



ADVANCES IN SYNTHESIS AND COMPLEXING

**The first German-Russian interdisciplinary Student Workshop:
“Nanoscale interdisciplinary research: physics, chemistry, biology,
mathematics”**

as a part of

**The Fourth International Scientific Conference
“Advances in Synthesis and Complexing”**

PROGRAM

Moscow, RUDN University

25-27 April 2017



ADVANCES IN SYNTHESIS AND COMPLEXING

24 April, MONDAY.

Arrival of participants.

15.00 – 19-00 Registration

(Ordgonikidze st. 3, Science Faculty, RUDN University, room 102).

Attention! The entrance in RUDN University facilities is possible only with a passport!



ADVANCES IN SYNTHESIS AND COMPLEXING

25 April, TUESDAY

9.00 - 10.00 Registration (Ordgonikidze st. 3, room 102).

10.00 - 13.00 Plenary lectures

13.00 - 14.00 Lunch

15.00 - 18.00 The first German-Russian interdisciplinary Student Workshop: “Nanoscale interdisciplinary research: physics, chemistry, biology, mathematics” (Miklukho-Maklaya st. 6, Main Building)

19.00 – 21.00 Get-together party

Plenary Lectures

(Ordgonikidze st. 3, club)

10.00-10.10	Leonid G. Voskressensky (Dean of the Science Faculty)	Greetings
10.15-10.55	Valentine P. Ananikov (Zelinsky IOC, Russia)	Dynamic phenomena in catalytic transformations: influence on efficiency and selectivity
11.00-11.40	Vladimir N. Gevorgyan (University of Illinois at Chicago, USA)	Development of Novel C–H Functionalization Methodologies
11.45-12.15	Frédéric Lamaty (Institut des Biomolécules Max Mousseron, France)	Mechanochemistry: a powerful sustainable approach in organic and organometallic synthesis
12.15-13.00	<i>Departure to Main Building</i>	
13.00-14.00	<i>Lunch (Main Building, Miklukho-Maklaya, 6)</i>	
14.00-14.15	Vladimir M. Filippov (Rector of RUDN University)	Opening of The First German-Russian interdisciplinary Student Workshop: “Nanoscale interdisciplinary research: physics, chemistry, biology, mathematics”
14.15-14.45	Lutz F. Tietze (Goettingen University)	Novel Drugs and Targets for a Selective Treatment of Cancer
14.50-15.20	Jürgen Lademann (Charité Berlin)	Topical drug delivery with nanoparticles: Science fiction or reality
15.25-15.55	Juan Rodriguez-Vita (German Cancer Research Center)	Endothelial Notch1 activity facilitates metastasis
16.00-16.10	Mary D. Matveeva	<i>AlphaNanoTech Presentation</i>
16.10-16.40	<i>Coffee-Break</i>	



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16.40- 17.10	Joerg Rademann (Free University Berlin)	Fragment-based high throughput screening in fragment-based drug discovery
17.15- 17.40	Andreas Brunschweiler (Technical University Dortmund)	Finding Drugs with DNA-encoded Compound Libraries
17.45- 18.00	Guillermo Valdomir (Goettingen University)	Enantioselective Total Synthesis of Dicerandrol C
18.00	Departure to Party	



ADVANCES IN SYNTHESIS AND COMPLEXING
26 April, WEDNESDAY

9.00 - 13.30 Workshop lectures (Miklukho-Maklaya st. 6, Main Building).

13.30 - 14.30 Lunch

14.30 - 18.00 Workshop Lectures (Miklukho-Maklaya st. 6, Main Building)

Workshop Lectures

(Miklukho-Maklaya st. 6, Main Building)

