

National Academy of Sciences of Ukraine
A.V. Bogatsky Physico-Chemical Institute of NAS of Ukraine
Southern Scientific Center of NAS and MES of Ukraine
InterChem SLC

XXth Scientific Youth Conference
“PROBLEMS AND ACHIEVEMENTS
OF MODERN CHEMISTRY”
dedicated to the 100th anniversary
of the National Academy of Sciences of Ukraine

CONFERENCE PROGRAM

September 27th– September 28th 2018
Odessa

Thursday, September 27th

- 08:30-10:00** Registration (*Lobby of the Institute*) and putting posters on the boards (*Small conference hall at the 1st floor of the administration block*)
- 10:00-10:30** Opening ceremony (*Large conference hall, 3rd floor of the administration block*)
- 10:30-12:00** Section of Inorganic Chemistry, Analytical Chemistry and Ecology – Part I (*Large conference hall*)
- 12:00-12:15** Coffee-break (*Small conference hall*)
- 12:15-13:45** Section of Inorganic Chemistry, Analytical Chemistry and Ecology – Part II (*Large conference hall*)
- 13:45-14:15** Coffee/Pizza Break (*Small conference hall*)
- 14:15-18:00** City-tour
- 18:00-21:00** Poster session with beer and wine (*Small conference hall*)

Friday, September 28th

- 10:00-11:30** Section of Organic Chemistry, Bioorganic Chemistry and Biochemistry – Part I (*Large conference hall*)
- 11:30-11:45** Coffee-break (*3rd floor of the administration block*)
- 11:45-13:15** Section of Organic Chemistry, Bioorganic Chemistry and Biochemistry – Part II (*Large conference hall*)
- 13:15-13:30** Coffee-break (*3rd floor of the administration block*)
- 13:30-15:00** Section of Organic Chemistry, Bioorganic Chemistry and Biochemistry – Part III (*Large conference hall*)
- 15:00-16:00** Coffee/Pizza Break (*3rd floor of the administration block*)
- 16:00-16:30** Awards and closing ceremonies (*Large conference hall*)

Regulations for oral presentations:

Presentation – 10 min. Q&A – 5 min.

Do not exceed the time limit for your presentation otherwise chairman can interrupt your speech before you will conclude it (it reflects on your score, of course).

Thursday, September 27th

10:00-10:30

Opening ceremony

**Section of Inorganic Chemistry,
Analytical Chemistry and Ecology – Part I
Chairman: Antonovich V.P., PhD, professor**

10.30-10.45

INFLUENCE OF THE AGGREGATE STATE OF LANTHANIDE β -DIKETONATES ON THEIR LUMINESCENT PROPERTIES
Doga P.G.
A.V. Bogatsky Physico-Chemical Institute of NASU (Odessa)

10.45-11.00

SYNTHESIS OF NEW ETHINYL-CONTAINING CLATHROCHELATES OF IRON (II)
Selin R.O., Vakarov S.V.
V.I. Vernadsky Institute of general and inorganic chemistry NASU (Kyiv)

11.00-11.15

SYNTHESIS OF HYDRAZINE AND ITS DERIVATIVES FROM RECYCLED MATERIALS
Demchuk I.M.
Public Joint-Stock Company "AZOT" (Cherkasy)

11.15-11.30

FROM BENZENE AROMATICITY TO GRAPHENE-ZINC PHTHALOCYANINE ADDUCT
Łukasz Gajda
Faculty of Chemistry, University of Opole (Opole)

11.30-11.45

MOLECULARLY IMPRINTED POLYMERS MODIFIED BY ION LIQUID IN HIGH AND SOLID PHASE EXTRACTION
Zosimchuk O.R., Levchik V.M., Kobylinskaya N.G.
T.G. Shevchenko National University (Kyiv)

11.45-12.00

INVESTIGATION OF MOLECULAR COMPOSITION OF BIODEGRADATED OIL BY METHOD GC \times GC-MS
Leushina E.
Skolkovo Institute of Science and Technology (Moscow)

