

## Improving Quality of Higher Education Based on Development of Multilateral Institutional Cooperation

### 13th mathematics conference in Nitra

#### Conference program

Start	End	
<b>Wednesday, June 17, 2015 (CPU in Nitra)</b>		
17:00	18:00	Arrival to Nitra, Accommodation
18:00	20:00	Informal meeting with organizing committee Tuning the conference program-schedule The conference proceedings template discussion (Room THC 117)
<b>Thursday, June 18, 2015 (CPU in Nitra)</b>		
8:00	8:50	Welcome Reception and Registration Department of Mathematics Faculty of Natural Sciences Constantine the Philosopher University in Nitra <i>second floor corridor</i>
Plenary Session - room <b>THC 305</b> Chair: Soňa Čeretková		
8:50	9:00	<b>Grand Opening</b> prof. RNDr. Libor Vozár, CSc., dean of FNS CPU in Nitra prof. RNDr. Ondrej Šedivý, CSc., chair of scientific committee
9:00	9:50	<b>Plenary Lecture 1</b> Assoc. Prof. Mette Susanne Andresen, Ph.D., Department of Mathematics, University of Bergen, Norway Lecture: <b>STUDENTS' CREATIVITY IN PROBLEM SOLVING</b>
10:00	10:50	<b>Plenary Lecture 2</b> Assoc. Prof. RNDr. Vojtech Bálint, CSc. The Faculty of Operation and Economics of Transport and Communications, University in Zilina Lecture: <b>SOME FAMOUS PROBLEMS OF DISCRETE GEOMETRY</b>
11:00	11:15	<b>Coffee Break</b> (Room THC 206)
11:15	12:10	<b>Plenary Lecture 3</b> Assoc. Prof. Tomáš Vetrík, PhD., Department of Mathematics and Applied Mathematics University of the Free State, Bloemfontein, South Africa Lecture: <b>SELECTED TOPICS IN THE EXTREMAL GRAPH THEORY</b>
12:10	13:30	<b>Lunch</b> CPU in Nitra

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13:30	14:15	<p><b>Plenary Lecture 4</b> Prof. RNDr. Jozef Fulier, CSc., Department of Mathematics Faculty of Natural Sciences Constantine the Philosopher University in Nitra, Slovak Republic <b>Lecture: SOME ASPECTS OF THE RELATION BETWEEN THE HISTORY OF MATHEMATICS AND MATHEMATICS EDUCATION: THE CASE OF INFINITE SERIES</b></p>
14:15	14:30	<p><b>Coffee Break</b> (Room THC 206)</p>
<p><b>Session - room THC 212</b> Chair: Dušan Vallo</p>		
14:30	14:45	1. JAROSLAV BERÁNEK – JAN CHVALINA <b>Extensions of Cascades Created by Certain Function Systems</b>
14:45	15:00	2. LUKÁŠ LEDNICKÝ <b>Problem posing as a tool for developing and designing tasks</b>
15:15	15:30	3. JOANNA MAJOR <b>On graphic representation of a tangent line to a function - calculus without the concept of limit</b>
15:30	15:45	4. MÁRIA KMEŤOVÁ <b>Rediscovered anaglyph in program Geogebra</b>
15:45	16:00	5. TADEUSZ RATUSIŃSKI, MAREK JANASZ <b>The examples of ICT usage to forming the mathematical language's precision</b>
16:00	16:15	6. MARTIN BILICH <b>Pencils of Planes and Spheres in Problem Solving</b>
16:15	16:30	7. GERGELY WINTSCHE <b>The principles of the new mathematics textbooks in Hungary</b>
16:30	16:45	8. ZUZANA MALACKÁ <b>Testing of the fundamental mathematical knowledge</b>
16:45	17:00	9. PETER VANKÚŠ – IVANA OCHODNIČANOVÁ <b>Comparison of two research tools measuring attitudes towards mathematics</b>
17:00		<p><b>Social Event</b> (Room THC 117 - 118)</p>

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**Friday, June 19, 2015 (CPU in Nitra)**

