Boreskov Institute of Catalysis SB RAS, Russia
Kazan National Research Technological University, Russia
Russian Foundation for Basic Research, RFBR

SCIENTIFIC PROGRAM

4th International School - Conference on Catalysis for Young Scientists “CATALYST DESIGN. From Molecular to Industrial Level”

September 5-6, 2015
Kazan, Russia
Dear Colleagues!

We are pleased to invite you to participate in the 4th International School-Conference on Catalysis for Young Scientists “CATALYST DESIGN. From Molecular to Industrial level” (ISCC-2015). This is a satellite event of XIIth European Congress on Catalysis (30th August to 4th September 2015, Kazan, Russia). This event continues the tradition established in Novosibirsk (2002), Altay (2005) and Yekaterinburg region (2009). The School-Conference is directed to young researchers, Ph.D. students and undergraduates involved in different fields of catalysis research. Catalysis is a fast developing multidisciplinary area facing the challenges of novel chemical technologies. The School will provide the students with approaches for acquiring a deep know-how and a strong background on the fundamentals of catalysis. The lectures of leading scientists will provide the basics of preparation, characterization and modeling of new catalysts, catalytic systems and catalytic processes. Particular attention will be paid to the mechanisms and the role of catalysis in fine organic synthesis and environmental protection. Participants will have a unique opportunity to discuss their own research with leading experts in various fields.

You are welcome to School-Conference!

Organizing Committee

PROGRAM SCIENTIFIC COMMITTEE

Chairman- Professor Oleg N. Martyanov, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Co-Chairman- Professor German S. Dyakonov, Kazan National Research Technological University, Kazan
Professor Alexander M. Kochnev, Kazan National Research Technological University, Kazan
Professor Sergey Z. Vatsadze, M.V. Lomonosov Moscow State University, Moscow
Professor Andrey A. Pimerzin, Samara State Technical University, Samara
Professor Vladimir A. Reznikov, Novosibirsk State University, Novosibirsk
Dr. Alexey A. Vedyagin, Boreskov Institute of Catalysis SB RAS, Novosibirsk, Novosibirsk
Dr. Andrey V. Matveev, Federal Agency for Scientific Organizations, Novosibirsk

ORGANIZING COMMITTEE

Professor Ilnur A. Abdullin, Kazan National Research Technological University, Kazan
Dr. Tatiana Yu. Kardash, Boreskov Institute of Catalysis SB RAS, Novosibirsk, Novosibirsk
Dr. Dzhalil F. Khabibulin, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Dr. Roman V. Gulyaev, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Dr. Ekaterina A. Kozlova, The Department of Natural Science Novosibirsk State University, Novosibirsk
Dr. Elena A. Melgunova, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Dr. Aleksey A. Shutilov, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Dr. Lidiya S.Kibis, Boreskov Institute of Catalysis SB RAS, Novosibirsk
Dr. Daniil I. Kolokolov, Boreskov Institute of Catalysis SB RAS, Novosibirsk

SCHOOL-CONFERENCE SECRETARY

Dr. Guzel G. Garifzianova, Kazan National Research Technological University, Kazan
Marina A. Klyusa, Boreskov Institute of Catalysis SB RAS, Novosibirsk
SCIENTIFIC PROGRAM

The Organizing committee has received materials from 100 young scientists from 5 countries. The program of the School-Conference consists of 9 plenary lecturers, 19 oral presentations, 14 short oral presentation and about 50 posters.

The major topics of the school will be:

- Catalysis for environmental protection, photocatalysis
- Catalysis in energy production, electrocatalysis
- Catalysis for fine organic synthesis, natural gas and petroleum chemistry
- Kinetics and modeling of catalytic reactions and reactors
- Mechanisms of heterogeneous catalysis, methods of catalyst characterization
- Preparation of catalysts and adsorbents

PLENARY LECTURERS:

1. Dr. Miguel Costas Salgueiro  
   University of Girona, Girona, Spain  
   E-mail: miquel.costas@udg.edu  
   www.udg.edu/qbis

2. Prof. Emrah Özensoy  
   Bilkent University, Ankara, Turkey  
   E-mail: ozensoy@fen.bilkent.edu.tr  
   http://www.fen.bilkent.edu.tr/~ozensoy/

3. Prof. Oksana A. Kholdeeva  
   Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia  
   E-mail: khold@catalysis.ru  

4. Prof. Esfir M. Sulman  
   Tver State Technical University, Tver, Russia  
   E-mail: sulman@online.tver.ru

5. Prof. Elena R. Savinova  
   Université de Strasbourg, France  
   E-mail: elena.savinova@unistra.fr  
6. Prof. Dmitry Yu. Murzin  
Abo Akadimi University, Turku, Finland  
E-mail: Dmitry.Murzin@abo.fi  
http://users.abo.fi/dmurzin

7. Professor Artem N. Bezrukov  
Kazan National Research Technological University  
E-mail: artem.bezrukov@kstu.ru  
http://www.kstu.ru/article.jsp?id_e=52273

8. Prof. Andrey V. Simakov  
Centro de Nanociencias y Nanotecnologia, UNAM, Ensenada, BC  
E-mail: andrey@cnyn.unam.mx  
www.cnyn.unam.mx

9. Prof. Sergey A. Beloshapkin  
Materials & Surface Science Institute, University of Limerick, Limerick, Ireland  
E-mail: sergei.beloshapkin@ul.ie  
http://scieng.ul.ie/staff-profile/sergey-beloshapkin

SCHOOL-CONFERENCE LANGUAGE
The official language of the School-Conference is English.

