

Novi Sad—Szeged

Winter School on

Non-Standard Forms of Teaching Mathematics and Physics: Experimental and Modeling Approach

Novi Sad, February 6th –8th, 2015



Programme

Friday, February 6 th , 2015	
A1, Department of mathematics and informatics	
12.00 – 13.30	Registration
13.30 – 13.45	Opening address Introduction IPA Project MATHPHYS–BRIDGE
13.45 – 14.45	<i>János Karsai: Teaching Math for Applied Sciences</i>
14.45 – 15.45	<i>Marko Nedeljkov: Mathematical modeling in Physics</i>
15.45 – 16.00	Coffee break
16.00 – 17.00	<i>Mirjana Mikalački: Positional games on graphs</i>
17.00 – 18.30	High school student presentations <i>Kristina Silađi: On the Impossibility of some Geometrical Constructions</i> <i>Jovan Jeromela: On the visualization of definite integral</i> <i>Stojan Važić: Database in Java</i> <i>Nikola Zeljković: Information system for trade business support</i> <i>Žutić Matija, Zeljković Miljana, Slović Milica, Ivanovski Marija, Nikola Popov, Aleksandar Ćirić: Platonic solids in ecology, electrical engineering and economics- lesson review</i>
18.30 –	Welcome reception

Saturday, February 7th, 2015

9.00 – 10.00	<i>Srdjan Skrbić</i> : Parallel Scientific Computing at the University of Novi Sad	
10.00 – 12.00	Researchers, PHD Students, Math Teachers (A5) <i>Sanja Konjik</i> : The properties of fractional calculus <i>Đurđica Takači, Ivana Milanović</i> : Function given integral, visualization of fractional calculus (workshop on computer)	High School students (A1) <i>Srdjan Skrbić</i> : Wolfram Alpha in learning mathematics
12.00–12.30	Lunch break with Coffee	
12.30 – 13.30	Researchers, PHD Students, Math Teachers (A5) <i>Gergely Röst</i> : Take a shower like a mathematician! - an introduction to time delays	High School students (A1) <i>Đurđica Takači</i> : GeoGebra in learning mathematics
13.30 – 15.00	Researchers, PHD Student <i>Maria Vittoria Barbarossa</i> : Introduction to Mathematical Epidemiology <i>Kyeongah Nah</i> : Mathematical modelling of vector-borne disease <i>Eva Jungabel</i> : On homomorphism-homogeneous point-line geometries II	Math Teachers (RC10) <i>Olivera Klisurić</i> : Biopack in teaching physics (Biopack training)
15.00 – 15.30	Coffee break and snacks	
15.30–17.30	Researchers, PHD Students (RC10) <i>Olivera Klisurić</i> : Biopack in teaching physics (Biopack training)	Math Teachers and High School students (A5) <i>Jelena Tatar</i> : Parametric presentation of Functions <i>Radoslav Božić</i> : Dinamic geometry and paramteric presentation of functions <i>Vanja Kostić, Tanja Sekulić</i> : Mathematical modelling in physics <i>Ivana Antic</i> : Games in Math <i>Aleksandar Milenkovic</i> : Mathematical modelling with Mathematica Tatjana Stanković, Zoran Radović, 1+1=???? <i>Marina Jokić</i> : Dynamic software in solving mathematical problems
17.30–19.30	Math Teachers, Researchers, PHD Students Workshop: <i>Đurđica Takači</i> : The graph of parametric functions given with parameter and dynamic geometry	

Sunday, February 8th, 2015

8.00 – 9.00	Math Teachers (RC10) <i>Đurđica Takači</i> : Workshop: Functions given with parameter Illusions	
9.00 – 10.15	Researchers, PHD Students, Math Teachers (A5) <i>Mirjana Jovanovic</i> : Mathematical modelling <i>Đurđica Takači, Gordana Stankov, Ivana Milanović</i> : Examining functions-collaborative learning <i>Vladimir Francisti</i> : The Platform for Initial Test of Students Knowledge	
10.15 – 10.45	Coffee break	
10.45–11.45	Researchers, PHD students RC10 <i>Arpad Takaci</i> : Mathematical modelling <i>Želko Lučić</i> : Monte Carlo simulations with Markov chains and Metropolis – Hastings algorithm <i>Nemanja Todorović</i> : Simulation of traffic lights, Junctions	Teachers and high school students A1 <i>Attila Mader</i> : Tablets as a tool for learning
11.45 – 12.45	Researchers, PHD students RC10 <i>Sanja Teodorovic</i> : Analysis of mathematical models in medicine and sciences	Teachers and high school students A5 <i>Peter Eszteleczki, Gábor Kőrösi</i> : E-learning and M-learning in Serbia and abroad (presentation of a self-developed educational framework system)
12:45-13:15	Closing Conference	
13.15–14.15	Lunch	
14.15–16.00	Math Teachers (RC10) Workshop: <i>GeoGebra</i> in teaching	