12.00-12.15

Coffee Break

**Section of Inorganic Chemistry,
Analytical Chemistry and Ecology – Part II
Chairman: Dotsenko V.P., PhD, professor**

12.15-12.30	<p>INFLUENCE OF CATIONS OF ALKALI METALS ON FORMATION OF APATITIC TYPE CARBONATES-CONTAINING CALCIUM PHOSPHATES</p> <p><u>Livitskaya O.V.</u>, Strutinskaya N.U. <i>Kyiv National Taras Shevchenko University (Kyiv)</i></p>
12.30-12.45	<p>PHOTOCATALYTIC ACTIVITY OF TiO₂/C/S NANOCOMPOSITES IN DESTRUCTION OF SAFRANINE T UNDER UV AND VISIBLE IRRADIATION</p> <p><u>Bondarenko M.V.</u>, Khalyavka T.A., Scherban N.D., Petrik I.S. <i>Institute for Sorption and Problems of Endoecology NAS of Ukraine (Kyiv)</i></p>
12.45-13.00	<p>TRANSCARPATHIAN CLINOPTILOLITE AS AN EFFECTIVE SORBENT FOR THE REMOVAL OF TRACE AMOUNTS OF Nd(III) AND Lu(III)</p> <p>Stechinskaya E.T. <i>Ivan Franko National University of Lviv(Lviv)</i></p>
13.00-13.15	<p>DEVELOPMENT OF BIOACTIVE GLASS-CRYSTAL COATINGS FOR TITAN BY THE METHOD OF ELECTROPHORETIC PRECIPITATION</p> <p><u>Fesenko O.I.</u>, Voronov G.K., Odintsova O.P. <i>NTU "Kharkiv Polytechnic Institute" (Kharkiv)</i></p>
13.15-13.30	<p>MODIFICATION OF THE SURFACE OF PROTECTED GLASS-CRYSTAL MATERIALS BY ION-EXCHANGE STRENGTHENING</p> <p><u>Ryabinin S.O.</u>, Savvova O.V., Voronov G.K. <i>NTU "Kharkiv Polytechnic Institute" (Kharkiv)</i></p>
13.30-13.45	<p>METHODS OF PROTECTION OF THE TRANSPARENT SITALS AGAINST MICROBIOLOGICAL CORROSION</p> <p><u>Topchiy V.L.</u>, Babich O.V., Savvova O.V. <i>NTU "Kharkiv Polytechnic Institute" (Kharkiv)</i></p>
13.45-14.15	Coffee/Pizza Break
14.15-18.00	City-tour
18.00-21.00	Poster session with beer and wine

Friday, September 28th

**Section of Organic Chemistry,
Bioorganic Chemistry and Biochemistry – Part I
Chairman: Kamalov G.L., PhD, professor, academician of NASU**

10.00-10.15	SYNTHESIS AND PROPERTIES OF 2-PIPERAZIN-1-YL-QUINAZOLINONES <u>Kornilov A. Yu.</u> , Khalimova E.I. <i>A.V. Bogatsky Physico-Chemical Institute of NASU (Odessa)</i>
10.15-10.30	SYNTHESIS OF 2-AMINO-4H-PIRANES ON THE BASE OF 1,2-BENZOXATIN-4-(3H)-ONE 2,2-DIOXIDE AS A NEW ENOLNUCLEOPHYL <u>Grygoriv G.V.</u> , Lega D.O. <i>National Pharmaceutical University (Kharkiv)</i>
10.30-10.45	AZOL- AND AZINANELETED PYRAZOLO-[1,5-a] PIRAZINES <u>Grinishyn Ye.V.</u> , Tszorik N.M., Musiychuk G.R. <i>National University of “Kyiv-Mohyla Academy” (Kyiv)</i>
10.45-11.00	CATALYTIC PROPERTIES OF ACID-MODIFIED ALUMINOSILICATES FROM DOMESTIC DEPOSITS IN GLYCEROL REACTION WITH BENZALDEHYDE Davtyan A.S. <i>A.V. Bogatsky Physico-Chemical Institute of NASU (Odessa)</i>
11.00-11.15	SYNTHESIS OF NEW SPIROHETEROCYCLIC PYRIMIDINE-TRIONES BY RING-CLOSING METATHESIS REACTIONS Kobizhcha N.I. <i>V.P. Kukhar Institute of Bioorganic Chemistry and Petrochemistry of NASU (Kyiv)</i>
11.15-11.30	DERIVATIVES OF PYRROLE, INDOLE AND ANTHRACENE IN TANDEMIC CYCLIZATIONS <u>Luzechko V.B.</u> , Laba E.-O.V., Lytvyn R.Z., Kinzhibalo V.V., Gorak Yu.I., Obushak M.D. <i>Ivan Franko National University of Lviv (Lviv)</i>
11.30-11.45	Coffee Break

