

XX

INTERNATIONAL CONFERENCE ON CHEMICAL THERMODYNAMICS IN RUSSIA

**SCHOOL-CONFERENCE ON CHEMICAL THERMODYNAMICS
FOR YOUNG SCIENTISTS**

PROGRAM

**NIZHNI NOVGOROD
22 — 26 JUNE, 2015**



Organizers

Lobachevsky State University of Nizhni Novgorod
Russian Foundation for Basic Research
The equipment center for collective use "New materials and
energy saving technologies"
(Lobachevsky State University of Nizhni Novgorod)
The Ministry of Education and Science
of the Russian Federation
Russian Academy of Sciences
Kurnakov Institute of General and Inorganic Chemistry
of the Russian Academy of Sciences (IGIC RAS)
Mendeleev Russian Chemical Society
The Ministry of Education and Science
of the Nizhni Novgorod region



The conference is supported by



Центр коллективного пользования научным оборудованием

**НОВЫЕ МАТЕРИАЛЫ И
РЕСУРСОСБЕРЕГАЮЩИЕ
ТЕХНОЛОГИИ**



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NETZSCH

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Contacts of Organizing Committee:

23 (building 2), Prospekt Gagarina, Nizhni Novgorod, 603950, Russia
Lobachevsky State University of Nizhni Novgorod
To: RCCT2015 Organizing committee
Fax: +7 (831) 462-32-34
E-mail: rcct2015nn@gmail.com
Website: <http://www.rcct2015.unn.ru/>

Section 1. General problems of chemical thermodynamics
E-mail: rcct2015nn1@gmail.com
Chairman: Gennady F. Voronin
Section secretary: Evgeny N. Bulanov

Section 2. Thermodynamics of individual chemical compounds
E-mail: rcct2015nn2@gmail.com
Chairman: Konstantin S. Gavrichev
Section secretary: Olga V. Krashenninnikova

Section 3. Thermodynamics of solutions and heterogeneous systems
E-mail: rcct2015nn3@gmail.com
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Section 4. Thermodynamics of surface phenomena and self-organization phenomena in fluid systems
E-mail: rcct2015nn4@gmail.com
Chairman: Alexander K. Shchekin
Section secretary: Alexey V. Markin

Section 5. Applied aspects of chemical thermodynamics
E-mail: rcct2015nn5@gmail.com
Chairman: Andrey A. Pimerzin
Section secretary: Elena A. Asabina

Round table: Chemical thermodynamics teaching**Chair:** Prof. Alexander Knyazev**Secretary:** PhD Evgeny Bulanov**Preliminary schedule of the conference**

June 22	June 23	June 24	June 25	June 26
8.30-10.00 Registration	9.00-10.00 Preparation of posters	9.00-10.00 Preparation of posters		10.00-13.35 Plenary lectures
10.00-10.30 Opening ceremony	10.00-12.50 Plenary lectures	10.00-12.50 Plenary lectures		13.35-14.30 General discussion. Awarding
10.30-13.30 Plenary lectures	12.50-13.10 Presentation of companies	12.50-14.20 Lunch		14.30-15.30 Closing ceremony
13.30 – 13.50 Presentation of companies	13.10-14.40 Lunch	14.20-18.20 Conference for young scientists	10.00-18.00 Excursions	
13.50-15.30 Lunch	14.00-17.00 Oral session (section 1, 2, 3, 4)	14.20-18.20 Oral session (section 3)		
15.30-17.30 Oral session (section 1, 2, 3, 5)	17.00-18.30 Poster session	17.00-18.30 Poster session		
18.00-19.30 Welcome party	18.30-19.00 Round table	18.30-22.00 Banquet		

The conference program is following

- Invited Plenary lectures (duration up to 45 min)
- Plenary lectures (duration up to 35 min)
- Oral reports (duration up to 15 min)
- Poster sessions (poster size 650×950 mm)
- Exhibitions of equipment, presentation of companies
- Social and cultural events for the participants

Organizing committee award for the best session report among the young scientists

Organizing committee RCCT-2015 established awards for the best oral session and poster reports among the young scientists. The jury will select award recipients following the results of session of young scientists.

PROGRAM OF RCCT-2015

(Sunday) – 21.06.2015 – Accommodation

1-st day (Monday) – 22.06.2015

8.30 – 10.00 Registration

10.00 – 10.30 Opening ceremony

Rector of NNGU professor Evgeny V. Chuprunov

Academician of RAS professor Anatoly I. Rusanov

Information report: professor Alexander V. Knyazev

10.30 – 11.15 Invited Plenary lecture **IL-1**

Professor Anatoly Ivanovich Rusanov. NOVEL THERMODYNAMIC POTENTIALS FOR SOLIDS AND HETEROGENEOUS SYSTEMS

11.15 – 12.00 Invited Plenary lecture **IL-2**

Professor Sergey Petrovich Verevkin, V.N. Emel'yanenko, D.H. Zaitsau. KIRCHHOFF'S LAW OF THERMOCHEMISTRY: NEW CENTURY – NEW CHALLENGE

12.00 – 12.20 Coffee Break

12.20 – 12.55 Plenary lecture **PL-1**

Professor Pertti Sakari Koukkari. APPLICATIONS OF CONSTRAINED GIBBS ENERGIES IN PROCESS AND MATERIALS RESEARCH

12.55 – 13.30 Plenary lecture **IL-3**

Professor Hans Andreas Heinrich Jess. ENERGY DEMAND FOR GLOBAL WELFARE AND ECOSYSTEM HEALTH

13.30 – 13.50 Presentation of companies: ANALIT

13.50 – 15.30 Lunch

15.30 – 17.30 Oral sessions

18.00 – 19.30 **Welcome party**

2-nd day (Tuesday) – 23.06.2015

9.00 – 10.00 Preparation of Posters

10.00 – 10.45 Invited Plenary lecture **IL-4**

Professor Didier Dalmazzone. MEASUREMENT AND MODELING OF THERMODYNAMIC PROPERTIES OF GAS HYDRATES IN RELATION WITH THEIR POTENTIAL USE IN NOVEL PROCESSES

10.45 – 11.20 Plenary lecture **PL-2**

Professor Etsuro Shibata, A. Iizuka, M. Sato, N. Onodera, T. Nakamura. VAPOR PRESSURE MEASUREMENTS OF METAL BROMIDES BY THE KNUDSEN EFFUSION METHOD