SCHOOL-CONFERENCE PUBLICATIONS
Abstracts of the plenary lectures and accepted oral and poster presentations will be published in the USB flash drive with an assigned ISBN and available at the registration desk. Each participant or registered person will also receive the final scientific program-brochure.

VENUE
The School-Conference will take place in the Conference Hall of Kazan National Research Technological University, Kazan, Russia (Building B, 72 Karl Marx street, Kazan 420015, Republic of Tatarstan, Russia)
SCIENTIFIC PROGRAM

September 5 (Saturday)
Conference hall

9:00 Opening

PLENARY LECTURES
Chairperson: Oleg N. Martyanov

9.30
PL-1
Professor Miguel Costas Salgueiro
Cussó O., Canta M., Font D., Prat I. and Costas M.
BIOLOGICALLY INSPIRED CATALYSTS for SELECTIVE C-H and C=C OXIDATION REACTIONS
University of Girona, Girona, Spain

10.00
PL-2
Professor Emrah Özensoy
EXHAUST EMISSION CONTROL CATALYSTS
Bilkent University, Ankara, Turkey

10.30
PL-3
Professor Oksana A. Kholdeeva
LIQUID PHASE SELECTIVE OXIDATION via HETEROGENEOUS CATALYSIS
Boreskov Institute of catalysis SB RAS, Novosibirsk, Russia

11.00
PL-4
Professor Esfir M. Sulman
NANO-CATALYTIC PROCESSES for ENERGY APPLICATIONS
Tver State Technical University, Tver, Russia

11.30 – 11.50 Coffee – break

Chairperson: Renat R. Nazmutdinov

11.50
PL-5
Professor Elena R. Savinova
ELECTROCATALYSIS for ENERGY CONVERSION SYSTEMS: INSIGHTS from NEAR-AMBIENT PRESSURE XPS
Université de Strasbourg, Strasbourg, France

ORAL SECTION

Section VI: Preparation of catalysts and adsorbents

12:20
OP-1
Anton Koskin
Koskin A.P., Larichev Y.V.
DEVELOPMENT of ACID CARBON MATERIALS: PREPARATION and USE as ACID CATALYSTS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
12:35 Elza Sultanova

Sultanova E.D., Salnikov V.V., Mukhitova R.K., Zuev Yu.F., Zakharova L.Ya., Ziganshina A.Y., Konovalov A.A.
SYNTHESIS and CATALYTIC ACTIVITY of the POLYMER-STABILIZED PALLADIUM NANOPARTICLES
Arbuzov Institute of Organic and Physical Chemistry, Kazan Scientific Center, Russian Academy of Sciences

12:50 Ekaterina Asalieva

Asalieva E.Yu., Kulchakovskaya E.V., Sineva L.V., Mordkovich V.Z.
PREPARATION of PELLETIZED COMPOSITE FISCHER–TROPSCH CATALYST with RANEY COBALT as an ACTIVE COMPONENT
Federal state bugetary institution “Technological institute for superhard and novel carbon materials”, Moscow, Russia

13:05 – 15.00 Lunch

September 5 (Saturday)
Conference hall

ORAL SECTION
Chairperson: Sergey A. Beloshapkin

Section V: Mechanisms of heterogeneous catalysis, methods of catalyst characterization

15:00 Daniil Kolokolov

Kolokolov D.I., Arzumanov S.S., Jobic H., Stepanov A.G.
EXPERIMENTAL DETECTION of MOBILTY of HYDROCARBONS in ZEOLITE-BASED CATALYSTS by MEANS of SOLID STATE $^2$H NMR
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

15:15 Roman Gulyaev

DIVALENT DOPED CERIA: A TOOL for DESIGN of HIGH THERMOSTABLE CATALYSTS of LOW-TEMPERATURE CO OXIDATION
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

15:30 Elena Bessudnova

Bessudnova E.V., Shikina N.V., Ismagilov Z.R.
STUDY and CHARACTERIZATION of NANOSCALE RUTILE TiO$_2$ SYNTHESIZED by SOL-GEL METHOD
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
15:45  Lukas Mayr

