

**AGRICULTURAL UNIVERSITY  
OF GEORGIA**

**ASSOCIATION OF PROFESSIONAL  
CHEMISTS OF GEORGIA**



## **PROGRAM**

# **8-th EURASIAN MEETING ON HETEROCYCLIC CHEMISTRY**

**TBILISI, GEORGIA  
20-24 SEPTEMBER, 2014**

**[WWW.CHEMISTRY.GE/CONFERENCES/EAMHC-2014](http://WWW.CHEMISTRY.GE/CONFERENCES/EAMHC-2014)**

## SESSIONS OF THE CONFERENCE

### 20 September 2014

15.00-18.00	Registration
18.00 -18.30	Opening Ceremony
18.30-20.00	Welcome Party
20.00 -	Transfer to Hotel

### 21 September 2014

#### Session 1

Chairmen: Prof. Spinelli, Prof. Attanasi

- 09.15-09.30 Address of organizing committee
- 09.30-10.10 **Enaminones in the synthesis of heterocyclic systems. [2+2] Cycloadditions, ring expansion reactions and other transformations**  
**PL**  
**Branko Stanovnik**  
*Faculty of Chemistry and Chemical Technology, University of Ljubljana, Slovenia*
- 10.10-10.35 **Design, synthesis and pharmacological properties of new thiazole and thiadiazole derivatives**  
**IL**  
**Athina Geronikaki**  
*Aristotle University, Greece*
- 10.35-11.00 **Design, Synthesis, And Pharmacological Properties Of New Cb2 Cannabinoid Receptor Ligands**  
**IL**  
**Pier Giovanni Baraldi**  
*University of Ferrara, Italy*
- 11.15-11.30 **Development of a Safe Cyano(nitro)methylation Agent and Its Application to the Synthesis of Heterocycles**  
**H. Asahara**  
*School of Environmental Science and Engineering , Kochi University of Technology, Japan*
- 11.30-11.50 **COFFEE BREAK**

## Session 2

Chairmen: Prof. El-Kashef, Prof. Katsarava

- 11.50-12.05 **Synthesis of polyhydroxylated quinolizidine and indolizidine scaffold from sugar-derived lactams via one-pot reduction/Mannich/Michael sequence**  
**Bartlomiej Furman**  
*Institute of Organic Chemistry, Polish Academy of Sciences, Poland*
- 12.05-12.20 **Synthesis of Novel Thienopyrazole derivatives**  
**Adel Mohamed Kamal El-Dean**  
*Assiut University, Egypt*
- 12.20-12.35 **Transformations of 3-substituted 2-oxo -2H-1- beznopyranes via enolate derivatives**  
**Nevena Petkova**  
*University of Sofia St. Kliment Ohridski, Bulgaria*
- 12.35-12.50 **Multicomponent Sequential Synthesis of Heterocyclic[3.3.3]Propellanes**  
**Abdolali Alizadeh**  
*Department of Chemistry, Tarbiat Modares Univer, Tarbiat Modares University, Iran*
- 12.50-13.50 **LUNCH**

## Session 3

Chairmen Prof. Geronikaki, Prof. Yus

- 13.50-14.30 **Novel Rearrangements in Targeted Synthesis of Natural Compound Analogs**  
**Victor G. Kartsev**  
*VP, CSO&CEO InterBioScreen, Russia*  
**PL**
- 14.30-14.55 **Cultivating over thirty years the passion to build heterocycles from 1,2-diaza-1,3-dienes**  
**Orazio Antonio Attanasi**  
*Department of Biomolecular Sciences, Section of Organic Chemistry and Organic Natural Compounds, University of Urbino "Carlo Bo", Italy*  
**IL**
- 14.55-15.20 **Aliphatic Nitrocompounds as Strategic Sources of Heterocycles**  
**Roberto Ballini**  
*School of Science and Technology of the University of Camerino, Italy*  
**IL**
- 15.20-15.35 **Structure-activity relationship in the oxygen-containing heterocycles**  
**Nana Kavtaradze**  
*Tbilisi State Medical University, Institute of Pharmacochemistry, Georgia*

15.35-15.50 **Synthesis of new mercaptoprimidines and thienopyrimidines**  
**Abdel-Raheem A. Saddik**  
*Chemistry Department, Faculty of Science, Assiut University, Egypt*

15.50-16.10 **COFFEE BREAK**

**Session 4**  
**Chairman: Prof. Yavari**

16.10-16.35 **Heterocyclic compounds in the design of biodegradable polymers**  
**IL**  
**Ramaz Katsarava**  
*Agricultural University of Georgia, Georgia*

16.35-17.00 **Synthetic Strategies for New Pyrazoles of Potential Biological Activities**  
**IL**  
**Hussein El-Kashef**  
*Department of Chemistry, Faculty of Science, Assiut University, Egypt*