11.20 – 11.40 Coffee Break

11.40 – 12.15 Plenary lecture **PL-3**

Professor Yizhak Marcus. VOLUMETRIC PROPERTIES OF ROOM TEMPERATURE IONIC LIQUIDS

12.15 – 12.35 Presentation of companies: NETZSCH

12.35 – 14.00 Lunch

14.00 – 17.00 Oral session
17.00 – 18.30 Poster session (P) – **Sections 1,2**

3-rd day (Wednesday) – 24.06.2015 – Conference for young scientists

9.00 – 10.00 Preparation of Posters

10.00 – 10.35 Plenary lecture **PL-4**

Professor Valentina Leonidovna Stolyarova. THERMODYNAMIC MASS SPECTROMETRIC STUDIES OF MULTICOMPONENT SILICATE SYSTEMS

10.35 – 11.10 Plenary lecture **PL-5**

Professor Jaroslav Šesták. YET UNSETTLED CONSEQUENCES OF SAMPLE HEAT INERTIA AND TEMPERATURE GRADIENTS IN DIFFERENTIAL THERMAL MEASUREMENTS

11.10 – 11.30 Coffee Break

11.30 – 12.15 Invited Plenary lecture **IL-5**

Professor Alexey I. Victorov, M.A. Voznesenskiy, E.A. Safonova. EQUILIBRIUM NETWORKS IN SOLUTIONS OF WORMLIKE AGGREGATES: UNIVERSAL BEHAVIOR VS SPECIFIC CHEMISTRY

12.15 – 12.50 Plenary lecture **PL-6**

Professor Vladimir G. Baidakov. ON THE SIZE DEPENDENCE OF THE SURFACE FREE ENERGY OF LIQUID, GAS AND CRYSTAL NUCLEI (BY DATA OF MOLECULAR DYNAMICS SIMULATION)

12.50 – 14.20 Lunch

14.20 – 18.10 Oral session and Oral session for young scientists

17.00 – 18.30 Poster session (P) – **Sections 3,4,5**

18.30 – 22.00 **Banquet** – *optional program*

4-th day (Thursday) – 25.06.2015 – Excursions

2 types of excursions:

1. Semyonov is a town in Nizhny Novgorod region, notable for being a major center for traditional handicrafts such as Khokhloma wood painting and matryoshka dolls. + **Sightseeing tour of Nizhni Novgorod**

2. Gorodets is a town in Nizhny Novgorod region. There are several museums in the town, including the Gingerbread Museum and the Samovar Museum.

+ **Sightseeing tour of Nizhni Novgorod**

5-th day (Friday) – 26.06.2015

10.00 – 10.45 Invited Plenary lecture **IL-6**

Professor Stefano Vecchio Cipriotti, B. Brunetti, A. Ciccioli, G. Gigli, A. Lapi. THERMODYNAMIC STUDY ON DICATIONIC IONIC LIQUIDS AND SOLIDS. SHADOWS AND LIGHT IN THEIR THERMAL STABILITIES

10.45 – 11.30 Invited Plenary lecture **IL-7**

Professor Alexander Kimovich Shchekin, A.E. Kuchma, A.A. Lezova, D.S. Martyukova. THERMODYNAMICS OF MULTICOMPONENT CONDENSATION ON SMALL FREE DROPLETS

11.30 – 12.05 Plenary lecture **PL-7**

Dr. Florian Frank Heym, M. Krannich, A.Jess. CONTINUOUS DRYING OF GASES BY IONIC LIQUIDS

12.05 – 12.25 Coffee Break

12.25 – 13.00 Plenary lecture **PL-8**

Professor Andrey Kirillovitch Lyashchenko. THE CONCENTRATION TRANSITION FROM WATER–ELECTROLYTE TO ELECTROLYTE–WATER SOLVENT

13.00 – 13.35 Plenary lecture **PL-9**

Professor Deresh Ramjugernath. DEVELOPMENT OF EXPERIMENTAL EQUIPMENT AND MODELS FOR THERMOPHYSICAL PROPERTIES

13.35 – 14.30 General discussion. Awarding

14.30 – 15.30 **Closing ceremony**

The list of plenary lectures

Invited Plenary Lectures

Professor Anatoly Ivanovich Rusanov

Mendeleev Center, Saint Petersburg State University, Saint Petersburg, Russia

NOVEL THERMODYNAMIC POTENTIALS FOR SOLIDS AND HETEROGENEOUS SYSTEMS

Professor Sergey Petrovich Verevkin, V.N. Emel'yanenko, D.H. Zaitsau

Department of Physical Chemistry, University of Rostock, Rostock, Germany

KIRCHHOFF'S LAW OF THERMOCHEMISTRY: NEW CENTURY – NEW CHALLENGE

Professor Hans Andreas Heinrich Jess

Chair of Chemical Engineering, Center of Energy Technology, University of Bayreuth, Bayreuth, Germany

ENERGY DEMAND FOR GLOBAL WELFARE AND ECOSYSTEM HEALTH

Professor Didier Dalmazzone

Chemistry and Chemical Engineering Department ENSTA ParisTech, France

MEASUREMENT AND MODELING OF THERMODYNAMIC PROPERTIES OF GAS HYDRATES IN RELATION WITH THEIR POTENTIAL USE IN NOVEL PROCESSES

Professor Alexey I. Victorov, M.A. Voznesenskiy, E.A. Safonova

Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia

EQUILIBRIUM NETWORKS IN SOLUTIONS OF WORMLIKE AGGREGATES: UNIVERSAL BEHAVIOR VS SPECIFIC CHEMISTRY

Professor Stefano Vecchio Cipriotti¹, B. Brunetti², A. Ciccioi³, G. Gigli³,
A. Lapi³

¹*Dipartimento S.B.A.I., Sapienza University of Rome, Roma, Italy*

²*Istituto per i Materiali Nanostrutturati, Consiglio Nazionale delle Ricerche, Dipartimento di Chimica, Rome, Italy*

³*Dipartimento di Chimica, Rome, Italy*

THERMODYNAMIC STUDY ON DICATIONIC IONIC LIQUIDS AND SOLIDS. SHADOWS AND LIGHT IN THEIR THERMAL STABILITIES

Professor Alexander Kimovich Shchekin, A.E. Kuchma, A.A. Lezova,
D.S. Martyukova

Department of Statistical Physics, Faculty of Physics, Saint Petersburg State University, Saint Petersburg, Russia

