



MatemaTech

**Minutes of the project workshop M00210 (Mathematics across borders)**

30. 3.2012 - 31.3.2012

**Venue:** Hotel Kovářov, Kovářov, part of the village Frymburk.

**Participants:** see full list.

**Program Focus:** Functions, equations, inequalities, systems of equations and inequalities - the use of GeoGebra.

**Program:**

**Friday, March 30, 2012**

11:00 – 12:00	Meeting of participants, informal discussion.
12:00 – 13:00	Lunch
13:00 – 13:30	Welcome (Jan Zahradnik), Workshop initiation (Markus Hohenwarter, Pavel Pech), Project goals overview (Jan Zahradnik).
13:30 – 15:00	Presentation of Austrian colleagues (moderated by Markus Hohenwarter): <ul style="list-style-type: none"><li>• Markus Hohenwarter: Mathematech Group in Upper Austria.</li><li>• Hubert Pöchtrichter: Mathematical discovery and design using GeoGebra.</li><li>• Edith Lindenbauer: Application tasks in mathematics, solved using GeoGebra.</li></ul>
15:00 – 15:30	Coffee Break
15:30 – 17:00	Presentation of Czech colleagues (moderated by Pavel Pech): <ul style="list-style-type: none"><li>• Eva Vortelová, Marie Stejskalová, Bozena Kunová: Solving equations and inequalities using GeoGebra.</li><li>• Marek Vejsada: Linear function - meaning of coefficients, applied problems solved with the help of GeoGebra.</li><li>• Irena Strausova: Quadratic function, meaning of coefficients, applied problems solved with the help of GeoGebra.</li><li>• Matěj Bina: Graphic design of mathematics - examples of thesis.</li></ul>
17:00 – 18:00	GeoGebra - exchange of experiences and suggestions based on project work (discussion - moderated by Pavel Pech and Markus Hohenwarter).
18:00 – 19:30	Dinner
19:30 – 22:00	Debate about problems of teaching mathematics in both partner countries (following an interview with the President of the Union of Czech Mathematicians and Physicists Dr. Josef Kubat showed in Hyde Park on CT 24).



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## Saturday, March 31, 2012

8:30 -9:30	Presentation of Czech colleagues (moderated by Pavel Pech): <ul style="list-style-type: none"><li>• Jitka Nováková, Libuse Travnickova: equations, systems of equations - graphic design program in GeoGebra, application tasks.</li><li>• Hana Mahnelová: Function, use GeoGebra program for solving the differential and integral calculus.</li></ul>
9:30 – 10:30	Presentation of Austrian colleagues (moderated by Markus Hohenwarter): <ul style="list-style-type: none"><li>• Zoltan Kovacs: proving mathematical theorems by computer.</li><li>• Corinna Krohn: Interactive whiteboard.</li><li>• Andreas Kleiner: The idea of a network of partner schools.</li></ul>
10:30 – 11:00	Coffee Break
11:00 – 12:00	Discussion (moderated by Roman Hasek): <ul style="list-style-type: none"><li>- Creation of a common website (bilingual website Ge/ Cz, on the Czech side <a href="http://www.matematech.cz">www.matematech.cz</a>, on the Austrian side <a href="http://www.mathematech.at">www.mathematech.at</a>).</li><li>- Jakub Jareš: Preparation of research of interest in mathematics, preparation of the questionnaire (Zsolt Lavicza promised help from Cambridge University).</li><li>- Markus Hohenwarter: Informed about newly created web address (<a href="http://budweislinz.pbworks.com/w/page/50948560/First%20Meeting%20Agenda">http://budweislinz.pbworks.com/w/page/50948560/First%20Meeting%20Agenda</a>), intended for communication of project team members and placement their presentations.</li><li>- Debate about the date and topic for the next workshop (June 29<sup>th</sup> and 30<sup>th</sup>, 2012, place and venue will be announced by Austrian organizers later. Suggested program: Transfer of experiences with the GeoGebra project and its conclusions to teachers - methodology, a form of seminars, a form of web pages).</li></ul> Conclusion: Jan Zahradnik
12:00 – 13:30	Lunch, informal discussions about problems of teaching mathematics.
13:30 – 16:30	Trip to Cesky Krumlov.

Recorded by Jan Zahradnik, 10/04/2012



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