VP-8

Mayr L., Klötzer B., Zemlyanov D., Penner S.
PREPARATION and CHARACTERIZATION of PALLADIUM-ZIRCONIUM and COPPER-ZIRCONIA UHV MODEL CATALYSTS for C_1-SURFACE REACTIONS
University of Innsbruck (Innsbruck), Austria

16:00  Simon Penner

OP-9

Penner S., Thalinger R., Opitz A. K., Heggen M., Stroppa D., Schmidmair D., Fleig J., Klötzer B.
WATER-GAS-SHIFT and METHANE REACTIVITY on REDUCIBLE PEROVSKITE-TYPE OXIDES
University of Innsbruck (Innsbruck), Austria

16.15 – 16:35  Coffee – break

September 5 (Saturday)
Conference hall

FLASH – PRESENTATIONS OF POSTERS
Chairperson: Roman V. Gulyaev

Section VI: Preparation of catalysts and adsorbents

16:35  Evgeniya Ishchenko

FP-1

Ishchenko E.V., Kardash T.Y., Andrukevich T.
MoVTeNb CATALYST in the SELECTIVE OXIDATIVE TRANSFORMATIONS of PROPANE
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

16:40  Ivan Shamanaev

FP-2

DEVELOPMENT and OPTIMIZATION of Ni_2P/SiO_2 CATALYSTS for METHYL PALMITATE HYDRODEOXYGENATION
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

Section III: Catalysis for fine organic synthesis, natural gas and petroleum chemistry

16:45  Irina Tokareva

FP-3

Tokareva I.V., Mishakov I.V., Vedyagin A.A.
SYNTHESIS of CARBON-CARBON COMPOSITES via CATALYTIC PROCESSING of HYDROCARBONS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
16:50 Anton Salnikov
FP-5
Salnikov A., Yashnik S., Kerzhentsev M., Ismagilov Z., Yaming J., Koseoglou O.
INFLUENCE of the NATURE of SULFUR-ORGANIC MOLECULES on ODS
CATALYTIC ACTIVITY of MODIFIED CuZnAl-O CATALYST
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

16:55 Nikolay Gromov
FP-6
Gromov N.V., Semeikina V. S., Taran O. P., Parkhomchuk E.V., Aymonier C.,
Parmon V. N.
DEVELOPMENT of SOLID ACID CATALYSTS BASED on CARBON and
METAL OXIDES for CONVERSION of CELLULOSE into 5-
HYDROXYMETHYLFURFURAL
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

17:00 Vasily Evtushok
FP-7
Evtushok V.Yu., Zalomaeva O.V., Skobelev I.Y., Maksimov G.M., Kholdeeva O.A.
SELECTIVE OXIDATION OF PSEUDOCUMENE WITH HYDROGEN PEROXIDE
CATALYZED BY DIVANADIUM-SUBSTITUTED γ-KEGGIN
POLYOXOMETALATE
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

17.00 – 18.00 POSTER SESSION

PP-1 Julia Khatsrinova
Khatsrinova J., Khatsrinov A.
STRUCTURE and PROPERTIES of CATALYSTS CONTAINING Mo
Kazan National Research Technological University, Kazan, Russia

PP-2 Alya Khusnuriyalova
THE NEW METHODS of OBTAINING and ACTIVATION ORGANONICKEL CATALYSTS for
OLIGOMERIZATION and POLYMERIZATION of ETHYLENE
Kazan State University, Kazan, Russia

PP-3 Arcady Kuramshin
SOLVENT INFLUENCE on DIALKYLPHOPHITES' INTERACTION with
HEXACARBONYLMETALS(0)
Kazan State University, Kazan, Russia

PP-4 Mariya Pisareva
ENERGY and RESOURCE-SAVING METHOD of PRODUCING MOLYBDENUM CATALYST
for the EPOXIDATION of OLEFIN
Kazan National Research Technological University, Kazan, Russia

PP-5 Tatyana Sergeeva
A.Y., Konovalov A.I.
APPLICATION of SODIUM OCTACARBOXYLATE RESORCINARENES in SYNTHESIS of
SILVER NANOPARTICLES
Arbuzov Institute of Organic & Physical Chemistry, Kazan, Russia
PP-6 Evgeny Faingold
Faingold E.E., Bakhina O.N., Saratovskikh S.L., Panin A.N., Bravaya N.M.
SYNTHESIS and APPLICATION of ARYLOXYISOBUTYLALUMINUM COMPOUNDS as EFFECTIVE ACTIVATORS of METALLOCENE COMPLEXES in OLEFIN POLYMERIZATION
Institute of Problems of Chemical Physics RAS, Chernogolovka, Russia

PP-7 Anna Gavrilova
Gavrilova A.A., Shikina N., Yashnik S., Ushakov B., Ischenko A., Ismagilov Z.R.
THE STRUCTURE of Mn-La MONOLITHIC CATALYSTS SYNTHESIZED by the “SOLUTION COMBUSTION” METHOD
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-8 Nurgul Shadin
Shadin N.A., Zakarina N.A., Volkova L.D.
RESEARCH and DESIGN of HZSM - 5 ZEOLITE-CONTAINING CATALYST on AL - PILLARED MONTMORILLONITE for VACUUM GAS OIL CRACKING
D.V. Sokolskiy Institute of Organic Catalysis and Electrochemistry, Almaty, Kazakhstan