THERMODYNAMICS OF MULTICOMPONENT CONDENSATION ON SMALL FREE DROPLETS

Plenary Lectures

Professor Pertti Sakari Koukkari

VTT Technical Research Centre of Finland, VTT, Finland

APPLICATIONS OF CONSTRAINED GIBBS ENERGIES IN PROCESS AND MATERIALS RESEARCH

Professor Etsuro Shibata, A. Iizuka, M. Sato, N. Onodera, T. Nakamura

Institute of Multidisciplinary Research for Advanced Materials, Tohoku University, Japan

VAPOR PRESSURE MEASUREMENTS OF METAL BROMIDES BY THE KNUDSEN EFFUSION METHOD

Professor Andrey Kirillovitch Lyashchenko

Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia

THE CONCENTRATION TRANSITION FROM WATER-ELECTROLYTE TO ELECTROLYTE-WATER SOLVENT

Professor Yizhak Marcus

Institute of Chemistry, Hebrew University, Jerusalem, Israel

VOLUMETRIC PROPERTIES OF ROOM TEMPERATURE IONIC LIQUIDS

Professor Valentina Leonidovna Stolyarova

Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia

THERMODYNAMIC MASS SPECTROMETRIC STUDIES OF MULTICOMPONENT SILICATE SYSTEMS

Professor Jaroslav Šesták

*New Technology - Research Centre in the Westbohemian Region, West Bohemian University,
Pilsen, Czech Republic*

YET UNSETTLED CONSEQUENCES OF SAMPLE HEAT INERTIA AND
TEMPERATURE GRADIENTS IN DIFFERENTIAL THERMAL
MEASUREMENTS

Professor Vladimir G. Baidakov

*Institute of Thermophysics, Ural Branch of the Russian Academy of Sciences, Yekaterinburg,
Russia*

ON THE SIZE DEPENDENCE OF THE SURFACE FREE ENERGY OF
LIQUID, GAS AND CRYSTAL NUCLEI (BY DATA OF MOLECULAR
DYNAMICS SIMULATION)

Professor Florian Frank Heym, M. Krannich, A.Jess

Chair of Chemical Engineering, University of Bayreuth, Bayreuth, Germany

CONTINUOUS DRYING OF GASES BY IONIC LIQUIDS

Professor Deresh Ramjugernath

*Thermodynamics Research Unit, School of Engineering, University of KwaZulu-Natal,
Durban, South Africa*

DEVELOPMENT OF EXPERIMENTAL EQUIPMENT AND MODELS FOR
THERMOPHYSICAL PROPERTIES.

Section 1

General problems of chemical thermodynamics

June, 22 (Monday)
15.30-17.30 Oral session

- 15.30-15.45** A.M. Kutvin^{1,2}, A.D. Plekhovich²
¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*G.G. Devyatykh Institute of Chemistry of High-Purity Substances, Russian Academy of Sciences, Nizhni Novgorod, Russia*
PRESETATION OF EXCESS THERMODYNAMIC FUNCTIONS OF GLASS-FORMING SYSTEMS IN DATABASES
- 15.45-16.00** A.L. Voskov
Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia
A NEW MODIFICATION OF THE MAXIMUM LIKELIHOOD METHOD FOR APPROXIMATION OF THERMODYNAMIC DATA SERIES
- 16.00-16.15** M.A. Varfolomeev, R.N. Nagrimanov, V.B. Novikov, B.N. Solomonov
Department of Physical Chemistry, Kazan Federal University, Kazan, Russia
NEW METHODS FOR DETERMINATION OF PHASE TRANSITION ENTHALPIES OF AROMATIC AND HETEROCYCLIC COMPOUNDS
- 16.15-16.30** A.E. Zelenaya¹, V.I. Lutsyk^{1,2}, E.R. Nasrulin¹
¹*Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
ELABORATION OF COMPUTER MODELS OF T-X-Y DIAGRAMS ON THE BOUND OF SYSTEM LiF-KF-RbF-PuF₃
- 16.30-16.45** P.P. Fedorov
A.M. Prokhorov General Physics Institute, Russian Academy of Sciences, Moscow, Russia
THERMODYNAMICS OF MORPHOTROPY
- 16.45-17.00** V.I. Lutsyk^{1,2}
¹*Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
CONCENTRATION FIELDS FOR THE MATERIALS GENOME DECODING
- 17.00-17.15** J.A. Awan^{1,3}, C. Coquelet², I. Tsivintzelis⁴, G.M. Kontogeorgis¹
¹*Center for Energy Resources Engineering, Department of Chemical and Biochemical Engineering, Technical University of Denmark, Lyngby, Denmark*
²*MINES ParisTech, PSL Research University, CTP - Centre of Thermodynamic of Processes, Fontainebleau, France*
³*Institute of Chemical Engineering and Technology, Faculty of Engineering and Technology University of the Punjab, Lahore, Pakistan*
⁴*Department of Chemical Engineering, Aristotle University of Thessaloniki, Thessaloniki, Greece*
VAPOR-LIQUID-LIQUID EQUILIBRIUM MEASUREMENTS AND MODELING OF METHANETHIOL OR ETHANETHIOL OR 1-BUTANETHIOL IN METHANE + WATER TERNARY SYSTEMS AT 303, 335, AND 365 K AND PRESSURE UP TO 9 MPa

