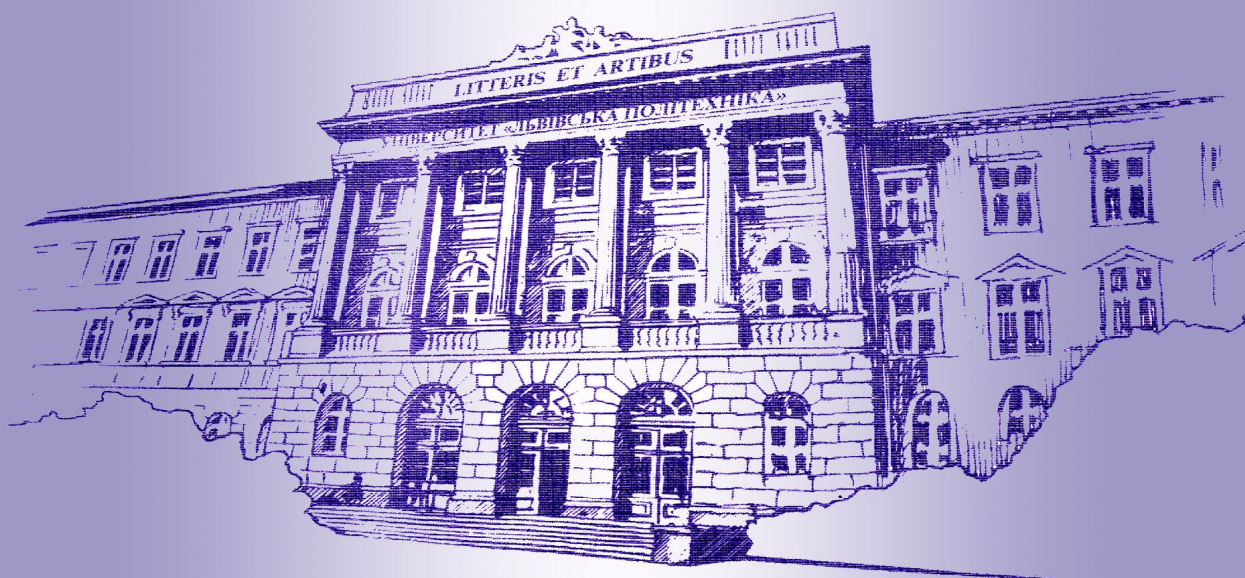


PROGRAM
of 3rd International Summer School
”Supramolecular Systems
in Chemistry and Biology”



Lviv
6-10 September 2010

European Research Association “SupraChem”
ARCUS “Alsace – Russia/Ukraine” program
National Academy of Sciences of Ukraine
Russian Academy of Sciences
French National Centre of Scientific Research
Fundamental Researches State Fund of Ukraine
Ministry of Education and Science of Ukraine
National University “Lviv Polytechnic”

PROGRAM

of 3rd International Summer School “Supramolecular Systems in Chemistry and Biology”



September 6-10, 2010, Lviv (Ukraine)

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Iryna Buchkevych	Researcher at the National University "Lviv Polytechnic"
Mykola Platonov	Assistant Professor at the National University "Lviv Polytechnic"

6 September 2010

10h00 -14h00

Registration

14h00 - 14h15

Opening

Yuriy Bobalo (Rector of the National University “Lviv Polytechnic”)

Andriy Sadovyy (Mayor of Lviv)

Alexandre Varnek (SupraChem and ARCUS coordinator)

Vitaly Kalchenko (SupraChem coordinator for Ukraine)

Volodymyr Novikov (Vice-chairman of Organizing committee)

Chairpersons

Vitaly Kalchenko and Alexandre Varnek

14h15 - 15h15

Jean-Pierre Sauvage (Strasbourg, France)

COPPER-COMPLEXED INTERLOCKING COMPOUNDS AND MOLECULAR MACHINES

15h15 - 16h15

Aslan Tsivadze (Moscow, Russia)

PERSPECTIVE NANOMATERIALES ON THE BASIS OF SUPRAMOLECULAR METAL COMPLEXES WITH MACROCYCLIC LIGANDS

16h15 - 16h35

Coffee Break

16h35 - 19h00

Poster session

19h00 - 21h00

Wellcome party

7 September 2010

Morning session

Chairpersons

Burkhard König and Igor Antipin

09h00 - 10h00

Alexander Konovalov (Kazan, Russia)

SUPRAMOLECULAR SYSTEMS ARE THE BRIDGE FROM THE INANIMATE TO LIVING MATTER

10h00 - 11h00

Eric Westhof (Strasbourg, France)