PP-9 Yuliya Razuvayeva
Razuvayeva Y.S., Usmanova Y.K.
EFFECT of LIGAND of CATALYST on the DECAY of CUMENE HYDROPEROXIDE
Kazan National Research Technological University, Kazan, Russia

PP-10 Aliya Sadykova
Sadykova A.I., Yakevich E.I., Mirgorodskaya A.B., Zakharova L.Ya.
CATALYTIC PROPERTIES of CATIONIC SURFACTANTS
Kazan National Research Technological University, Kazan, Russia

PP-11 Yulduz Usmanova
Usmanova Y., Razuvayeva Y.
DECOMPOSITION of CUMENE HYDROPEROXIDE UNDER THE ACTION of MAGNESIUM and CALCIUM 2-ETHYLHEXANOATES
Kazan National Research Technological University, Kazan, Russia

PP-12 Guzel Ziatdinova
ETHYLBENZENE HYDROPEROXIDE DECOMPOSITION in the PRESENCE of VANADYL ACETYLACETONATE
Kazan National Research Technological University, Kazan, Russia

PP-13 Anastasiya Shesterkina
Shesterkina A.A., Kirichenko O.A., Kustov L.M.
EFFECT of PREPARATION CONDITIONS on HYDROGENATION of PHENYLACETYLENE over the Pd-Fe/SiO2 CATALYSTS
N.D. Zelinsky Institute of Organic Chemistry RAS Zelinsky Institute of Organic Chemistry RAS, Moscow, Russia

18:30 Welcome Reception
September 6 (Sunday)
Conference hall

PLENARY LECTURES
Chairperson: Oxana A. Kholdeeva

9.00  Professor Dmitry Yu. Murzin
PL-6  CATALYSIS for BIOREFINERY
      Abo Akadimi University, Turku, Finland

9.30  Professor Artem N. Bezrukov
PL-7  Bezrukov A.N., Shamov A.G., Khapkovskiy G.M.
      RESEARCH in CATALYSIS at KAZAN NATIONAL RESEARCH
      TECHNOLOGICAL UNIVERSITY
      Kazan National Research Technological University, Kazan, Russia

10.00 Professor Andrey V. Simakov
PL-8  NANOREACTORS in CATALYSIS
      Centro de Nanociencias y Nanotecnologia, UNAM, Ensenada, BC

10.30 Professor Sergey A. Beloshapkin
PL-9  TIME-of-FLIGHT SECONDARY ION MASS SPECTROMETRY: TECHNIQUES
      AND APPLICATIONS for the CHARACTERIZATION of CATALYSTS
      Materials & Surface Science Institute, University of Limerick, Limerick, Ireland

11.00 – 11:20  Coffee – break

Section IV: Kinetics and modeling of catalytic reactions and reactors

11:20  Dmitry Krasnikov
OP-10  Krasnikov D.V.¹², Kuznetsov V.L.², Shmakov A.N.², Selyutin A.G.¹, Ischenko A.V.¹
       A MODEL for the ACTIVATION of METALLIC CATALYSTS for MULTI-
       WALLED CARBON NANOTUBE GROWTH
       ¹Novosibirsk State University, Novosibirsk, Russia
       ²Boreskov Institute of catalysis SB RAS, Novosibirsk, Russia

11:35  Shokirbek Shermukhamedov
OP-11  Shermukhamedov S.A., Glukhov D.V., Nazmutdinov R.R.,
       MONTE CARLO SIMULATIONS OF NiCu NANOPARTICLES
       Kazan National Research Technological University, Kazan, Russia
Max Nazarov
OP-12
Nazarov M., Urtyakov P.V., Lamberov A.A.
MATHEMATICAL ANALYSIS OPTIONS to UPGRADE DEHYDROGENATION ISOAMYLENES to ISOPRENE PLANTS and CONDUCT PILOT TESTS
Kazan State University, Kazan, Russia

Section III: Catalysis for fine organic synthesis, natural gas and petroleum chemistry

Hamidreza Arandiyan
OP-13
COLLOIDAL CRYSTAL TEMPLATING of THREE-DIMENSIONALLY ORDERED MACROPOROUS PEROVSKIT: APPROACHES to CATALYST with HIERARCHICAL POROSITY
Particles and Catalysis Research Group, School of Chemical Engineering, The University of New South Wales, Sydney, Australia

Ekaterina Kulchakovskaya
OP-14
Kulchakovskaya E., Asalieva E., Sineva L., Mordkovich V.
IMPACT of ALUMINUM FLAKES SIZE on PERFORMANCE of Co-BASED CATALYST in FISCHER–TROPSCH SYNTHESIS
Federal state bugetary institution “Technological institute for superhard and novel carbon materials”, Moscow, Russia