June, 23 (Tuesday)
14.00-17.00 Oral sessions

- 14.00-14.15** P. Kangas, R. Pajarre, P.S. Koukkari
VTT Technical Research Centre of Finland, Finland
NON-EQUILIBRIUM AFFINITIES IN MULTI-PHASE GIBBS ENERGY MINIMISATION
- 14.15-14.30** E.A. Miroshnichenko, T.S. Kon'kova, Yu.N. Matyushin, A.B. Vorob'ev, A.A. Berlin
N.N. Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, Russia
ENERGIES OF REORGANIZATION OF RADICALS
- 14.30-14.45** M.K. Aldabergenov¹, G.T. Balakaeva², K. Kenes¹
¹*Al-Farabi Kazakh National University, Almaty, Kazakhstan*
²*K.I. Satpayev Kazakh National Technical University, Almaty, Kazakhstan*
THERMODYNAMIC DESCRIPTION OF BIFURCATION
- 14.45-15.00** E.L. Krasnykh
15.00-15.15 *Samara State Technical University, Samara, Russia*
QSPR-METHOD OF PREDICTION OF VAPORIZATION ENTHALPY FOR HALOGENALKANES
- 15.15-15.30** V.A. Polukhin^{1,2}, E.D. Kurbanova², N.S. Mitrofanova², A.E. Galashev¹
¹*Institute of Metallurgy, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
²*Institute of Material Studies and Metallurgy, Ural Federal University, Yekaterinburg, Russia*
THERMAL STABILITY OF THE INTERFACE STATES OF d-METALS (Cu, Pd, Ti, Ni) AND Al WITH GRAPHENE
- 15.30-15.45** L.P. Bondareva
Voronezh State University of Engineering Technologies, Voronezh, Russia
CALORIMETRY OF THE IONIC EXCHANGE IN MULTICOMPONENT SYSTEMS
- 15.45-16.00** V.P. Vorob'eva¹, V.I. Lutsyk^{1,2}
¹*Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
4D COMPUTER MODEL OF THE Fe-Ni-Cu-S SYSTEM T-x-y-z DIAGRAM
- 16.00-16.15** E.A. Kadyshovich
Obukhov Institute of Atmospheric Physics RAS, Moscow, Russia
LIFE ORIGINATION HYDRATE THEORY (LOH-THEORY): THERMODYNAMICS OF FORMATION OF AMINO ACIDS FROM NATURAL GAS AND NITER
- 16.15-16.30** A.B. Burchakov, E.M. Dvoryanova, I.M. Kondratyuk
General and Inorganic Chemistry Department, Samara State Technical University, Samara, Russia
COMPUTER 3D-MODELLING OF PHASE COMPLEX FOR TERNARY SYSTEM
- 16.30-16.45** V.M. Stepanov, A.N. Kolesnikov
G.G. Devyatikh Institute of Chemistry of High-Purity Substances of RAS, Nizhni Novgorod, Russia
ISOBARIC THERMAL CAPACITY WITH ACCOUNT OF CONFIGURATION CONSTITUENT

Section 2

Thermodynamics of individual chemical compounds

June, 22 (Monday)
15.30-17.30 Oral session

- 15.30-15.45** L.L. Pashchenko¹, E.A. Miroshnichenko², T.S. Kon'kova², T.N. Nesterova³
¹*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²*N.N. Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, Russia*
³*Samara State Technical University, Samara, Russia*
THERMODYNAMIC PROPERTIES OF SOME BIPHENYLS. ENTHALPIES OF FORMATION OF AROMATIC RADICALS
- 15.45-16.00** O.V. Mikhailov¹, D.V. Chachkov²
¹*Analytical Chemistry, Certification and Quality Management Department, Kazan National Research Technological University, Kazan, Russia*
²*Joint Supercomputer Center, Kazan Branch of the Russian Academy of Sciences, Kazan, Russia*
THERMODYNAMICS OF POLYATOMIC NITROGEN, PHOSPHORUS AND ARSENIC MOLECULES ACCORDING TO CALCULATION BY DFT METHOD
- 16.00-16.15** L.S. Kudin
Physics Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia
MOLECULAR AND ION SUBLIMATION OF HALIDE LANTHANIDE. THERMODYNAMIC PROPERTIES
- 16.15-16.30** S.M. Shugurov, S.I. Lopatin, A.I. Panin, K.A. Emelyanova
Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
THERMODYNAMICS AND STRUCTURES OF GASEOUS GERMANIUM SALTS
- 16.30-16.45** E.D. Nikitin, P.A. Popov
Institute of Thermal Physics, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia
CRITICAL PROPERTIES OF COMPONENTS OF BIODIESEL. *n*-ALKANOIC ACID METHYL ESTERS
- 16.45-17.00** L.N. Zelenina^{1,2}, T.P. Chusova¹, I.G. Vasilyeva¹
¹*Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia*
²*Novosibirsk State University, Novosibirsk, Russia*
THERMODYNAMIC PROPERTIES OF SAMARIUM, GADOLINIUM AND DYSPROSIUM POLYSELENIDES
- 17.00-17.15** V.V. Turovtsev¹, V.N. Emel'yanenko², Yu.D. Orlov¹
¹*Physico-Technical Faculty, Tver State University, Tver, Russia*
²*Chemistry Department, Kazan Federal University, Kazan, Russia*
CALCULATION OF THERMODYNAMIC PROPERTIES OF DIMETHYLENECYCLOURETHANE IN ANHARMONIC APPROXIMATION
- 17.15-17.30** A.V. Tyurin
Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
THERMODYNAMIC PROPERTIES OF CHALCOGENIDES OF INDIUM AND GALIUM IN THE WIDE TEMPERATURE RANGE

June, 23 (Tuesday)
14.00-17.00 Oral session

- 14.00-14.15** T.N. Nesterova¹, S.V. Tarazanov¹, A.I. Druzhinina², S.M. Pimenova², P.V. Naumkin³, A.M. Toikka³
¹Department of Chemical Technology, Samara State Technical University, Samara, Russia
²Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
³Department of Chemical Thermodynamics and Kinetics, Saint Petersburg State University, Saint Petersburg, Russia
EQUILIBRIA OF INTERCONVERSIONS, THERMODYNAMIC PROPERTIES OF TRET-BUTYLDIPHENYLOXIDES
- 14.15-14.30** A.N. Shushunov¹, O.N. Gorshkov¹, N.N. Smirnova¹, A.V. Knyazev¹, Ju.I. Chigirinskii¹, N.N. Efimov²
¹Research Institute for Physics and Technology, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
CALORIMETRIC AND MAGNETIC STUDY OF SYNTHETIC Ca₂Ge_(1-x)Cr_xO₄ MIXED CRYSTALS
- 14.30-14.45** Yu.D. Orlov, M.Yu. Orlov, E.M. Chernova, V.V. Turovtsev
Physico-Technical Faculty, Tver State University, Tver, Russia
ENTHALPY OF FORMATION OF ALKYL RADICALS
- 14.45-15.00** A.B. Remizov¹, R.A. Skochilov¹, O.V. Mikhailov²
¹General Chemical Technology Department, Kazan National Research Technological University, Kazan, Russia
²Analytical Chemistry, Certification and Quality Management Department, Kazan National Research Technological University, Kazan, Russia
COMPENSATION AND COOPERATIVE EFFECTS IN H-BOND THERMODYNAMICS OF HYDROPEROXIDES
- 15.00-15.15** E.I. Salnikova¹, O.V. Andreev², I.D. Komissarov¹, S.M. Antonov²
¹Agrarian University of North Urals, Tyumen, Russia
²Tyumen State University, Tyumen, Russia
THERMODYNAMIC BASIS OF PROCESSES FOR TREATMENT OF Ln₂(SO₄)₃ (Ln = La – Lu) IN THE HYDROGEN STREAM
- 15.15-15.30** T.V. Volkova, S.V. Blokhina, A.V. Sharapova, M.V. Ol'khovich, G.L. Perlovich
Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia
SUBLIMATION THERMODYNAMICS OF AMINOBENZOIC ACID, NICOTINIC ACID AND RELATED AMIDO-DERIVATIVES
- 15.30-15.45** V.V. Smolenski, A.V. Novoselova
Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia
THERMODYNAMICS OF NEODYMIUM BETWEEN GALLIUM–ALUMINUM LIQUID ALLOY AND LiCl–KCl MOLTEN SALT PHASES