17.30-20.00 **Visit to museum**

**22 September, 2014**  
**Session 5**  
**Chairman: Prof. Stanovnik , Prof. Botta**

9.30-10.10 **[1,4]Thiazino[3,4-c][1,2,4]oxadiazol-3-ones: an examination of their reactivity and of their biological profile**  
**PL**  
**Domenico Spinelli**  
*Department of Chemistry 'G. Ciamician', Alma Mater Studiorum-Università degli Studi di Bologna, Bologna, Italy*

10.10-10.35 **Discovering new applications of chiral N-sulfinyl imines in heterocyclic chemistry**  
**IL**  
**Migel Yus**  
*Spain*

10.35-11.00 **Recent Advances in Appel Salt Chemistry**  
**IL**  
**Panayiotis A. Koutentis**  
*Department of Chemistry, University of Cyprus, Cyprus*

11.00-11.15 **An entry to carbapenem antibiotics scaffold via asymmetric reaction**  
**Marek Chmielewski**  
*Institute of Organic Chemistry, Polish Academy of Sciences, Poland*

11.15-11.30 **COFFEE BREAK**

**Session 6**  
**Chairmen: Prof. Ballini, Prof. Najera**

- 11.30-11.45 **IL** **A new general 3CR leading to 1,4,5-trisubstituted-1,2,3-triazoles**  
**Wim Dehaen**  
*Molecular Design and Synthesis, Department of Chemistry, Belgium*
- 11.45-12.00 **Coumarins derivatives - synthesis and applications**  
**Rostica Nikolova**  
*University of Sofia St. Kliment Ohridski, Bulgaria*
- 12.00-12.25 **Synthetic Investigations in the field of Non-symmetrical Bi-indoles and Tri-indoles**  
**Ioseb Chikvaidze**  
*Javakhishvili Tbilisi State University, Georgia*
- 12.25-12.40 **A new rearrangement during the preparation of condensed furo[2,3-b]pyridines**  
**Anush A. Hovakimyan**  
*Institute of Fine Organic Chemistry, NAS RA, Armenia*
- 12.40-13.40 **LUNCH**

**Session 7**  
**Chairmen: Prof. Dehaen, Prof. Cirrincione**

- 13.50-14.30 **PL** **Selective Ligands for Actinide-Lanthanide Separations**  
**Laurence Harwood**  
*University of Reading, UK*
- 14.30-14.55 **IL** **Benzopyran building blocks: herald of hope for multitarget drug discovery**  
**Fernanda Borges**  
*CIQUP/Department of Chemistry and Biochemistry, Faculty of Sciences of Porto, Porto, Portugal*
- 14.55-15.20 **IL** **Tetrapyrrolic macrocycles: Synthetic features and potential applications**  
**Joze. Cavaleiro**  
*Aveiro University, Portugal*
- 15.20-15.35 **Nucleophilic Transformations Of Five-Membered 2,3-Dioxo Heterocycles By Action Heterocyclic Enamines**  
**Valeriya V. Konovalova**  
*Institute of Technical Chemistry, Ural Branch of Russian Academy of Sciences, Russia*
- 15.35-15.50 **COFFEE BREAK**

Session 8  
Chairman: Prof. Kartsev, Prof. Abu-Orabi

- 15.50-16.15 **PL** **Marine alkaloid nortopsentin analogues inhibitors of cyclin-dependent kinase 1 (CDK1)**  
**Girolamo Cirrincione**  
*Medicinal Chemistry Division, Società Chimica Italiana, Italy*
- 16.15-16.40 **IL** **Three different approaches to target the T315I mutation: ATP-competitive, ATP-non-competitive and 14-3-3**  
**Maurizio Botta**  
*Chemistry and Pharmacy of University of Siena, Italy*
- 16.40-16.55 **Cholinesterase Inhibition of Selected 4-Methylcoumarins in Comparison to their Antioxidant Activity**  
**Sanja Ćavar Zeljković**  
*Centre of Region Haná for Biotechnological and Agr, Palacky University Olomouc, Czech Republic*
- 16.55-17.15 **Brønsted acidic hydrogensulfate ionic liquid immobilized SBA-15 as a green, metal-free and recyclable catalyst for tetrahydrochromenes and hexahydroquinoline carboxylates scaffolds**  
**Sadegh Rostamnia**  
*Department of Chemistry, University of Maragheh, Iran*
- 17.15-17.30 **Density Functional Theory (DFT), Structural Properties, Natural Band Orbital and Energy Studies of Heterocyclic Compound**  
**Shahriar Ghammamy**  
*Department of Chemistry, Faculty of Science, Imam Khomeini International University, Qazvin, Iran*
- 17.30-20.00 **City tour**

23 SEPTEMBER, 2014

Session 9

Chairmen: Prof. Cavaleiro, Assoc.Prof. Koutentis

- 9.30-9.55 **IL** **Reactivity of alpha-halogen substituted pyridinium ylides**  
**Eugene Babaev**  
*Moscow State University, Russia*
- 9.55-10.20 **IL** **Nef-Isocyanide Adducts as key Intermediates for Synthesis of Heterocyclic Compounds**  
**Issa Yavari**  
*University of Tarbiate Modares, Iran*

