



**CONSTANTINE THE PHILOSOPHER UNIVERSITY IN NITRA  
FACULTY OF NATURAL SCIENCES**

**15<sup>TH</sup> INTERNATIONAL SCIENTIFIC CONFERENCE  
OF **PhD. STUDENTS**,  
**YOUNG SCIENTISTS AND PEDAGOGUES****

# **PROGRAM**



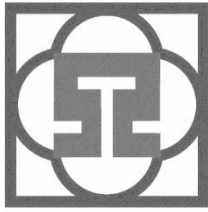
**SOLVE SCIENCE!**

**OCTOBER 22, 2014**

**NITRA SLOVAK REPUBLIC**

**<http://conferences.ukf.sk/phdconf2014>**

# THE CONFERENCE IS ORGANIZED BY



Faculty of Natural Sciences

Constantine the Philosopher University in Nitra

## SESSIONS

### 1. Session (Room P-2)



**Biology and Genetics**

### 2. Session (Room C-305)



**Ecology and Environmental Sciences**



**Geography and Regional Development**



**Chemistry**

### 3. Session (Room C-212)



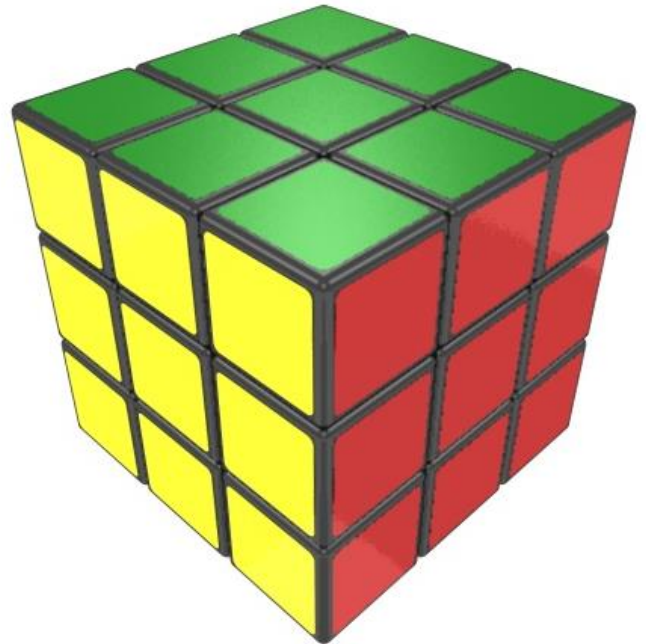
**Mathematics**



**Informatics**



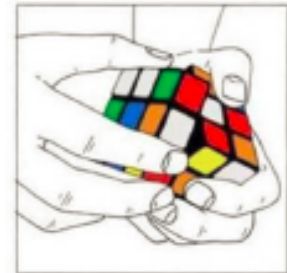
**Physics**



# CONFERENCE PROGRAM

**Wednesday, October 22, 2014**

<b>8:00 – 8:50</b>	<b>Registration of Participants</b>
<b>9:00 – 9:10</b>	<b>Opening Ceremony (P-2)</b>
<b>9:15 – 10:45</b>	<b>Parallel Sessions</b>
<b>10:45 – 11:00</b>	<b>Coffee Break</b>
<b>11:00 – 12:30</b>	<b>Parallel Sessions</b>
<b>12:30 – 13:30</b>	<b>Lunch Break</b>
<b>13:30 – 15:30</b>	<b>Parallel Sessions</b>
<b>15:30 – 16:00</b>	<b>Coffee Break</b>



**Presentation:** There is time limit 10 minutes for each presentation and 5 minutes for discussion.

**Conference Language:** English, Slovak, Czech

Participants have a **laptop** with a **data projector** available. File (in pptx format) with the presentation will be copied on the laptop before the session. Presentations must be written in English.

# Wednesday, October 22, 2014



## 1. Session

**Room: P-2 (Ground Floor)**

**Session Chairs: doc. Ing. Ida Petrovičová, PhD.  
doc. RNDr. Roman Kuna, PhD.  
doc. Ing. Jozef Trandžík, PhD.**

**9:15 – 9:30** Aneta Štochmaľová, Attila Kádasi, Richard Alexa, Alexander V. Sirotkin  
Roobos, Ginkgo and Flaxseed can Affect Basal and Igf-I-Regulated Proliferation and Apoptosis of Porcine Ovarian Granulosa Cells

**9:30 – 9:45** Hana Ďúranová, Veronika Kováčová, Ramona Babosová, Radoslav Omelka, Marcela Capcarová, Monika Martiniaková  
Evaluation of Patulin Effect on Femoral Bone Structure in Female Rabbits

**9:45 – 10:00** Barbora Kulíková  
Several Aspects of Embryo Cryopreservation: Focus on Rabbit

**10:00 – 10:15** Miroslav Perniš, František Strejček, Rahul Deshmukh, Olga Østrup, Morten Vejsted, Martin Morovič, Dušan Paál, Heiner Niemann, Jozef Laurinčík, Poul Hyttel  
Chromatin Dynamics Aberration in Embryos Produced by Parthenogenetic Activation