THE ELEMENTARY RNA MODULES OF RNA ARCHITECTURES

11h00 - 11h20 *Coffee Break*

11h20 - 11h50 *Sergey Andronati (Odessa, Ukraine)*
**INTERNAL ACTIVITY OF BIOLOGICALLY ACTIVE
COMPOUNDS LIGAND-RECEPTOR RECOGNITION**

11h50 - 12h20 *Olga Fedorova (Moscow, Russia)*
**SUPRAMOLECULAR CHEMISTRY OF ORGANIC-
INORGANIC HYBRID SYSTEMS**

12h20 - 14h00 *Lunch*

Afternoon session

Chairpersons *Carsten Schmuck and Aslan Tsivadze*

14h00 - 15h00 *Mir Wais Hosseini (Strasbourg, France)*
**MOLECULAR TECTONICS: STRATEGIES FOR THE
CONSTRUCTION OF METALLOORGANIC FRAMEWORKS**

15h00 - 15h30 *Vitaly Kalchenko (Kiev, Ukraine)*
**SUPRAMOLECULAR CHEMISTRY OF CALIXARENES
FUNDAMENTAL AND PRACTICAL ASPECTS**

15h30 - 16h00 *Andrey Vovk (Kiev, Ukraine)*
**ENZYMES AS POSSIBLE TARGETS FOR BIOACTIVE
MACROCYCLES**

16h00 - 16h20 *Coffee Break*

16h20 - 16h50 *Mikhail Tukalo (Kiev, Ukraine)*
**SUPRAMOLECULAR INTERACTIONS IN TRANSLATION OF
THE GENETIC CODE: RECOGNITION OF PROKARYOTIC
TRNAS WITH A LONG VARIABLE ARM BY AMINOACYL-
TRNA SYNTHETASES**

16h50 - 17h50 *Janusz Lipkowski (Warsaw, Poland)*
**CRYSTALLOGRAPHY OF SUPRAMOLECULAR
COMPOUNDS**

8 September 2010

Chairpersons *Janusz Lipkowski and Oleg Shishkin*

09h00 - 9h40 *Hans-Jorg Schneider (Saarbrücken, Germany)*
BINDING MECHANISMS IN SUPRA-MOLECULAR COMPLEXES

9h40 - 10h20 *Yves Mely (Strasbourg, France)*
QUANTITATIVE AND HIGH RESOLUTION FLUORESCENCE MICROSCOPY: APPLICATIONS AND DEVELOPMENTS

10h20 - 10h40 *Coffee Break*

Young Scientist Presentations

Chairpersons *Piotr Bregestovski and Luisa de Cola*

10h40 - 10h55 *Pinar Batat (Bordeaux, France)*
ULTRAFAST PROCESSES IN FLUORESCENT Ca^{2+} RECEPTORS

10h55 - 11h10 *Olga Bochkova (Kazan, Russia)*
NON-COVALENT MODIFICATION OF LUMINESCENT TB-TCAS-DOPED SILICA NANOPARTICLES SURFACE BY SURFACTANTS

11h10 - 11h25 *Kateryna Bryleva (Kharkiv, Ukraine)*
Sr AND Cs SELECTIVE CALIXARENE-BASED SORBENTS: ANALYTICAL APPLICATION IN ENVIRONMENTAL CHEMISTRY

11h25 - 11h40 *Olesya Krumkacheva (Novosibirsk, Russia)*
SUPRAMOLECULAR PHOTOCHEMISTRY IN β -CYCLODEXTRIN HOSTS: A TREPR, NMR, AND CIDNP INVESTIGATION

11h40 - 11h55 *Kirill Birin (Moscow, Russia)*
SYNTHESIS AND NMR INVESTIGATION OF NEW SERIES OF LANTHANIDE TRIPLE-DECKER (PORPHYRINATO PHTHALO-CYANINATES)

11h55 - 12h10 *Anna Pavlishchuk (Kyiv, Ukraine)*
**SUPRAMOLECULAR ASSEMBLIES AND COORDINATION
POLYMERS BASED ON HOMO- AND HETEROMETALLIC
METALLACROWN BUILDING BLOCKS**

12h10 - 12h25 *Tim Reimers (Kiel, Germany)*
CHIRAL CONCAVE N-HETERO-CYCLIC CARBENES

12h25 - 12h40 *Roman Rodik (Kyiv, Ukraine)*
**CATIONIC AMPHIPHILIC CALIXARENES: NANOSCOPIC
MICELLE FORMATION AND GENE DELIVERY**

12h40 - 12h55 *Viktoriia Postupalenko (Kiyv, Ukraine – Strasbourg, France)*
**RATIOMETRIC FLUORESCENT PROBES FOR SENSING
INTERACTIONS OF PEPTIDES WITH THEIR MOLECULAR
TARGETS**

12h55 - 13h10 *Tom Schirtz (Strasbourg, France)*
**STUDYING THE MECHANISMS OF RNA TRANSLOCATION
INTO MITOCHONDRIA.**

