



8<sup>th</sup> International Conference "CHEMISTRY OF NITROGEN CONTAINING HETEROCYCLES"  
in memoriam of Prof. Valeriy Orlov (12<sup>th</sup> - 16<sup>th</sup> November, 2018, Kharkiv, Ukraine)

## CNCH-2018 >> Program

### Types of reports

**PL** – plenary lecture (60 min)  
**O** – oral report (20 min)

**INV** – invited lecture (30 min)  
**S** – short talk (15 min)

<u>Monday, November 12</u>	
<b>V.N. Karazin Kharkov National University</b>	
<i>Svobody sq. 4 , Main Building, the 2<sup>nd</sup> floor, Assembly Hall, reception</i>	
Assembly Hall 9:00-13:00	<b>Registration</b>
Assembly Hall 13:00-14:00	<b>Opening ceremony</b> <i>Chairman Prof. Valentyn Chebanov</i>
Assembly Hall 14:00-14:30	<b><u>Prof. Andrey Doroshenko</u></b> V.N.Karazin Kharkov National University <i>Introductory lecture in memoriam of Prof. Valeriy Orlov</i>
<b>PL-1</b>	
14:30-15:30	<b><u>Prof. Erik Van der Eycken</u></b> University of Leuven <i>Synthesis of small complex heterocycles</i>
<b>Coffee-break</b>	
Assembly Hall	<b>Chairman Prof. Andrey Doroshenko</b>
<b>PL-2</b>	
15:45-16:45	<b><u>Prof. Dmytro Volochnyuk</u></b> Enamine Ltd <i>MedChem-relevant building blocks: from definitions and criteria to part of industry</i>
<b>INV-1</b>	
16:45-17:15	<b><u>Prof. Victoria Lipson</u></b> State Institution "V.Ya. Danilevsky Institute for Endocrine Pathology Problems" of the NAMS of Ukraine <i>Glyoxals, Aminoazoles and CH-Acids in Diversity-oriented Synthesis of Azoloazines</i>
<b>O-1</b>	
17:15-17:35	<b><u>Dr. Maksim Kolosov</u></b> V.N.Karazin Kharkov National University <i>Light<sup>®</sup> 5-methyl-4,7-dihydroazolo[1,5-a]pyrimidines and related 3,4-dihydropyrimidin-2(1H)-ones</i>
<b>O-2</b>	
17:35-17:55	<b><u>Dr. Esma Abdurakhmanova</u></b> Institute of Bioorganic Chemistry and Petrochemistry NAS Ukraine <i>New phosphono-peptidomimetics: synthesis and properties</i>
17:55-19:00	<b>Free-time</b>
18:30-20:00	<b>Welcome party</b>

<b>Tuesday, November 13</b> <b>SSI "Institute for Single Crystals" NAS of Ukraine</b> <i>Nauky ave. 60, the 5<sup>th</sup> floor</i>	
<b>Large Hall</b>	<b>Chairman Prof. Erik Van der Eycken</b>
	<b>PL-3</b>
9:00-10:00	<b><u>Prof. Alexander Dömling</u></b> University of Groningen, Groningen Research Institute of Pharmacy <i>MCR-chemistry: From automated nano synthesis to novel bioactive scaffolds to natural product synthesis</i>
	<b>INV-2</b>
10:00-10:30	<b><u>Dr. Philippe Gros</u></b> Universite de Lorraine/CNRS <i>Design of new pyridyl N-heterocyclic ligands and corresponding iron complexes: Application to light harvesting and electron-transfer</i>
	<b>O-3</b>
10:30-10:50	<b><u>Dr. Tetiana Pavlovska</u></b> SSI "Institute for Single Crystals" NAS of Ukraine <i>Domino reactions of 2-amino-4-arylimidazoles with carbonyl and methylene active compounds</i>
10:50-11:05	<b>Coffee-break</b>
<b>Large Hall</b>	<b>Chairman Prof. Sergii Desenko</b>
	<b>INV-3</b>
11:05-11:35	<b><u>Dr. Andrii Monastyrskyi</u></b> The Scripps Research Institute <i>Development of dual casein kinase 1<math>\delta</math>/1<math>\epsilon</math> inhibitors for treatment of breast cancer</i>
	<b>O-4</b>
11:35-11:55	<b><u>Dr. Oleksandr Kozachenko</u></b> Institute of Bioorganic Chemistry and Petrochemistry NAS Ukraine <i>Syntheses of new azolopyrimidines on the basis of 2 acylamino-3,3-dichloroacrylonitriles</i>
	<b>O-5</b>
11:55-12:25	<b><u>Prof. Victor Markov</u></b> Ukrainian State University of Chemical Technology <i>New examples of rearrangement of heminal oxazines under Vilsmeier-Haack reagent</i>
12:25-12:40	<b>Coffee-break</b>
<b>Large Hall</b>	<b>Chairman Prof. Thierry Ollevier</b>
	<b>PL-4</b>
12:40-13:40	<b><u>Prof. Thomas Müller</u></b> Heinrich Heine University Düsseldorf <i>Diversity-oriented synthesis of aggregation-induced emissive Nitrogen heterocycles</i>
	<b>O-6</b>
13:40-14:00	<b><u>Ms. Alisa Morozova</u></b> SSI "Institute for Single Crystals" NAS of Ukraine <i>Chemical behavior of selected aminoazoles in reactions with pyruvic acids</i>
14:00-15:00	<b>Lunch</b>