Samira Suleymanova
OP-15
Khanmetov A., Khamiyev M., Aliyeva N., Suleymanova S.A., Ismailov E.
ZIRCONIUM PHENOLATE BASED CATALYSTS for ETHYLENE OLIGOMERIZATION: SYNTHESIS, COMPOSITION, STRUCTURE and ACTIVITY
Institute of Petrochemical Processes of ANAS, Baku, Azerbaijan

Raffael Rameshan
OP-16
CARBIDE and GRAPHENE GROWTH, SUPPRESSION and DISSOLUTION in Ni MODEL SYSTEMS STUDIED by in-situ XPS AND SXRD
University of Innsbruck (Innsbruck), Austria (Innsbruck), Austria

13.05-14.30 Lunch
Section II: Catalysis in energy production, electrocatalysis

14:30
Dmitriy Potemkin
OP-17

Potemkin D.I. 1,2, Konishcheva M.1, Snytnikov P.1, Sobyanin V.1
SELECTIVE CO METHANATION OVER Ni-, Co- AND Fe/FeO2 CATALYSTS
1Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
2Novosibirsk State University, Novosibirsk, Russia

14:45
Ramona Thalinger
OP-18

Thalinger R., Heggen M., Schmidmair D., Klötzer B., Penner S.
METALS (Ni, Rh, CO) on PEROVSKITES (LSF, STF) for SOFC USAGE
University of Innsbruck (Innsbruck), Austria

15:00
Marina Arapova
OP-19

Arapova M.V., Pavlova S.N., Parkhomenko K.V., Glasneva T.S., Larina T.V.,
Rogov V.A., Krieger T.A., Sadykov V.A., Roger A.-C.
HYDROGEN PRODUCTION via STEAM REFORMING OF BIO-OIL’S LIGHT
COMPONENTS – ETHANOL and GLYCEROL - OVER SUPPORTED
NIKELATES
Boreskov Institute of catalysis SB RAS, Novosibirsk, Russia

Section I: Catalysis for environmental protection, photocatalysis

15:15
Artem Gushchin
OP-20

Recatala D., Llusar R., Gushchin A.L.
MOLYBDENUM CLUSTER SULPHIDES AS CATALYSTS FOR HYDROGEN
PRODUCTION FROM WATER
Nikolaev Institute of Inorganic Chemistry of SB RAS, Novosibirsk, Russia

15:30 – 16:00
Coffee – break
September 6 (Sunday)
Conference hall

FLASH – PRESENTATIONS OF POSTERS
Chairperson: Tatyana Yu. Kardash

Section V: Mechanisms of heterogeneous catalysis, methods of catalyst characterization

16:00 Dmitry Svintsitskiy
FP-8
EFFECT of COPPER OXIDE SINTERING on CATALYTIC CO OXIDATION
Boreskov Institute of catalysis SB RAS, Novosibirsk, Russia

16:05 Alexandr Khudozhitkov
FP-9
Khudozhitkov A.E., Kolokolov D.I., Arzumanov S.S., Toktarev A.V., Stepanov A.G.,
STUDYING of the MOBILITY of METHANE in MFI-TYPE ZEOLITES: H-ZSM-5, Ag/H-ZSM-5 and SILICALITE-1 by MEANS of SOLID STATE 2H NMR
Novosibirsk State University, Novosibirsk, Russia

Section I: Catalysis for environmental protection, photocatalysis

16:10 Artemyi Ayusheev
FP-11
Taran O.P., Yashnik S.A., Ayusheev A.B., Prihod’ko R.V., Ismagilov Z.R., Goncharuk V.V., Parmon V.N.
Cu-SUBSTITUTED ZSM-5 ZEOLITE AS CATALYSTS FOR WET PEROXIDE OXIDATION OF RHODAMIN 6G
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

16:15 Roman Shutilov
FP-12
Shutilov R.A., Zenkovets G.A., Gavrilov V.Y.
Cu/ZSM-5 PREPARATION with CuOx SPECIES of DIFFERENT STRUCTURE and THERE CATALYTIC PROPERTIES in SCR NO with PROPANE
Boreskov Institute of catalysis SB RAS, Novosibirsk, Russia

16:20 Anna Kurenkova
FP-13
Kurenkova A.Y., Semeykina V.S., Kozlova E.A.
PHOTOCATALYTIC HYDROGEN PRODUCTION on Cd_{1-x}Zn_{x}S and Cd_{0.5}Zn_{0.5}S/TiO_{2} CATALYSTS under VISIBLE LIGHT
Novosibirsk State University, Novosibirsk, Russia