**10:15 – 10:30** Zuzana Gregorová, Marína Maglovski, Patrik Mészáros, Roman Kuna, Jana Libantová, Jana Moravčíková, Pavol Hauptvogel, Ildikó Matušiková  
Physiological Changes and Chitinases Occurrence in Wheat under Drought

**10:30 – 10:45** Veronika Csákyová, Melinda Nagy, Aranka Csósz, Mária Bauerová  
Determination of Haplogroups Based on the Mitochondrial Dna of Human Ancient Samples Derived from the Cemetery Nitra-Šindolka

**10:45 – 11:00 Coffee Break**

**11:00 – 11:15** Csilla Patasi, Marian Farkašovský  
The Role of BNI5 in Septin Filaments Assembly

**11:15 – 11:30** Magdaléna Wágnerová, Lucia Ančicová, Anna Chalupková, Zuzana Hrabovská, František Kostolanský, Eva Varečková, Jela Mistríková  
Mutually Beneficial Gammaherpesviral and Influenza Co-Infection

**11:30 – 11:45** Dušan Paál, Tomáš Slanina, František Strejček, Miroslav Perniš, Martin Morovič, Peter Massányi  
The effect of Crude glycerol on selected Rabbit Spermatozoa Motility parameters In Vitro

**11:45 – 12:00** Matúš Šťastný, Jaroslav Gasper, Miroslav Bauer  
Genetic characterization of Carniolan Honeybee Population using Microsatellite Markers

**12:00 – 12:15 Ivana Boboňová, Monika Martiniaková, Radoslav Omelka, Zuzana Hájková, Róbert Toman**

The Effect of Diet Supplementation with Bee Pollen on Femoral Bone Structure in Adult Male Rats

**12:15 – 12:30 Martina Tkáčová, Vladimíra Krajčovičová, Mária Adamkovičová, Radoslav Omelka**

Effect of BstBI Parathyroid Gene Polymorphism on Osteoformation Markers Produced by Osteoblasts

**12:30 – 13:30 Lunch Break**

**13:30 – 13:45 Ramona Babosová, Monika Martiniaková**

Toxic Effects of T-2 Toxin: A Review

**13:45 – 14:00 Veronika Masárová, Ján Kraic**

Microsatellites in Genomic DNA of Papaver Somniferum L.

**14:00 – 14:15 Martina Koubová, Jaroslav Michalko, Andrej Kormuťák**

Screening of Selected Microsatellite Markers for Population Genetic Studies of Hybrid Pines (Pinus Mugo x Pinus Sylvestris)

**14:15 – 14:30 Kornélia Petrovičová, Stanislav David**

Biodiversity of Dragonflies of Tribeč, Vtáčnik and Pohronský Inovec Mountains

**14:30 – 14:45 Denisa Súkeníková, Dušan Gömöry, Andrej Kormuťák**

Fecundity and Seed Quality in Putative Hybrid Swarms of Scots Pine and Mountain Dwarf Pine

**14:45 – 15:00 Monika Ábelová, Stanislav David**

The Expansion and Habitat Preference of Crocothemis Erythraea (Brullé, 1832) in Slovakia

**15:00 – 15:15 Peter Klimant, Andrea Candráková, Michal Ambros**

Ectoparasites (Acari: Mesostigmata) and their Hosts (Rodentia) at Selected Sites of Podunajská Nížina Lowland

**15:15 – 16:00 Coffee Break**



## **2. Session**

**Room: C - 305 (3. Floor, Block C)**

**Session Chairs: prof. RNDr. František Petrovič, PhD.  
RNDr. Lucia Šolcová, PhD.  
doc. Ing. Mária Porubská, PhD.**

**9:15 – 9:30** Alexandra Tóthová

Floristic Properties of Meadows in the Cadastre of Hodruša – Hámre Village in Štiavnické Vrchy Mountains

**9:30 – 9:45** Katarína Bahnová, Ján Klein, Zdenka Rózová

The Impact of Urban Vegetation on Microclimate in Environment of Nitra Town

**9:45 – 10:00** Lýdia Turanová

Vegetation Changes at Selected Anthropically Affected Areas in Skalnatá Dolina Valley

**10:00 – 10:15** Zuzana Hanzlíková, Mária Porubská

A Review of Wool Modifications by Plasma Influence

**10:15 – 10:30** Michal Hudec, Melánia Feszterová

Heavy Metal Distribution Between Fractions of Humic Substances

**10:30 – 10:45** Eva Jamrichová, Mária Hajnalová, Peter Tóth

Human Impact on the Holocene Vegetation of Parížske Močiare Marshes in SW Slovakia

**10:45 – 11:00 Coffee Break**

**11:00 – 11:15** Kristýna Svobodová

The Runoff Generation on the Catchment Affected by Bark Beetle Infestation in Bavarian Forest National Park

**11:15 – 11:30** Jana Kaiglová, Jakub Langhammer

Numerical Modelling of Gravel Remobilization Competence in Mountain Stream

**11:30 – 11:45** Matej Vojtek

Estimation of N-Year Maximum Discharges for the Vyčoma Stream (Hájovňa Slače Profile)

