Alfredo Bautista, Zekeriya Karadag and Yi-Yin Ko:</b> The Use of GeoGebra in Primary Education: Challenges and Opportunities	<b>Peter Boon</b> Designing digital math activities with de DME (Digital Math Environment)	
<b>15:30-16:00</b>	<b>Coffee Break</b>			
<b>16:00-18:00</b>	<b>Working Groups: Session 2</b>			
<b>19:00-</b>	<b>Castle Dinner with Music (optional: please sign up on Monday at Registration Desk)</b>			

## Wed, August 31, 2011

<b>8:40-9:00</b>	<b>Day Overview</b>
<b>9:00-9:40</b>	<b>Keynote Paul Drijvers: Skills and Technology Audimax</b>
<b>9:40-10:00</b>	<b>Coffee Break</b>
<b>10:00-12:00</b>	<b>Working Groups: Session 3</b>
<b>12:00-13:20</b>	<b>Lunch</b>
<b>13:20-14:00</b>	<b>Working Groups: Session 4</b>
<b>14:00-15:30</b>	<b>Working Groups: Session 5</b>
<b>15:30-16:00</b>	<b>Coffee Break</b>
<b>16:00-18:00</b>	<b>Audimax: Working Groups Summaries &amp; Conference Closing</b>

<b>Working Groups</b>	<b>Participants</b>	<b>Chairs</b>	<b>Rooms</b>
Primary Education (PE)	15	Eleonora Faggiano Damjan Kobal	Audimax (with Promethean Board)
Interactive Whiteboards (IW)	10	Dave Miller Zsuzsanna Papp-Varga	Audimax (with Promethean Board)
Reasoning-and-Proving (RP)	15	Gabriel Stylianides Anders Sanne	SRA 1
GeoGebra Institutes (GI)	7	Zsolt Lavicza Istvan Juhos	SRA 1
College Statistics and Calculus (CSC)	20	Mike May George Sturr	HS 5
Teacher Education (TE)	29	Mark Dawes Adrian Oldknow	HS 3
GeoGebra Developers (GD)	10	Markus Hohenwarter Michael Borchers	HS 6 (with Smart Board)
Secondary Geometry (SG)	18	Evelyn Stepancik Esteban Diaz	HS 4
Secondary Algebra (SA)	14	Paul Drijvers Ornella Robutti	HS 4
Online Education (OE)	16	Morten Misfeldt Peter Boon	SRA 2

### Technical Support during Sessions

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### Conference Wiki

<http://ggbconference2011.pbworks.com>

with materials and presentations