Section 3

Thermodynamics of solutions and heterogeneous systems

June, 22 (Monday)
15.30-17.30 Oral session

- 15.30-15.45** A.M. Toikka
Department of Chemical Thermodynamics and Kinetics, Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
THERMODYNAMIC PECULIARITIES OF HETEROGENEOUS FLUID SYSTEMS WITH CHEMICAL INTERACTIONS: NEW EXPERIMENTAL AND THEORETICAL RESULTS
- 15.45-16.00** V.A. Durov
Faculty of Chemistry, Lomonosov Moscow State University, Moscow, Russia
QUASI-CHEMICAL APPROACH – NOVEL POWERFUL TOOL TO STUDY SUPRAMOLECULAR ORGANIZATION AND MICROSCOPIC EQUILIBRIUM AND NON-EQUILIBRIUM PROPERTIES OF NON-IDEAL LIQUID SYSTEMS
- 16.00-16.15** O.M. Alekseeva¹, L.S. Shibryaeva¹, A.V. Krementsova¹, A.V. Krivandin¹, O.V. Shatalova¹, L.D. Fatkullina¹, Yu.A. Kim², A.N. Golochshapov¹
¹*Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Moscow, Russia*
²*Institute of Cell Biophysics, Russian Academy of Sciences, Pushchino, Moscow region, Russia*
MELAMIN AND PHENOZAN DERIVATIVES ACTIONS ON THERMODYNAMIC AND STRUCTURAL PARAMETERS OF MULTILAMMELAR LIPOSOMES
- 16.15-16.30** E.A. Safonova¹, A.S. Koneva¹, S. Mohammad², C. Held²
¹*Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia*
²*Department of Biochemical and Chemical Engineering, Technische Universität Dortmund, Dortmund, Germany*
PARTITION BEHAVIOR OF SMALL BIOMOLECULES IN THE AQUEOUS BIPHASIC SYSTEM BASED ON ALKYLIMIDAZOLIUM IONIC LIQUID OR NONIONIC SURFACTANT: EXPERIMENT AND MODELING
- 16.30-16.45** I.A. Sedov, T.I. Magsumov
Chemical Institute, Kazan Federal University, Kazan, Russia
COMPARATIVE STUDY OF SOLVATION PROPERTIES IN MIXTURES OF WATER WITH ACETONE, TETRAHYDROFURAN AND ACETONITRILE
- 16.45-17.00** M.A. Kareva, E.G. Kabanova, V.N. Kuznetsov
Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
CALPHAD ASSESSMENT OF Au–Pd SYSTEM: A SIMPLE SYSTEM?
- 17.00-17.15** A.N. Kolesnikov, A.D. Bulanov, V.V. Balabanov
Institute of Chemistry of High-Purity Substances, Russian Academy of Sciences, Nizhni Novgorod, Russia
CALCULATION OF IMPURITY DISTRIBUTION DURING DIRECTED CRYSTALLIZATION WITH PRESENCE OF GAS PHASE

June, 23 (Tuesday)
14.00-17.00 Oral session

- 14.00-14.15** Yu.A. Budkov¹, A.L. Kolesnikov², N. Georgi³, M.G. Kiselev¹
¹*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Science, Ivanovo, Russia*
²*Ivanovo State University, Ivanovo, Russia*
³*Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany*
THE LOCAL PHASE TRANSITIONS OF THE SOLVENT IN THE NEIGHBORHOOD OF A SOLVOPHOBIC POLYMER AT HIGH PRESSURES
- 14.15-14.30** E.I. Efremova¹, Z.A. Kydriashova^{1,2}, L.A. Nosikova^{1,2}, M.R. Kiselev²
¹*Lomonosov Moscow State University of Fine Chemical Technology, Moscow, Russia*
²*Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*
THERMODYNAMICS OF PHASE TRANSITIONS IN SUPRAMOLECULAR LIQUID CRYSTAL SYSTEMS
- 14.30-14.45** G.I. Egorov, D.M. Makarov, A.M. Kolker
G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia
THERMODYNAMIC PROPERTIES OF WATER + HYDRAZINE MIXTURE OVER THE WIDE RANGE OF STATE PARAMETERS
- 14.45-15.00** N.N. Komova¹, L.S. Shibryaeva²
¹*Lomonosov Moscow State University of Fine Chemical Technologies, Moscow, Russia*
²*Emanuel Institute of Biochemical Physics, Russian Academy of Sciences, Moscow, Russia*
THE DEFINITION OF CHANGES OF THE ACTIVATION ENERGIES OF RELAXATION PROCESSES DURING THE FILLING OF THE LOW-DENSITY POLYETHYLENE
- 15.00-15.15** V.V. Korolkov, O.A. Golovanova, I.I. Chernousova
Omsk F.M. Dostoevsky State University, Omsk, Russia
THERMODYNAMIC REGULARITIES OF CALCIUM OXALATE CRYSTALLIZATION IN THE PRESENCE OF AMINO ACIDS
- 15.15-15.30** K.G. Peshkina, N.K. Tkachev
Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia
SPECIFIC FEATURES OF COMPLEX FORMATION IN MULTIVALENT METAL HALIDE MELTS
- 15.30-15.45** P.Y. Makarov, A.L. Voskov, I.B. Kutsenok
Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
THERMODYNAMIC MODELLING OF THE Na₂O–B₂O₃–SiO₂ SYSTEM
- 15.45-16.00** V.A. Mirskaya, N.V. Ibavov, D.A. Nazarevich
Institute of Physics, Daghestan Science Centre of the Russian Academy of Sciences, Machachkala, Republic of Daghestan, Russia
AZEOTROPE IN BINARY MIXTURE OF *n*-HEPTANE–WATER

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June, 24 (Wednesday)