9.00-9.30	Andrei Antonchick (Technical University Dortmund)	Metal-Free C-H Bond Functionalization
9.35-9.50	Luis Bering (Technical University Dortmund)	Selective transition-metal-free vicinal cis dihydroxylation of saturated hydrocarbons
9.55-10.25	Thomas J.J. Mueller (Dusseldorf University)	Diversity-Oriented Multicomponent Synthesis of Fluorophores
10.30-10.45	Franziska K. Merkt (Dusseldorf University)	Tunable Luminescent Donor Quinoxalines – One-pot syntheses, Photophysics and Electronic Structure
10.45-11.00	Arno Schneeweis (Dusseldorf University)	Anellated Dithienothiazines – Syntheses and Electronic Properties of Electronrich Heterocycles
11.00-11.30	<i>Coffee-Break</i>	
11.35-12.05	Prof. Dr. Ivan Vartaniants (Deutsches Elektronen-Synchrotron, Hamburg)	Making the invisible visible with coherent X-rays
12.10-12.25	Max Rose (Deutsches Elektronen-Synchrotron, Hamburg)	Soft X-Ray Ptychography of Biological Samples with Full Beam Characterization
12.30-12.45	Ivan Zaluzhnyy (Deutsches Elektronen-Synchrotron, Hamburg)	XCCA analysis of bond-orientational order in liquid crystal membranes in the vicinity of the hexatic-smectic phase transition
12.50-13.00	Kseniya Egorova (N.D. Zelinsky IOC)	Employing ionic properties of organic compounds in drug development
13.00-14.00	<i>Lunch</i>	
14.00-14.30	Prof. Dr. Hermann A. Wegner (Justus Liebig University Giessen)	Pushing the frontiers in aromatic chemistry – substituted cycloparaphenylenes
14.35-14.50	Marsel Strauss (Justus Liebig University Giessen)	Azobenzene switches as tools to understand fundamental molecular



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		interactions
14.55-15.25	Prof. Dr. Oliver Reiser (University of Regensburg)	Mag(net)ic Nanocatalysts and Reagents: Applications for Sustainable Organic Synthesis
15.30-15.45	Lisa Stadler (University of Regensburg)	Palladium nanoparticles embedded in magnetic microporous organic polymers: Highly active and recyclable catalysts for hydrogenation reactions
15.45-16.00	Andreas Hartl (University of Regensburg)	Magnetically recoverable ruthenium nanocatalysts based on microporous organic polymers for transfer hydrogenations.
16.00-16.10	Alexey Kashin (N.D. Zelinsky IOC)	Direct observation of the microstructure of reaction mixtures by scanning electron microscopy
16.10-16.45	<i>Coffee-Break</i>	
16.45-17.15	Prof. Dr. Frank Rößner (University of Oldenburg)	Activation of ammonia on Fischer-Tropsch-catalysts
17.20-17.35	Andreas Thome (University of Oldenburg)	Synthesis and characterization of hierarchically structured silicates
17.40-17.55	Madita Einemann (University of Oldenburg)	Zeolites as nano-reactores - Alkylation of phenol derivatives with methanol
18.00-18.30	Allaberen Ashyralyev (Near East University Lefkoşa (Nicosia), Turkey)	An operator approach in investigation of partial differential equations involving the fractional derivative



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27 April, THURSDAY

10.00 - 13.00 Workshop lectures (Russian participants) (Ordgonikidze st. 3, club).

13.00 - 14.00 Closing of the workshop

13.00 - 14.00 Lunch

15.00 - 20.00 Cultural Program

Presentations of Russian participants (Miklukho-Maklaya st. 6, Main Building)

10.00-10.30	Eckart Rühl (Free University Berlin)	Label-free spectromicroscopy as a probe for dermal drug delivery
10.35-11.05	Valentine P. Ananikov (Zelinsky IOC, Russia)	Application of 3D printing in chemical research
11.10-11.40	Vatsadze Sergey Zurabovich (Lomonosov Moscow State University)	Stereoelectronic chameleons: the donor/acceptor dichotomy of functional groups
11.45-12.00	Yulia D. Loginova (Lomonosov Moscow State University)	Stereoelectronic Chameleons: New Examples
12.00-12.30	<i>Cofee Break</i>	
12.30-12.45	Thomas Buchecker (University of Regensburg)	The impact of solvent structuring in organic synthesis
12.50-13.00	Diana Kuznetsova (Ural Federal University)	Preparation of novel nanoscaled delivery system based on proliposomes
13.05-13.15	Ksenia Kozhikhova (Ural Federal University)	Synthesis of nanosized mucoadhesive pectinic hydrogel for local anesthesia
13.20-13.35	Spartak Khutsishvili (A.E.Favorsky Irkutsk Institute of Chemistry)	Multifunctional magnetic iron-containing nanocomposites based on natural polysaccharide arabinogalactan
13.40-13.55	Sören Rösel (Justus Liebig University Giessen)	London Dispersion Enables the Shortest Intermolecular Hydrocarbon H•••H Contact
14.00-14.15	Harald Locke (Justus Liebig University Giessen)	Rectifier properties of hydrocarbons
14.15-14.30	Eckart Rühl (Free University Berlin)	Closing of the workshop
14.30-15.00	<i>Lunch</i>	
15.00-19.00	Cultural Program	



ADVANCES IN SYNTHESIS AND COMPLEXING
28 April, Friday

Departure.