16:25 Ngo Quyen
FP-14
Quyen N., Sibagatullin A.A., Sitmuratov T.S., Grigoriev E.I., Petukhov A.A.
ENHANCEMENT of the OZONATION PROCESS of WASTEWATER by USING the ADDITIVES
Kazan National Research Technological University, Kazan, Russia
16:30 Vladimir Rogozhnikov
FP-15
Rogozhnikov V.N., Porsin A.V., Kulikov A.V., Zaikovskii V.I.
DEEP OXIDATION of PROPADE-BUNLANE MIXTURE on Pt-WO₃/Al₂O₃/METAL GAUZE CATALYST
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

Section IV: Kinetics and modeling of catalytic reactions and reactors

16:35 Gulnaz Arslanova
FP-16
Arslanova G.G., Saygitbatalova S.S., Cherezova E.N.
GETTING EFFECTIVE METHYLENEBIS PHENOLIC STABILIZERS USING CATION EXCHANGE RESINS
Kazan National Research Technological University, Kazan, Russia

16:40 Valery Ustyugov
FP-17
Ustyugov V.V., Finkelstein E.A., Lashina E.A., Chumakova N.A., Gornov A.Y.,
Kaichev V.V., Bukhtiyarov V.V.
INFLUENCE OF OXYGEN BULK DIFFUSION ON OSCILLATORY REGIMES IN METHANE OXIDATION OVER NICKEL: MATHEMATICAL MODELLING
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

16.45 – 17.30 POSTER SESSION

PP-14 Tatyana Kardash
Pd LOCALIZATION in Ce₁₋ₓPdₓO₂₋₅ SOLID SOLUTIONS by ANOMALOUS X-RAY PDF
¹Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
²Novosibirsk State University, Novosibirsk, Russia

PP-15 Guzel Galiullina
CONFORMATION ANALYSIS of the SILVER(1)-P-TOLUENESULFONATE MOLECULE BY USING QUANTUM CHEMICAL METHODS
Kazan National Research Technological University, Kazan, Russia

PP-16 Ilgiza Shaimukhmetova
Shaimukhmetova I.P., Garifzianova G.G.
THEORETICAL STUDY of the PLATINUM (0)-1,3-DIVINYL-1,1,3,3-TETRAMETHYLDISILOXANE COMPLEX STRUCTURE
Kazan National Research Technological University, Kazan, Russia

PP-17 Elina Vasiljeva
Vasiljeva E., Garifzianova G.G.
THEORETICAL STUDY of the STRUCTURE of DICHLOROBIS(4-METHYLPYRIMIDINE)-BIS(TRIPHENYLPHOSPHINE)RUTHENIUM(II)
Kazan National Research Technological University, Kazan, Russia
PP-18 Marina Yakunina
Yakunina M., Abroskina M.
DESIGN CONFORMATION of the ((2-METHOXY-PENTAN-3-YL)-OXY)DIOXOOSMIUM with QUANTUM CHEMICAL METHODS
Kazan National Research Technological University, Kazan, Russia

PP-19 Lidiya Kibis
Kibis L.S., Stadnichenko A.I., Kosheev S.V., Zaykovskii V.I., Boronin A.I.
The XPS STUDY of HIGHLY OXIDIZED RHODIUM NANOPARTICLES: CHARGING STATES, THERMAL STABILITY and REACTIVITY
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-20 Faik Ayupov
MODELING of the STRUCTURE (2,6-BIS((DICHLOOROPHOSPHINO)METHYL)-PHENYL)(2,2,2-TRIFLUOROACETOXY)PALLADIUM
Kazan National Research Technological University, Kazan, Russia

PP-21 Sergei Kobzhev
AB INITIO MODELING of COMPLEX RUTHENIUM (II)
Kazan National Research Technological University, Kazan, Russia

PP-22 Dmitry Troshin
ANALYSIS of the GAS PHASE DURING OXIDATION METHANOLE at PRESENCE of the CATALYST on BASE of Fe$_2$(MoO$_4$)$_3$
JSC "Uralchimplast", Nigniy Tagil, Russia

PP-23 Valentina Starshinova
Starshinova V.L., Shinkarev A.A., Gnevashev S.G., Abdullin I.S.
INFLUENCE of PLASMA-CHEMICAL TREATMENT on the PILLARED MATERIALS CATALYTIC ACTIVITY
Kazan National Research Technological University, Kazan, Russia

PP-24 Igor Zharkov
Zharkov I.V., Bravaya N.M., Faingold E.E.
1H NMR STUDY of COMPLEXATION REACTION of THF with SEVERAL ORGANOALUMINIUM COMPOUNDS OPERATING as ACTIVATORS of IVB METALLOCENE COMPLEXES
Institute of Problems of Chemical Physics RAS, Chernogolovka, Russia