<b>Tuesday, November 13</b> <b>SSI "Institute for Single Crystals" NAS of Ukraine</b> <i>Nauky ave. 60, the 5<sup>th</sup> floor</i>	
<b>Large Hall</b>	<b>Chairman Prof. Igor Komarov</b>
15:00-16:00	<b>PL-5</b>
	<b><u>Prof. Victor Kartsev</u></b> InterBioScreen Ltd <i>Targeted synthesis of natural compound analogs. reactions and rearrangements</i>
16:00-16:20	<b>O-7</b>
	<b><u>Dr. Sergey Ryabukhin</u></b> Enamine Ltd <i>Synthesis of MedChem-relevant gem-difluorocycloalkane building blocks</i>
16:20-16:40	<b>O-8</b>
	<b><u>Dr. Iryna Omelchenko</u></b> SSI "Institute for Single Crystals" NAS of Ukraine <i>Interplay between stacking, C–H...<math>\pi</math> and C–H...N interactions in the crystals of ortho-substituted 1,10-phenantrolines with aromatic substituents</i>
16:40-16:55	<b>Coffee-break</b>
17:00-18:30	<b>Seminar "Reaxys – the database for Science and Education"</b>
18:30-20:30	<b><u>Poster session 1-88</u></b> <b>Banquet Hall, the 2<sup>nd</sup> floor</b>

<b>Wednesday, November 14</b> <b>SSI "Institute for Single Crystals" NAS of Ukraine</b> <i>Nauky ave. 60, the 5<sup>th</sup> floor</i>	
<b>Small Hall</b> 9:00-18:30	<b><u>Workshop in specific topic "Chemistry for Pharmacy" in russian</u></b> <b>Small Hall, the 5<sup>th</sup> floor</b>
<b>Large Hall</b>	<b>Chairman Prof. Thomas Müller</b>
9:00-10:00	<b>PL-6</b>
	<b><u>Prof. Igor Komarov</u></b> Enamine Ltd <i>(Spiro)heterocycle-containing Peptidomimetics with Photocontrolled Biological Activity</i>
10:00-10:20	<b>O-9</b>
	<b><u>Dr. Vitalii Palchykov</u></b> Oles Honchar Dnipro National University <i>Oxazaheterocycles from epoxy derivatives</i>
10:20-10:40	<b>O-10</b>
	<b><u>Dr. Anton Tverdokhlebov</u></b> Enamine Ltd <i>Synthesis of 2-azolyl-2,2-difluoroethylamines</i>