13h10- 15h00 *Lunch*

15h00 - 18h00 *Excursion*

9 September 2010

Morning session

Chairpersons *Olga Fedorova and Alain Krol*

09h00 - 10h00 *Piotr Bregestovski (Marseille, France)*
**CANNABINOIDS AND ENDOCANNA-BINOIDS: TWO SIDES
OF ONE COIN**

10h00 - 11h00 *Carsten Schmuck (Essen, Germany)*
**SUPRAMOLECULAR CHEMISTRY: FROM BIOORGANIC
CHEMISTRY TO SOFT MATERIALS**

11h00 - 11h20 *Coffee Break*

11h20 - 11h50 *Alexandre Varnek (Strasbourg, France)*
CHEMOINFORMATICS APPROACHES TO VIRTUAL SCREENING

11h50 - 12h20 *Burkhard Köenig (Regensburg, Germany)*
MOLECULAR RECOGNITION AT THE LIPID-WATER INTERFACE

12h20 - 14h00 *Lunch*

Afternoon session

Chairpersons *Mykola Kartel and Emmanuel Cadot*

14h00 - 15h00 *Luisa de Cola (Münster, Germany)*
MOLECULAR CONTAINERS. PROPERTIES AND APPLICATIONS

15h00 - 15h30 *Oleg Shishkin (Kharkiv, Ukraine)*
INTERMOLECULAR INTERACTIONS WITH PARTICIPATION OF π -SYSTEM IN SUPRAMOLECULAR COMPLEXES AND MOLECULAR CRYSTALS

15h30 - 17h30 **Young scientists competition**

19h30 *Conference dinner*

10 September 2010

Chairpersons *Alexander Konovalov and Mir Wais Hosseini*

09h00 - 10h00 *Jean-Marie Lehn (Strasbourg, France)*
PERSPECTIVES IN CHEMISTRY: FROM SUPRAMOLECULAR CHEMISTRY TOWARDS ADAPTIVE CHEMISTRY

10h00 - 10h30 *Igor Antipin (Kazan, Russia)*
SUPRAMOLECULAR CHEMISTRY OF CALIXARENES

10h30 - 11h00 *Emmanuel Cadot (Versailles, France)*
**FROM THE FIRST STRUCTURAL LINK BETWEEN
NANOSIZED MOLYBDENUM OXIDE-BASED IONS AND
DERIVED KEGGIN STRUCTURE TO THE GIANT
SULFURATED-KEPLERATE ANION**

11h00 - 11h20 *Coffee Break*

11h20 - 11h50 *Alain Krol (Strasbourg, France)*
**MASSIVE STRUCTURE DIFFERENCES BETWEEN
CHIMPANZEE AND HUMANS IN A BRAIN-SPECIFIC RNA. A
LINK WITH HUMAN BRAIN EVOLUTION?**

11h50 - 12h20 *Mykola Kartel (Kyiv, Ukraine)*
SUPRAMOLECULARITY OF CARBON NANOTUBES

12h20 - 12h30 *Closure*

Poster presentations

Agafonova M.N., Zhukov A.Yu., Galukhin A. V., Stoikov I.I., Antipin I.S., Konovalov A.I.

THE DESIGN AND SYNTHESIS OF RECEPTOR STRUCTURES BASED ON THIACALIX[4]ARENES CAPABLE TO RECOGNITION A NUMBER OF α -HYDROXY- AND DICARBOXYLIC ACIDS

Alekseeva O.M., Kim Yu.A., Yagolnik E. A., Burlakova E.B., Goloshapov A.N., Fattakhov S.G.

THE COMPARISON OF THE MELAFEN-AQUEOUS COMPLEXES AND ITS DERIVATIVE – PYRAFEN, INFLUENCES TO THE ARTIFICIAL LIPID MEMBRANES

Alekseeva O.V., Sitdikov R.R., Antipin I.S., Konovalov A.I., Stoikov I.I.

DESIGN OF *P-TERT*-BUTYL THIACALIX[4]ARENE DERIVATIVES FUNCTIONALIZED WITH MULTIPLE HYDROXYL- AND AMIDE PROTONODONOR FRAGMENTS

Antina E. V., Dudina N. A., Guseva G. B., Vuygin A. I.

THE INFLUENCE OF STRUCTURE FACTORS ON THE COMPLIMENTARITY OF *d*- AND *f*-METALS WITH 3,3'-BIS(DIPYRROMETHENE)S

Babych I. V., Riabov S. V.

PREPARATION OF INCLUSION COMPLEXES OF CYCLODEXTRINS AND 2-AMINOETHYL DIPHENILBORINATE AND THEIR PHYSICO CHEMICAL PROPERTIES

Bakirov A., Scherbina M., Chvalun S., Zhu X., Möller M., Beginn U.