PP-25 Julia Gulyaeva
KINETIC STUDY of the ONE-POT PROCESS of VALERIC ACID into N-NONANE
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-26 Uliana Efanova
Efanova U., Vernikovskaya N.V., Pavlova T.L., Noskov A.S.
MATHEMATICAL MODELING of SOOT TRAPPING BOTH INSIDE and ABOVE POROUS MATERIALS of CATALYTIC FILTERS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
Albert Galiullin
Galiullin A.N., Bravaya N.M., Faingol'd E.E., Panin A.N., Saratovskikh S.L., Vasiliev S.G., Dremova N.N.
NEW NANOCOMPOSITE MATERIALS BASED on ETHYLENE - PROPYLENE COPOLYMER and MODIFIED NAFENTM
Lomonosov Moscow State University, Moscow, Russia

Andrey Kirsankin
HYDROGEN and OXYGEN INTERACTION with SINGLE SUPPORTED GOLD nanoparticles
Semenov Institute of Chemical Physics RAS, Moscow, Russia

Elena Povarova
Povarova E.I., Mikhalenko I.I., Pylinina A.I.
PLASMA CHEMICAL TREATMENT as METHOD of MODIFICATION of the CATALYTIC PROPERTIES of Conductors TYPE of NASICON and BIMEVOX
Peoples’ Friendship University of Russia, Moscow, Russia

Alexandra Mukharinova
Mukharinova A.I., Zubkevich S.V., Gagieva S. Ch., Tuskaev V.A., Bulychev B.M.
TITANIUM (4+) POLYMETALLIC COMPOUNDS with OO-TYPE LIGANDS as CATALYSTS for ETHYLENE POLYMERIZATION
Lomonosov Moscow State University, Moscow, Russia

Alper Sevinç
Sevinç A., Karakaş G., Atamer İ.B.
CATALYST for COMPLETE OXIDATION of NITROGEN CONTAINING SAMPLES
Middle East Technical University Technical University, Ankara, Turkey

Markovskaya D.V., Kozlova E.A., Parmon V.N.
THE SYNTHESIS OF CATALYSTS BASED on Ni- AND Cu-DOPED Cd0.3Zn0.7S for PHOTOCATALYTIC HYDROGEN PRODUCTION UNDER VISIBLE LIGHT
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

Ottenbacher R.V., Bryliakov K.P., Talsi E.P.
ASYMMETRIC EPOXIDATION OF OLEFINS WITH H2O2 CATALYZED BY NON-HAEM AMINOPYRIDINE MANGANESE COMPLEXES: INFLUENCE OF STERIC AND ELECTRONIC PROPERTIES OF LIGANDS ON ENANCTIOSELECTIVITY
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

SELF-ORGANIZING CATALYSIS for DECOMPOSITION of INDUSTRIAL ORGANOCHLORINE WASTES
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

2-IMINOPYRIDYL NICKEL(II) COMPLEXES BEARING ELECTRON-WITHDRAWING GROUPS in the LIGAND CORE: ETHYLENE OLIGOMERIZATION and POLYMERIZATION BEHAVIOR
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia
EPR SPECTROSCOPIC STUDY of the ACTIVE SPECIES of CATALYTIC ALKENE
EPOXIDATION MEDIATED by BIOMIMETIC FERRIC COMPLEXES
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-37* Banzaraktsaeva S.P., Ovchinnikova E.V., Vernikovskaya N.V., Chumachenko V.A.
SIMULATION of ETHANOL to ETHYLENE DEHYDRATION on ALUMINA CATALYST in
MULTITUBULAR REACTOR
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-38* Brayko A.S., Kirillov V.A., Amosov Y.I.
CATALYSTS BASED on FOAM MATERIALS for STEAM REFORMING of NATURAL GAS
to SYNTHESIS GAS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-39* Sychenko D., Volodin A., Larichkin V.
DEVELOPMENT of TECHNOLOGY for PVC RECYCLING by CATALYTIC THERMOLYSIS
to OBTAIN STRUCTURED CARBON and IRON CHLORIDES
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-40* Pogodkina S., Gribovskyi A., Ovchinnikova E., Vernikovskaya N., Chumachenko V., Makarshin L.
MICROCHANNEL REACTOR for METHANOL to FORMALDEHYDE OXIDATION:
EXPERIMENTAL STUDIES and SIMULATION
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-41* Koshevoy E.I., Mikenas T.B., Zakharov V.A.
STUDY OF TITANIUM COMPOUNDS AND THEIR TRANSFORMATION INTO THE ACTIVE
SITES of SUPERACTIVE ‘LOW-PERCENTAGE’ TITANIUM-MAGNESIUM CATALYSTS
FOR ETHYLENE POLYMERIZATION
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-42* Babenko I.A., Vilms A.I.
THE BEHAVIOR OF A CATALYST SYSTEM DEPENDING ON THE NATURES OF THE
STARTING CHROMIUM(III) COMPLEX COMPOUND
Irkutsk State University (Irkutsk), Russia

PP-43* Abbasov V., Ismailov E., Aliyev L., Afandiyeva L., Nuriyev L., Suleymanova S.,
Seidahmadova F.
LIQUID-PHASE AEROBIC OXIDATION of PETROLEUM HYDROCARBONS in the
PRESENCE of PENTANUCLEAR CR-COMPLEXES
Institute of Petrochemical Processes, Azerbaijan National Academy of Sciences (Baku),
Azerbaijan