- 10.20-10.40 **IL** **Effective Conversion of Carbohydrate Molecules to Nitrogen-containing Heterocyclic Derivatives**  
**Jim-Min Fang**  
*National Taiwan University, National Taiwan University, Taiwan*
- 10.40-10.55 **Synthesis Of Nitropyridines By Three Component Ring Transformation Of Dinitropyridone**  
**Le Thi Song**  
*School of Environmental Science and Engineering , Kochi University of Technology, Japan*
- 10.55-11.10 **One-Pot Synthesis And Antioxidant Activity Of Novel Polyhydroxylated 3-Arylcoumarins**  
**Milen G. Bogdanov**  
*Faculty of Chemistry and Pharmacy, University of Sofia, Bulgaria*
- 11.10-11.25 **Encapsulation of anti-arrhythmic heterocyclic compounds into nanoliposomes for oral delivery**  
**Lia Tsiklauri**  
*TSMU Ivel Kutateladze Institute of Pharmacochemis, TSMU, Georgia*
- 11.25-11.40 **COFFEE BREAK**

**Session 10**  
**Chairmen: Prof. Babaev, Prof. Harwood**

- 11.40-11.55 **IL** **Novel synthesis of highly functionalized indoline derivatives via nucleophilic ring transformation reactions of 2', 2'-dicyano-2-oxo-1, 2-dihydrospiroindole-3,3-oxirane**  
**Yasser A. El-Ossaily**  
*Chemistry Department- Faculty of Science, Assiut University- Egypt*
- 11.55-12.10 **Recent developments of the chemistry of 1,2,4-benzotriazinyl radicals**  
**Georgia A. Zissimou,**  
*Department of Chemistry, University of Cyprus*
- 12.10-12.25 **Designing of Ugi/post-transformation reactions for the synthesis of functionalized heterocyclic compounds**  
**Saeed Balalaie**  
*K. N. Toosi University of Technology, Iran*

- 12.20-12.40 **IL** **N-Arylation of Protected Azamacrocycles**  
**Mate Erdelyi**  
*Department of Chemistry and Molecular Biology,  
University of Gothenburg, Sweden*
- 12.40-12.55 **Benzimidazoles: synthesis, biological activity  
and perspectives of their application**  
**Tinatn Bukia**  
*Iv. Javakhishvili Tbilisi State University, Georgia*
- 12.55-13.55 **LUNCH**
- Session 11**  
**Chairmen: Prof. Borges, Prof. Fang**
- 13.55-14.20 **IL** **Synthesis and study of some triazolo  
Isoxazole heterocyclic Compounds**  
**Sultan Abu-Orabi,**  
*Secretary General of Arab Union of Chemists  
and President of Jordanian Chemical Society,  
Jordania*
- 14.20-14.45 **IL** **Multicomponent 1,3-Dipolar Cycloadditions  
of Stabilized Azomethine Ylides**  
**Carmen Najera**  
*Department of Organic Chemistry, Universidad de  
Alicante, Spain*
- 14.45-15.00 **A Convenient Synthesis, Reactions and Anti-  
microbial activity of Some Novel  
selenolo[2,3-c]pyrazole Compounds**  
**Remon M. Zaki,**  
*Chemistry Department- Faculty of Science, Assiut  
University- Egypt*
- 15.00-15.15 **New Route for Synthesis of Cyclic Ketene  
Dithioacetals**  
**Azizollah Habibi**  
*Kharazmi University, Tarbiat Modares University,  
Kharazmi, Iran*
- 15.15-15.30 **Thioureas as Versatile Precursors for  
Synthesis of Important Heterocyclics:  
Benzothiazolyl Substituted Iminothiazo-  
lidinones and Benzamido-oxothiazolidines**  
**Hummera Rafique**  
*University of Gujrat, Pakistan*
- 15.30-15.45 **Porphyrazine-Derived Pd Catalysts: Biphasic  
Suzuki Reactions Where The Catalyst Can Be  
Tracked**  
**D. Bradley G. Williams**  
*Research Centre for synthesis and Catalysis,  
University of Johannesburg, South Africa*
- 15.45-16.15 **COFFEE BREAK**



- 16.15-17.15 **Poster presentations**
- 17.15-18.30 **Closing Ceremony**
- 18.30-19.00 Free time
- 19.00-19.20 Transfer to Restaurant
- 19.20-22.00 Banquet
- 22.00-22.20 Transfer to hotel

**24 September, 2014**

- 9.00-20.00 **Excursion**

- Suzdal, Russia  
September 16-19, 2000
- Novgorod the Great,  
Russia  
September 14-17, 2002
- Novosibirsk (Russia),  
September 12-17, 2004
- Thessaloniki (Greece),  
August 27-31, 2006
- Kuwait  
2008
- Alicante, Spain  
June 30-July 4, 2010
- Istanbul, Turkey  
June 17-21, 2012
- Tbilisi, Georgia  
September 20-24, 2014

## ORGANIZERS



## PARTNERS