14.20-18.20 Oral session

- 14.20-14.35** A.A. Samarov, A.M. Toikka, M.A. Toikka
Department of Chemical Thermodynamics and Kinetics, Saint Petersburg State University, Saint Petersburg, Russia
THE EXPERIMENTAL DATA ON CHEMICAL EQUILIBRIUM FOR THE SYSTEM ACETIC ACID + *n*-BUTANOL + *n*-BUTYL ACETATE + WATER
- 14.35-14.50** S. Afrin, Riyazuddeen
Department of Chemistry, Aligarh Muslim University, Aligarh, U.P., India
INTERACTION OF CURCUMIN WITH HUMAN SERUM ALBUMIN: CALORIMETRIC AND SPECTROSCOPIC STUDIES
- 14.50-15.05** P.A. Nikolaychuk¹, U.K. Deiters²
¹*Department of Analytical and Physical Chemistry, Chelyabinsk State University, Chelyabinsk, Russia*
²*Institut für Physikalische Chemie, Universität zu Köln, Köln, Deutschland*
THERMODYNAMIC EVALUATION OF CHEMICAL AND ELECTROCHEMICAL EQUILIBRIA INVOLVING AQUEOUS SULPHUR SPECIES AT AMBIENT AND ELEVATED TEMPERATURES AND PRESSURES
- 15.05-15.20** S.I. Sinyova, R.V. Starykh, M.O. Ilatovskaya
Saint Petersburg State Polytechnical University, Saint Petersburg, Russia
THE TECHNIQUE OF MULTICOMPONENT PHASE DIAGRAMS ONSTRUCTION WITH USAGE OF EXPERIMENTAL METHODS
- 15.20-15.35** O.V. Sobol
Donbas National Academy of Civil Engineering and Architecture, Makiyivka, Donetsk region
CALCULATION OF THERMODYNAMIC PARAMETERS OF CRYSTALLIZATION IN SYSTEM $\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$ – $\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$
- 15.35-15.50** V.M. Valyashko
Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
SUPERCritical EQUILIBRIA IN TERNARY SYSTEMS WITH ONE VOLATILE COMPONENT (CRITICAL PHENOMENA, SOLUBILITY AND IMMISCIBILITY)
- 15.50-16.05** A.G. Tyurin, A.I. Biryukov
Chemistry Department, Chelyabinsk State University, Chelyabinsk, Russia
POURBAIX DIAGRAM SYSTEM $\text{Zn} - \text{SO}_4^{2-} - \text{H}_2\text{O}$
- 16.05-16.20** I.M. Semenov, G.I. Repkin, V.A. Sharnin
Ivanovo State University of Chemistry and Technology, Ivanovo, Russia
THE THERMODYNAMICS OF SILVER(I)–2,2'-DIPYRIDYL COMPLEXATION IN MeOH–DMSO SOLVENT
- 16.20-16.35** M.A. Varfolomeev, B.N. Solomonov
Department of Physical Chemistry, Kazan Federal University, Kazan, Russia
GENERAL APPROACHES FOR PREDICTION AND ANALYSIS OF SOLVATION ENTHALPIES OF DIFFERENT ORGANIC COMPOUNDS IN PURE SOLVENTS
- 16.35-16.50** V.B. Fedoseev^{1,2}, M.V. Maximov²
¹*Department of Physics, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Razuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, Nizhni Novgorod, Russia*
OBSERVATION OF OSCILLATIONS OF SOLUTION – CRYSTAL PHASE TRANSITION
- 16.50-17.05** A.L. Kolesnikov^{1,2}, Yu.A. Budkov³, N. Georgi⁴, M.G. Kiselev³
¹*Ivanovo State University, Ermaka Str. 39, 153025 Ivanovo, Russia*
²*Institut für Nichtklassische Chemie e.V., Universität Leipzig, Leipzig, Germany*
³*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia*
⁴*Max Planck Institute for Mathematics in the Sciences, Leipzig, Germany*
A STATISTICAL THEORY OF COSOLVENT-INDUCED COIL-GLOBULE TRANSITIONS IN DILUTE POLYMER SOLUTION
- 17.05-17.20** S.M. Pestov
Department of Physical Chemistry, Lomonosov Moscow State University of Fine Chemical Technologies, Moscow, Russia
THERMODYNAMIC MODELLING OF SYSTEMS CONTAINING LIQUID CRYSTALS

Section 4

Thermodynamics of surface phenomena and self-organization phenomena in fluid systems

June, 23 (Tuesday)
14.00-17.00 Oral session

- 14.00-14.15** Yu.B. Vysotsky¹, E.A. Belyaeva², E.S. Kartashynska¹, N.A. Smirnova²
¹Donetsk National Technical University, Donetsk, Ukraine
²Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
**QUANTUM CHEMICAL APPROACH IN THE DESCRIPTION OF
1-(N-ALKYL)-IMIDAZOLES CLUSTERIZATION AT THE AIR/WATER INTERFACE**
- 14.15-14.30** A.D. Abbasov, F.S. Mammadova, F.F. Heydarova
Institute of Natural Resources of the Nakhchivan branch of Azerbaijan NAS, Nakhchivan, Azerbaijan
**THERMODYNAMIC CHARACTERISTICS OF SORPTION OF METAL-IONS BY
BIFUNCTIONAL ION EXCHANGERS**
- 14.30-14.45** K.V. Grzhegorzhevskii¹, A.A. Ostroushko¹, O.V. Koriakova², I.G. Ovchinnikova², G.A. Kim²
¹Institute of Natural Science, Ural Federal University, Yekaterinburg, Russia
²Institute of Organic Synthesis Ural Division of the Russian Academy of Sciences, Yekaterinburg, Russia
**NONREVERSIBLE RESONANCE ENERGY TRANSFER IN THE SUPRAMOLECULAR
STRUCTURE BASED ON THE TOROIDAL NANOCUSTER Mo₁₃₈ AND XANTHENE
DYE**
- 14.45-15.00** Y.A. Fedorovich, V.P. Malyshev, A.M. Makasheva, A.S. Kazhikenova
Chemical and Metallurgical Institute, Karaganda, Republic of Kazakhstan
**CLUSTER AND ASSOCIATE MODEL OF TEMPERATURE DEPENDENCY OF
SODIUM CHLORIDE DYNAMICAL VISCOSITY**
- 15.00-15.15** T.S. Lebedeva, A.K. Shchekin, D.V. Tatyanyanenko
Department of Statistical Physics, Faculty of Physics, Saint Petersburg State University, Saint Petersburg, Russia
**APPLICATION OF THE DENSITY FUNCTIONAL APPROACH TO
THERMODYNAMICS OF THIN FILM ON CHARGED SOLID PARTICLES**
- 15.15-15.30** M.M. Tihonov, O.Yu. Milyaeva, B.A. Noskov
Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
**DYNAMIC SURFACE PROPERTIES OF LYSOZYME SOLUTIONS: IMPACT OF
UREA AND GUANIDINE HYDROCHLORIDE**
- 15.30-15.45** M.A. Ziganshin¹, A.V. Gerasimov¹, V.V. Gorbachuk¹, S.A. Ziganshina²,
A.P. Chuklanov², A.A. Bukharaev²
¹Butlerov Institute of Chemistry, Kazan Federal University, Kazan, Russia
²Zavoisky Physical-Technical Institute, Kazan Scientific Center, Russian Academy of Sciences, Kazan, Russia
**INTERACTION OF SHORT-CHAIN OLIGOPEPTIDES WITH VAPORS:
THERMODYNAMICS AND CHANGE OF THIN FILMS MORPHOLOGY**
- 15.45-16.00** V.P. Malyshev, A.M. Makasheva, Y.A. Fedorovich
Chemical and Metallurgical Institute, Karaganda, Republic of Kazakhstan
**AGREED TEMPERATURE DEPENDENCE OF EVAPORATION, VISCOSITY AND
DENSITY OF MERCURY**