PP-44* Andreev A.S., Kazakova M.A., Lapina O.B., Kuznetsov V.L.
FERROMAGNETIC $^{59}$Co NMR STUDY of Co NANOPIERLCE SUPPORTED on MULTI-
WALL CARBON NANOTUBES for CATALYTIC APPLICATIONS
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-45* Barsukov D.V., Subbotina I.R.
ENHANCED PHOTOCATALYTIC OXIDATION of CO on TITANIA DEPOSITED
with Ag NANOPIERLCE
Zelinsky Institute of Organic Chemistry RAS, Moscow, Russia
PP-46* Boldushevsky R. E., Grudanova A.I., Kozlov A.M., Stepanova T.A.
ANALYSIS of COKE DEPOSITS on DIESEL DEWAXING LABORATORY CATALYSTS SAMPLES
Gubkin Russian State University of oil and gas (Moscow), Russia

PP-47* Irgashev Yo.T., Ziyadullaev O.E., Turabdjanov S.M., Nurmanov S.E.
HOMOGENOUS CATALYTIC VINYLATION of AROMATIC ACETYLENE ALCOHOLS in the HIGHER SYSTEM
Tashkent chemical technological Institute (Tashkent), Uzbekistan

PP-48* Kadirov Kh.I., Turabdjanov S.M., Ziyadullaev O.E.
RECEIVING of ZINCATE (1-HYDROXY-1-PHOSPHONOETHYL) PHOSPHONIC ACID and SCALE INHIBITOR COMPOSITION
Tashkent chemical technological Institute (Tashkent), Uzbekistan

PP-49* Kharitonov V.A., Grishin M.V., Shub B.R.
INFLUENCE of CHARGING due SUBSTRATE on the CATALYTIC PROPERTIES of ORGANOBORON NANOPARTICLES in the AMMONIA DECOMPOSITION REACTION
Semenov Institute of Chemical Physics RAS (Moscow), Russia

PP-50* Kochurova N.M., Salanov A.N.
SCANNING ELECTRON MICROSCOPY OBSERVATION of PLATINUM SURFACE TRANSFORMATION in OXYGEN ATMOSPHERE
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-51* Koklyuhin A.S., Salnikov V.A., Nikulshin P.A.
FEATURES OF THE CO-HYDROTREATING OF DIESEL CUTS AND VEGETABLE OILS OVER Co(Ni)6-PMo12S/Al2O3 CATALYSTS
Samara State Technical University (Samara), Russia

PP-52* Moiseenko A.P., Netskina O.V, Komova O.V, Simagina V.I.
EFFECT of CARBON PROPERTIES on ADSORPTION-CATALYTIC PURIFICATION of WATER from 1,2-DICHLOROBENZENE
Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

PP-53* Pinchuk A.V., Rozdyalovskaya T.A., Astafyeva S.A.
AN INVESTIGATION of CuO/γ-Al2O3 CATALYST for CHLOROBENZENE TOTAL OXIDATION
Institut of technical chemistry of ural branch of ras (Perm), Russia

PP-54* Prikhodko O.V., Belov V.V.
AMINATION of ETHANOL by AMMONIA at NEW Cu(Zn)-CONTAINING CATALYSTS
Ukrainian State University of Chemical Technology (Dnipropetrovsk), Ukraine

PP-55* Sheldaisov-Meshcheryakov A.A., Nikulshin P.A.
INFLUENCE of MIXED HETEROPOLYACIDS KEGGIN STRUCTURE H4 [SiW12Mo12O40] on THEIR ACTIVITY in the OXIDATIVE DESULFURIZATION of DIBENZOTHIOPHENE
Samara State Technical University (Samara), Russia
PP-56* Tarabrina D.A.¹, Vasilyeva M.S.¹, Kolycheva V.B.¹, Rudnev V.S.², Nedozorov P.M.
PLASMA ELECTROLYTIC FORMATION of Zn-CONTAINING OXIDE COATINGS on TITANIUM and the STUDY of THEIR STRUCTURE and PHOTOCATALYTIC ACTIVITY
Far Eastern Federal University (Vladivostok), Russia

PP-57* Zimina I.A., Tortseva T.V., Popova N.R.
CATALITIC OXIDATION of FERULIC ACID by PEROXIDE COMPOUNDS with HPA-5-Mn
Northern (Arctic) Federal University (Arkhangelsk), Russia

PP-58* Ziyadullaev O.E., Turabdjanov S.M., Ikramov A.I., Abdurakhmanova S.S.
HOMOGENEOUS CATALYTIC VINYLATION of AROMATIC ACETYLENE ALCOHOLS
Tashkent chemical technological Institute (Tashkent), Uzbekistan

18.00 Closing
(Conference hall)

20.00 Excursion