**11:45 – 12:00** Jana Vojteková

Landslides and their Impact on Landscape Structure in the Handlová Town

**12:00 – 12:15** Marek Civiň, Alfred Krogmann

Municipal Solid Waste Production as a Negative Impact of Tourism: A Case Study of the Municipality of Donovaly

**12:15 – 12:30** Veronika Selecká

The Possibilities of Utilization of Fly Ash in Civil Engineering

**12:30 – 13:30 Lunch Break**

**13:30 – 13:45 Malvína Čierniková, Petra Hájková**  
Holocene History of the Raised Bog in Martinské Hole Mts.

**13:45 – 14:00 Gabriela Repaská, Katarína Vilinová**  
Medium-Sized Towns of the Nitra Self-Governing Region and their Suburban Processes (Example of the Šaľa and Nové Zámky Towns)

**14:00 – 14:15 Katarína Vilinová, Gabriela Repaská**  
Geographical Distribution of Selected Cancer Types Incidence in the Nitra Self-Governing Region

**14:15 – 14:30 Tomáš Veselovský, Filip Tulis**  
Winter Diet of Long-Eared Owls (*Asio Otus*) in Central Part of Východoslovenská Rovina – Plain

**14:30 – 14:45 Andrej Svorad, Alfred Krogmann**  
Evaluation of Tourist Attractiveness in the Poprad District Through Statistical Materials

**14:45 – 15:00 Michaela Žoncová, Alena Dubcová**  
Diversification of Economic Branches in Communities of Microregion Termal

**15:00 – 15:15 Jozef Straňák, Ivana Škorecová, Lenka Bolešová**  
Assessment of the State of Contamination of the Dlhý Kanál by Harmful Substances in The Močenok Cadastral Area

**15:15 – 15:30 Jela Galková, Ivana Škorecová, Dominik Smažák**  
Influence of Cycle Route on Sport and Recreational Tourism in Village of Močenok

**15:30 – 16:00 Coffee Break**



## **3. Session**

**Room: C - 212 (2. Floor, Block C)**

**Session Chairs: PaedDr. Lucia Rumanová, PhD.  
doc. PaedDr. Jozef Kapusta, PhD.  
doc. RNDr. Peter Čerňanský, PhD.**

**9:15 – 9:30 Antal Csáky, Kristína Cafiková**

Calculation of the Arithmetic Mean in the Sixth Grade of Elementary School – How to Attract the Interest of Students and Explore their Shortcomings at the Same Time

**9:30 – 9:45 Edita Szabová, Anna Hrešková**

Applications of Parametric and Non-Parametric Tests

**9:45 – 10:00 Lukáš Lednický**

Discovering Eulerian Trails

**10:00 – 10:15 Magdalena Tomanová**

The Role of Mathematics in Education at Universities of Economics

**10:15 – 10:30 Ivana Škorecová, Ľubomír Zelenický, Aba Teleki**

Analysis of the Slovak Metrics of Readability

**10:30 – 10:45 Ľubomír Benko**

Modelling the Behaviour of Web Users

**10:45 – 11:00 Coffee Break**

**11:00 – 11:15 Monika Papoušková**

The Possibility of Using Rough Sets Theory in Insurance Industry

**11:15 – 11:30 Jarmila Haláková**

Computer Assisted Translation – A Curse or a Blessing of Translator's Craft?

**11:30 – 11:45 Tivadar Baltazár, Miloš Pejchal, Miroslav Vachún, Ildikó Varga**

Non-Linear Height-Diameter Regression Models for Different Woody Species in the Presence of European Mistletoe (*Viscum Album L.*)

**11:45 – 12:00 Soňa Čeretková, Edita Smiešková, Zuzana Naštická**

Geometry in Slovak Blueprint

**12:00 – 12:15 Libor Klubal, Kateřina Kostolányová**

IPAD Integration into the Current Professional Practice of Teachers in Primary and Secondary Schools

**12:15 – 12:30 Martin Lamr, Tomáš Lamr, Pavel Petr**

Resource Constrained Project Scheduling Problem: Minimalization Penalty Costs of Projects as an Alternative Optimization Criterion

**12:30 – 13:30 Lunch Break**



**13:30 – 13:45 Haile Meaza**

Application of Analytic Network Process for the Assessment and Evaluation of Software Product Quality

**13:45 – 14:00 Kuchtíková Eva, Komárková Jitka, Tenkrátová Radka, Pásler Miroslav**

User Testing of Web-Based GIS

**14:00 – 14:15 Zuzana Vítězová**

Board Games in the Mathematics Education

**14:15 – 14:30 Lucia Plothová**

Mathematical Modelling in Mathematics Education

**14:30 – 14:45 Ján Ondruška, Igor Štubňa, Viera Trnovcová**

Polarization and Depolarization Currents in Kaolin

**14:45 – 15:00 Jaroslav Reichel**

Reliability/Item Analysis of Computational Statistics Test

**15:00 – 16:00 Coffee Break**