SELF-ASSEMBLING SYSTEMS WITH VARIOUS FUNCTIONAL PROPERTIES FORMED BY WEDGE SHAPED SALTS OF BENZENE SULFONIC ACID

Barna A.V., Lampeka Ya.D.

SUPRAMOLECULAR STRUCTURES BUILT ON AMINE NICKEL AND COPPER CATIONS AND KEGGIN-TYPE POLYOXOMETALATE ANIONS AND THEIR HETEROPHASE INTERACTION WITH POLAR GUESTS

Batat P., Cantuel M., Palma A., O'Shea D. F., McClenaghan N., Jonusauskas G.

PHOTOINDUCED PROCESSES IN BODIPYS AND AZA-BODIPYS : BUILDING BLOCKS FOR SUPRAMOLECULAR COMPOUNDS AND PHOTODYNAMIC THERAPY AGENTS

Berdnikova D. V., Fedorova O. A., Fedorov Yu. V.

**CROWN-CONTAINING
SIGNALING UNITS
FOR SENSOR DEVICES**

BIS(STYRYL) DYES: NOVEL

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**QTAIM ANALYSIS OF SYSTEM INTERATOMIC INTERACTIONS IN
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**NEOGLYCOCONJUGATES FOR MODIFICATION OF TARGETED
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12. *Cherenok S., Yuschenko A., Kalchenko O., Ruban O., Kalchenko V.*
**CALIX[4]ARENE A-HYDROXYPHOSPHONOUS ACIDS. SYNTHESIS,
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13. *Dutkiewicz G., Misterkiewicz B., Borowiak T*
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**STABILIZATION OF CIS-ISOMERS OF CROWN-CONTAINING STYRYL
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15. *Chitranshi N., Gupta S., Trpathi P. K.*
**COMPUTATIONAL APPROACH USING DOCKING BASED ENERGY
SCORES TODEVELOP LIGAND BASED MODEL FOR HUNTINGTIN
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**COMPLEXES OF Pd(II) WITH MESO-SUBSTITUTED OCTAALKYL-
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17. *Czapik A., Gdaniec M., Połoński T.*
**CO-CRYSTALS OF DIAZAHETEROCYCLIC BASES WITH
PHENYLENEDIAMINES**
18. *Deniz N. G., Ibis C.*
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19. *Dibrivny V.N., Melnyk H.V., Raevskii Yu.A., Pistun Z.Ye.*
**THE ENTHALPIES VAPORATION ADDITIVE CHARACTER OF CARBORANE
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20. *Dibrivnyi V. N., Van Chin Syan Yu. Ya., Raevskii Yu.A., Melnyk H. V.*
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ADSORPTION OF BIOLIGANDS ON SPARE OF POLYMERIC MICROSPHERES
29. *Ferlay S.*
VARIATION AROUND CHARGE-ASSISTED H-BONDED MOLECULAR NETWORKS
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31. *Gatiatulina A. K., Ziganshin M. A., Gorbachuk V. V.*

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PHOSPHORESCENT PLATINUM COMPLEXES FOR OLED APPLICATIONS
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40. *Iurchenko I., Buryak V.*
NEW PERSPECTIVE METHODS FOR THE DETERMINATION OF NIMESULIDE IN BIOLOGICAL OBJECTS
41. *Ivanova Yu.B, Kulikova O.M., Mamardashvili N.Zh.*
PH-SWITCHING PORPHYRIN RECEPTOR: IODIDE, BROMIDE AND CHLORIDE IONS BINDING

42. *Jonusauskas G.*
ULTRAFAST OPTICAL SPECTROSCOPIES: PRINCIPLES, TECHNIQUES AND APPLICATIONS
43. *Kaczmarek Małgorzata T., Jastrzb R., Kubicki M., Radecka-Paryzek W.*
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48. *Kashapov R.R., Pashirova T.N., Zhiltsova E.P., Kayupov A.R., Kasymova E.M., Burilov A.R., Zakharova L.Ya., Konovalov A.I.*
AGGREGATION BEHAVIOR OF NEW WATER-SOLUBLE CALIX[4] RESORCINOL CONTAINING PHOSPHORYL FRAGMENTS
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51. *Georg S., Billard I., Gaillard C., Klimchuk O.*
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52. *Klimentiev V.I., Polyakov N.E., Taraban M.B., Leshina T.V.*
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WITH OLIGOSACCHARIDES

53. *Kolosova O.Yu., Gulakova E.N., Fedorova O.A., Fedorov Yu.V., Shepel N.E.*
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SYNTHESIS OF THE NOVEL CONDENSED DERIVATIVES OF QUINAZOLINE
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