<b>Wednesday, November 14</b> <b>SSI "Institute for Single Crystals" NAS of Ukraine</b> <i>Nauky ave. 60, the 5<sup>th</sup> floor</i>	
10:40-11:00	<b>O-11</b>
	<u><b>Dr. Dmytro Sysoiev</b></u> University of Konstanz <i>Photochromism of molecular wires tuned with heterocyclic scaffolds</i>
10:00-11:15	<b>Coffee-break</b>
<b>Large Hall</b>	<b>Chairman Dr. Andrii Monastyrskyi</b>
11:15-11:45	<b>INV-4</b>
	<u><b>Prof. Andrea Basso</b></u> Università di Genova <i>Synthesis of Nitrogen-containing heterocycles via elaboration of photoinduced multicomponent adducts</i>
11:45-12:05	<b>O-12</b>
	<u><b>Dr. Maryna Kachaeva</b></u> Institute of Bioorganic Chemistry and Petrochemistry NAS Ukraine <i>Anticancer activity of new 1,3-oxazole derivatives: in silico and in vitro</i>
12:05-12:25	<b>O-13</b>
	<u><b>Dr. Mikhailo Slivka</b></u> Uzhhorod National University <i>Production of condensed triazoles via electrophilic heterocyclization</i>
12:25-12:40	<b>Coffee-break</b>
12:40-13:10	<b>INV-5</b>
	<u><b>Prof. Radek Cibulka</b></u> University of Chemistry and Technology <i>Flavins – not only cofactors but also efficient photocatalysts</i>
13:10-13:25	<b>S-1</b>
	<u><b>Mr. Ihor Pokotylo</b></u> Ukrainian State University of Chemical Technology <i>Synthesis of 4H-1,3,5-Oxadiazine Derivatives Based on N-(2,2,2-Trichloro-1-hydroxyethyl)carboxamides</i>
13:25-14:25	<b>Lunch, Banquet Hall, the 2<sup>nd</sup> floor</b>
<b>Large Hall</b>	<b>Chairman Prof. Alexander Dömling</b>
14:30-15:00	<b>INV-6</b>
	<u><b>Prof. Zoia Voitenko</b></u> Kiev National University Taras Shevchenko <i>Heterocyclic compounds in cycloaddition reactions as an inexhaustible source of ideas and products for medical chemistry and sustainable development</i>
15:00-15:20	<b>O-14</b>
	<u><b>Dr. Nikolay Semenishyn</b></u> A.V. Bogatsky Physico-Chemical Institute of the NAS of Ukraine <i>Polytopic macrocyclic tetrapyrroles and their lanthanide derivatives</i>

<b>Wednesday, November 14</b>	
<b>SSI "Institute for Single Crystals" NAS of Ukraine</b>	
<i>Nauky ave. 60, the 5<sup>th</sup> floor</i>	
	<b>S-2</b>
15:20-15:35	<b><u>Mr. Oleksii Kolomoitsev</u></b> V. N. Karazin Kharkiv National University <i>Photoreactive fused azyridinylpiperazines</i>
15:35-15:50	<b>Coffee-break</b>
	<b>Chairman Dr. Philippe Gros</b>
	<b>INV-7</b>
15:50-16:20	<b><u>Dr. Nazariy Pokhodylo</u></b> Ivan Franko National University of Lviv <i>The unpredicted courses and unexpected products in the reaction of azides with alkynes (CuAAC) or methylene ketones</i>
	<b>S-3</b>
16:20-16:35	<b><u>Ms. Galyna Grygoriv</u></b> National University of Pharmacy <i>1,2-Benzoxathiin-4(3H)-one 2,2-dioxide as new enolnucleophile in construction of 2-amino-4H-pyran core</i>
16:35-16:50	<b>Coffee-break</b>
	<b>O-15</b>
16:50-17:10	<b><u>Dr. Irina Konovalova</u></b> SSI "Institute for Single Crystals" NAS of Ukraine <i>Using of precision X-ray diffraction studies for the analysis of reactivity and weak intermolecular interactions in 3,4-diamino-1,2,4-triazole and its 5- methyl derivative</i>
	<b>O-16</b>
17:10-17:30	<b><u>Dr. Lidiya Petrushova</u></b> National University of Pharmacy <i>The study of bromination mechanism and analgesic activity of methyl 1-allyl-4-hydroxy- 2,2-dioxo-1H-2λ6,1- benzothiazine-3-carboxylate</i>
	<b>S-4</b>
17:30-17:45	<b><u>Ms. Mariia Vodolazhenko</u></b> SSI "Institute for Single Crystals" NAS of Ukraine <i>Directions of one-pot interaction between cyclic and acyclic α-carbonyl CH- acids, DMFDMA and active methylene nitriles in aqueous medium</i>
18:00-19:00	<b>Free time, Visit to the Exhibition of SSI "Institute for Single Crystals"</b> <b>NASU</b> <i>The 4<sup>th</sup> floor, room 431</i>
19:00-22:00	<b>Banquet</b> <i>Banquet Hall, the 2<sup>nd</sup> floor</i>