Section 5

Applied aspects of chemical thermodynamics

June, 22 (Monday)
15.30-17.45 Oral session

- 15.30-15.45** I.O. Voronin, N.V. Bilenchenko, T.N. Nesterova
Department of Chemical Technology, Samara State Technical University, Samara, Russia
THEORETICAL ASPECTS OF MODERNIZATION OF PARA-TERT-BUTYLPHENOL PRODUCTION
- 15.45-16.00** G.P. Doroshko
State Architectural-Building University, Samara, Russian
DISCRETE BASIS OF CHEMICAL THERMODYNAMICS PROJECT OF STRUCTURES
- 16.00-16.15** A.V. Nevsky¹, O.V. Kashina¹, D. Xia², L. Sun², H. Zhao², H. Zhong²
¹*General Chemical Engineering Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*
²*School of Environmental Engineering, Wuhan Textile University, Wuhan, China*
THERMODYNAMIC EXERGY ANALYSIS FOR DESIGNING OPTIMAL WATER-USE CHEMICAL PROCESSES
- 16.15-16.30** V.M. Khaltanova^{1, 2}, N.N. Smirnyagina^{1, 2}, D.B.-D. Tsyrenov¹
¹*Institute of Physical Materials Science, Siberian Branch of the Russian Academy of Sciences, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
THERMODYNAMIC MODELLING OF INTERACTION Ti, Cu AND NITROGEN WITH SiO₂ FOR OPTIMIZATION OF FORMATION CONDITIONS OF NANOCOMPOSITE TiN-Cu ON QUARTZ
- 16.30-16.45** V.I. Laptev
Moscow, Russia
FEATURE OF CHEMICAL ACTION OF INTERNAL STRAIN AT THE DIRECT NITROGEN OXIDATION
- 16.45-17.00** V.I. Lutsyk^{1, 2}, V.P. Vorobjeva¹
¹*Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
INTERNAL DIAGONALS PROBLEM IN POLYHEDRATION OF RECIPROCAL SYSTEMS
- 17.00-17.15** G.G. Mikhailov¹, L.A. Makrovets¹, L.A. Smirnov²
¹*Physical Chemistry Department, South Ural State University, Chelyabinsk, Russia*
²*Ural Institute of Ferrous Metals, Yekaterinburg, Russia*
THERMODYNAMICS OF BARIUM INTERACTION WITH IRON-BASED MELT COMPONENTS
- 17.15-17.30** P.V. Naumkin, A.M. Toikka, A.V. Penkova
Department of Chemical Thermodynamics and Kinetics, Saint Petersburg State University, Saint Petersburg, Russia
MODELING AND ANALYSIS OF MEMBRANE PROCESSES USING NON-EQUILIBRIUM THERMODYNAMICS APPROACH: CASE OF PERVAPORATION
- 17.30-17.45** N.N. Smirnyagina^{1, 2}, D.E. Dasheev¹, A.S. Milonov¹, B.D. Danzhiev¹, Z.M. Khaltarov¹, V.M. Khaltanova^{1, 2}
¹*Institute of Physical Materials Science, Siberian Branch of the Russian Academy of Sciences, Ulan-Ude, Russia*
²*Buryat State University, Ulan-Ude, Russia*
THERMODYNAMIC MODELING OF PHASE EQUILIBRIUM IN SYSTEMS Me-B-C-O (Me = Ti, Fe, V, W) IN VACUUM AND SYNTHESIS OF BORIDES/CARBIDES LAYERS UNDER INFLUENCE INTENSIVE ELECTRON BEAMS

Conference for young scientists

June, 24 (Wednesday)