**Section of Organic Chemistry,
Bioorganic Chemistry and Biochemistry – Part II
Chairman: Kuzmin V.Ye., PhD, professor**

11.45-12.00	<p>SYNTHESIS OF NEW DERIVATIVES OF PIRIMIDINE ON THE BASE OF α-AMINOAMIDINES</p> <p><u>Onipko O.V.</u>, Demidov O.O., Manvelyan A.A., Pitsyk O.V. <i>V.N. Karazin Kharkiv National University</i> <i>DNU NTK "Institute of Single Crystals of NASU" (Kharkiv)</i></p>
12.00-12.15	<p>REARRANGEMENT OF C₂-BISHOMOCUBYL CARBINOLS</p> <p><u>Nikitina E.</u>, Gaidai O., Zhyhadlo E., Rozhenko O. Levadovskiy I. <i>NTU "Igor Sikorsky Kyiv Polytechnic Institute" (Kyiv)</i></p>
12.15-12.30	<p>ARYL DERIVATIVES OF OXYGEN-CONTAINING HETEROCYCLIC COMPOUNDS: SYNTHESIS AND PROPERTIES</p> <p><u>Pitkovich H.E.</u>, Litvin R.Z. <i>I. Franko Lviv National University (Lviv)</i></p>
12.30-12.45	<p>QSAR MODELS OF SOLUBILITY OF DRUG SUBSTANCES AND THEIR STRUCTURAL INTERPETATION</p> <p>Kulinsky M.A. <i>A.V. Bogatsky Physico-Chemical Institute of NASU (Odessa)</i></p>
12.45-13.00	<p>XANTHOTHUMOL AND ITS CRYSTALLINE SOLVATES</p> <p>Savchenko Oleksandra <i>Maria Curie-Sklodowska University, EcoTech Complex (Lublin)</i></p>
13.00-13.15	<p>1,3-DIPOLAR CYCLOADDITION IN THE SYNTHESIS OF 3,3'-SPIRO-OXY-INDOL ALKALOIDS</p> <p>Pavlovskaya T.L. <i>STC "Institute of Single Crystals" (Kharkiv)</i></p>
13.15-13.30	Coffee Break

**Section of Organic Chemistry,
Bioorganic Chemistry and Biochemistry – Part III
Chairman: Krysko A.A., PhD**

13.30-13.45	<p>REACTIONS OF 1,3-DIPOLES WITH MALONODINITRILE DIMER IN SYNTHESIS OF NEW AZOLOAZINE DERIVATIVES</p> <p><u>Tupychak M.A.</u>, Shyka O.Ya., Pokhodil N.T., Obushak M.D. <i>Ivan Franko National University of Lviv (Lviv)</i></p>
13.45-14.00	<p>EFFECTIVE SYNTHESIS OF PIRAZOLO[4,3-B]PYRIDINES</p> <p><u>Yakovenko G.G.</u>, Lukyanov O.O. <i>National University of "Kyiv-Mohyla Academy" Institute of Organic Chemistry of NASU (Kyiv)</i></p>
14.00-14.15	<p>SCREENING OF THYROSINASE INHIBITORS AMONG BENZYLIDENANILINE DERIVATIVES</p> <p><u>Shesterenko Yu.A.</u>, Lichynaki O.V., Kharchenko O.I., Kulinsky M.O. <i>A.V. Bogatsky Physico-Chemical Institute of NASU (Odessa)</i></p>
14.15-14.30	<p>INFLUENCE OF THE MEDIATOR STRUCTURE ON THE EFFICIENCY OF INDICO-CARMIN OXIDATION WITH LACCASE-MEDIATOR SYSTEM</p> <p><u>Gordeeva I.A.</u>, Zosenko O.A. <i>V. Stus Donetsk National University (Vinnytsia)</i></p>
14.30-14.45	<p>SMALL RING STABILIZATION BY SPIRO CAGE HYDROCARBONS: QUANTUM-CHEMICAL STUDY</p> <p>Polishchuk V.M. <i>NTU "Igor Sikorsky Kyiv Polytechnic Institute" (Kyiv)</i></p>
14.45-15.00	<p>SPIRO-OXETANES BASED ON THE CAGE HYDROCARBONES: THE POWERFULL STARTING MATERIALS FOR DRUG DISCOVERY</p> <p><u>Strohetska I.M.</u>, Pashenko A.E. <i>NTU "Igor Sikorsky Kyiv Polytechnic Institute" (Kyiv)</i></p>
15.00-15.30	Coffee/Pizza Break
15.30-16.00	Awards and closing ceremonies