Plenary Session - room **THC 305**  
Chair: Soňa Čeretková

8:30	9:30	<p><b>Plenary Lecture 1</b> <b>Assoc. Prof. Freyja Hreinsdóttir, Fil. dr.,</b> Faculty of Teacher Education, University of Iceland <b>Lecture: PISA 2012 – PERFORMANCE IN MATHEMATICS IN ICELAND AND SCHOOL SIZE</b></p>
9:30	10:30	<p><b>Plenary Lecture 2</b> <b>Assoc. prof. Slagjana Jakimovik, PhD.,</b> Faculty of Pedagogy "St. Kliment Ohridski", Ss Cyril &amp; Methodius University in Skopje, R. Macedonia <b>Lecture: FUTURE TEACHERS' BELIEFS: MATHEMATICS AS A PROCESS OF INQUIRY VS MATHEMATICS AS A SET OF RULES</b></p>
10:30	10:45	<p><b>Coffee Break</b> (Room THC 206)</p>
		<p><b>Session 2 (Room THC 212)</b> Chair: Dušan Vallo</p>
10:45	10:55	1. DANA ORSZÁGHOVÁ <b>The graphic visualization – the part of the solution of applied mathematical tasks</b>
10:55	11:05	2. PETER VANKÚŠ – IVANA OCHODNIČANOVÁ <b>Comparison of two research tools measuring attitudes towards mathematics</b>
11:05	11:15	3. JÁN ŠUNDERLÍK - ĽUBOMÍR RYBANSKÝ <b>Developing and Piloting an Instrument for Measuring Upper Secondary Mathematics Teachers Beliefs in Nitra Region</b>
11:15	11:30	4. MAREK VARGA – ZUZANA NAŠTICKÁ <b>Infinite Series in Physics</b>
11:30	11:45	5. SOŇA ŠVECOVÁ – JANKA DRÁBEKOVÁ– LUCIA RUMANOVÁ <b>Mathematical literacy assesses student knowledge</b>
11:45	12:00	6. DUŠAN VALLO – VILIAM ĎURIŠ <b>Notes on Pythagorean tetrahedron</b>
12:00		<p><b>Lunch</b> CPU in Nitra</p>

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		<b>Session 3 (Room THC 217)</b> Chair: Lucia Rumanová	
10:45	10:55		1. ŠVECOVÁ VALÉRIA – PAVLOVIČOVÁ GABRIELA <b>Geometric figures in concept maps in primary education</b>
10:55	11:05		2. ZUZANA VITÉZOVÁ – ZUZANA NAŠTICKÁ <b>Deficiencies in geometric language register and knowledge of pre-service teachers for primary education</b>
11:05	11:15		3. ANTAL CSÁKY - EDITA SZABOVÁ - ZUZANA NAŠTICKÁ <b>Analysis of errors in student solutions of context-based mathematical tasks</b>
11:15	11:30		4. ANDREJ FERKO - LILLA KOREŇOVÁ - ŠTEFAN SOLČAN <b>Project “E-matik+” education for mathematics teachers</b>
11:30	11:45		5. KRISTÍNA CAFIKOVÁ– ANNA HREŠKOVÁ – EDITA SZABOVÁ <b>Using a Non-Traditional Teaching Method in Mathematics Education</b>
11:45	12:00		6. LUCIA PLOTHOVÁ <b>The analysis of students’ solutions of the word problem</b>
12: 00		<b>Lunch</b> CPU in Nitra	
13:00	15:30	<b>Geogebra book - new tool for mathematics teacher</b> Workshop for math teachers – elementary school – room THC 119 Lecturers: JÁN ŠUNDERLÍK, LUCIA RUMANOVÁ, KITTI VIDERMANOVÁ	
		<b>Saturday, June 20, 2015 (CPU in Nitra)</b>	
09:30	11:30	<b>Conference evaluation</b> <b>Plenary discussion and reflection</b> (Room THC 2012)	
12:00		<b>Farewell Lunch</b> CPU in Nitra	

13<sup>th</sup> mathematical conference in Nitra was also supported



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