Thursday, November 15  
**National University of Pharmacy**  
*Valentynivska str. 4*

10:00-10:20	<p style="text-align: center;"><b>Welcoming notes</b></p> <p style="text-align: center;"><b>Rector of the National University of Pharmacy, Doctor of Pharmaceutical Sciences, Prof. Kotvitska Alla Anatoliivna</b></p> <p style="text-align: center;"><b>Academician of the National Academy of Sciences of Ukraine, Honorary Rector of National University of Pharmacy, Advisor to the Rector, Doctor of Pharmaceutical Sciences, Doctor of Chemical Sciences, Prof. V. Chernykh</b></p>
	<b>Chairman Prof. Andrea Basso</b>
10:20-10:50	<p style="text-align: center;"><b>INV-8</b></p> <p style="text-align: center;"><b><u>Prof. Wim Dehaen</u></b> KU Leuven</p> <p style="text-align: center;"><i>New efficient methods for the synthesis of 1,2,3-triazoles</i></p>
10:50-11:10	<p style="text-align: center;"><b>O-18</b></p> <p style="text-align: center;"><b><u>Dr. Victor Shtamburg</u></b> Ukrainian State University of Chemical Technology</p> <p style="text-align: center;"><i>Arylglyoxals as key precursors for the synthesis of aryl(indol-3-yl)benzoins, aryl(fur-2-yl)benzoins, 5-arylthiohydantoins, N-hydroxyhydantoins and N-alkoxyhydantoins</i></p>
11:10-11:30	<p style="text-align: center;"><b>O-19</b></p> <p style="text-align: center;"><b><u>Dr. Hanna Yeromina</u></b> National University of Pharmacy</p> <p style="text-align: center;"><i>Design of new biologically active substances based on N-(2-hydroxyethyl)-N'-phenylthiourea</i></p>
11:30-11:45	<b>Coffee-break</b>
	<b>Chairman Prof. Roman Lesyk</b>
11:45-12:15	<p style="text-align: center;"><b>INV-9</b></p> <p style="text-align: center;"><b><u>Prof. Thierry Ollevier</u></b> Université Laval</p> <p style="text-align: center;"><i>New developments using chiral bipyridine diol metal complexes for asymmetric catalysis</i></p>
12:15-12:35	<p style="text-align: center;"><b>O-20</b></p> <p style="text-align: center;"><b><u>Dr. Nikolay Gorobets</u></b> SSI "Institute for Single Crystals" NAS of Ukraine</p> <p style="text-align: center;"><i>Rapid formation of chemical complexity via a modified Biginelli reaction using 3-amino-1,2,4-triazoles as the urea component</i></p>
12:35-12:55	<p style="text-align: center;"><b>O-21</b></p> <p style="text-align: center;"><b><u>Dr. Kirill Petko</u></b> Institute of Organic Chemistry of NAS of Ukraine</p> <p style="text-align: center;"><i>The simplest azoles N-difluoromethylation: features and surprises</i></p>
12:55-13:10	<b>Coffee-break</b>

<b><u>Thursday, November 15</u></b> <b>National University of Pharmacy</b> <i>Valentynivska str. 4</i>	
	<b>Chairman Prof. Radek Cibulka</b>
13:10-13:30	<b>O-22</b>
	<b><u>Prof. Roman Lesyk</u></b> Danylo Halytsky Lviv National Medical University <i>4-Thiazolidinones: medicinal chemistry aspects</i>
13:30-13:50	<b>O-23</b>
	<b><u>Dr. Tetiana Shvydenko</u></b> Institute of Organic Chemistry, NAS of Ukraine <i>Synthesis and biological activity of ellipticine derivatives</i>
13:50-14:10	<b>O-24</b>
	<b><u>Dr. Sergiy Vlasov</u></b> National University of Pharmacy <i>Development of the novel NSAIDs with the core of 5-methylthieno[2,3-d]pyrimidine-6-carboxylic acid</i>
14:10-14:40	<b>Closing Ceremony</b>
14:40-16:40	<b>Lunch</b>
17:00-20:00	<b><u>Sightseeing interactive tour of Kharkiv</u></b>

08:30-18:00	<b>Friday, November 16</b> <b>Interactive trip to Ukrainian Radio Telescope UTR-2</b>
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