14.20-18.20 Oral sessions

- 14.20-14.35** A.A. Zhabina¹, S.P. Verevkin², E.L. Krasnykh¹
¹*Technology of Organic and Petrochemical Synthesis Department, Samara State Technical University, Samara, Russia*
²*Department of Physical Chemistry, University of Rostock, Rostock, Germany*
ENTHALPIES OF VAPORIZATION AND VAPOR PRESSURES OF GLYCEPOL ETHERS
- 14.35-14.50** V.I. Pet'kov¹, E.A. Asabina¹, A.V. Markin¹, N.N. Smirnova¹, V.N. Loshkarev²
¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*All-Russian Research Institute of Experimental Physics, Sarov, Nizhni Novgorod region*
THERMOPHYSICAL PROPERTIES (HEAT CAPACITY, THERMAL EXPANSION, THERMAL CONDUCTIVITY) OF THE FRAMEWORK STRUCTURE PHOSPHATES
- 14.50-15.05** V.P. Zlomanov¹, R.N. Nenashev², A.V. Tyurin³, V.I. Levchenkova¹, K.S. Gavrichev³
¹*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²*Moscow State Institute of Radio Engineering, Electronics and Automation, Moscow, Russia*
³*Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia*
THERMODYNAMIC PROPERTIES AND THERMAL DECOMPOSITION OF VANADYL ACETYLACETONATE
- 15.05-15.20** E.S. Vikulova¹, K.V. Zherikova¹, K.S. Shmyrev², P.A. Stabnikov¹, L.N. Zelenina^{1,2}, S.V. Sysoev¹, S.V. Trubin¹, P.P. Semyannikov¹, N.B. Morozova¹, I.K. Igumenov¹
¹*Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia*
²*Novosibirsk State University, Novosibirsk, Russia*
THERMAL INVESTIGATION OF VOLATILE MAGNESIUM β -DIKETONATE DERIVATIVES
- 15.20-15.35** M.V. Shuraev, N.Yu. Krymkin, O.A. Khanina
Chemical Technology Department, Samara State Technical University, Samara, Russia
THERMODYNAMIC FUNDAMENTALS OF BRANCHED ALKENES OLIGOMERIZATION
- 15.35-15.50** S.V. Vostrikov, I.A. Nesterov, T.N. Nesterova, S.A. Spiridonov
Department of Chemical Technology, Samara State Technical University, Samara, Russia
THE CRITICAL TEMPERATURE OF BINARY MIXTURES. THEORY AND PRACTICE
- 15.50-16.05** K.M. Falin, R.V. Starykh, S.I. Sinyova
Department of Metallurgy, Saint Petersburg State Polytechnic University, Saint Petersburg, Russia
RESEARCH OF POLYMER DESTRUCTION FEATURES USING OF THERMAL ANALYSIS METHODS
- 16.05-16.20** L.G. Chumilina, L.T. Denisova, B.M. Denisov
Department of Physical and Inorganic Chemistry, Siberian Federal University, Krasnoyarsk, Russia
HIGH-TEMPERATURE HEAT CAPACITY OF HEAVY RARE EARTH ORTHOVANADATES RVO_4
- 16.20-16.35** T.A. Starikova, O.A. Sharunova, S.S. Lusova, Yu.E. Zevatskiy
Saint Petersburg State University of Technology and Design, Saint Petersburg, Russia
DETERMINATION OF 5-SUBSTITUTED-1H-TETRAZOLES DISSOCIATION CONSTANTS BY NON-BUFFERED SPECTROPHOTOMETRIC METHOD
- 16.35-16.50** A.G. Bykov, R.R. Fasykov, B.A. Noskov
Chemistry Institute, Saint Petersburg State University, Saint Petersburg, Russia
DYNAMIC SURFACE PROPERTIES OF SPREAD MONOLAYERS OF POLYSTYRENE MICROPARTICLES
- 16.50-17.05** I.V. Korchemkin, V.I. Pet'kov, N.N. Smirnova, A.V. Markin
Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia

- 17.05-17.20** **THERMODYNAMIC PROPERTIES OF SOME CESIUM CONTAINING PHOSPHATES OF TRIDYMITE STRUCTURE TYPE**
M.O. Ilatovskaya, R.V. Sarykh, S.I. Sinyova
Saint Petersburg State Polytechnical University, Saint Petersburg, Russia
- 17.20-17.35** **CONSTRUCTION OF THE TERNARY Fe–Co–S SYSTEM**
M.A. Shchurova, O.V. Andreev
Chemistry Institute, Chair of Inorganic and Physical Chemistry, Tyumen State University, Tyumen, Russia
- CREATING THE PHASE DIAGRAMM OF Bi₂Se₃–Sm₂Se₃ SYSTEM. THERMODYNAMICS OF PHASE TRANSFORMATION**

POSTER SESSIONS

P-I POSTERS - June, 23 (Tuesday)

Section 1

- P-1-1** P.P. Fedorov, S.V. Kuznetsov, M.N. Mayakova, Yu.A. Rozhnova, E.V. Chernova
A.M. Prokhorov General Physics Institute, Russian Academy of Sciences
LOW-TEMPERATURE SYNTHESIS – A ROAD FOR THE REALIZATION OF NON-EQUILIBRIUM STATES IN FLUORIDE SYSTEMS
- P-1-2** P.V. Chirkov, A.A. Mirzoev, D.A. Mirzaev
General and Theoretical Physics Department, South Ural State University, Chelyabinsk, Russia
THERMODYNAMICS OF IRON CARBON MARTENSITE FROM MOLECULAR DYNAMICS
- P-1-3** A.N. Kolesnikov, A.D. Bulanov, V.V. Balabanov
G.G. Devyatikh Institute of Chemistry of High-Purity Substances RAS, Nizhni Novgorod, Russia
SELECTION OF PARAMETERS OF THE POTENTIAL OF INTERMOLECULAR INTERACTION FOR SOLUTIONS OF SILICON FLUOROCHLORIDES IN SiCl₄
- P-1-4** A.A. Dyshin¹, O.V. Eliseeva¹, N.A. Fomina^{2,3}, G.V. Bondarenko⁴, A.M. Kolker¹, M.G. Kiselev¹
¹ *Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia*
² *Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*
³ *Ivanovo State University, Ivanovo, Russia*
⁴ *Institute of Experimental Mineralogy of the Russian Academy of Sciences, Chernogolovka, Moscow region, Russia*
DISPERSION OF SINGLE-WALLED CARBON NANOTUBES IN ETANOL–CHOLIC ACID MIXTURES: MOLECULAR DYNAMICS SIMULATION AND EXPERIMENT
- P-1-5** T.V. Kulikova, A.V. Maiorova, K.Yu. Shunyaev, V.A. Bykov
Institute of Metallurgy, Ural Branch, Russian Academy of Sciences, Yekaterinburg, Russia
INVESTIGATION OF THERMODYNAMIC PROPERTIES OF INTERMETALLIC COMPOUNDS OF Cu–Zr SYSTEM
- P-1-6** M.N. Magomedov
Institute for Geothermal Research of Daghestan Scientific Centre, Russian Academy of Sciences, Makhachkala, Russia
ON THERMODYNAMIC PROPERTIES OF NANOCRYSTAL OF SIMPLE MATTER
- P-1-7** P.Y. Makarov, G.F. Voronin, I.B. Kutsenok
Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
ESTIMATION OF THERMODYNAMIC PROPERTIES OF CRYSTALLINE ZEOLITES
- P-1-8** M.E. Manyakina, A.V. Knyazev, A.V. Zhidkov
Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
THE DEVELOPMENT OF THERMOPHYSICAL DATABASE
- P-1-9** O.V. Mikhailov
Analytical Chemistry, Certification and Quality Management Department, Kazan National Research Technological University, Kazan, Russia
THE CITATION OF RESEARCHERS AND SCIENTIFIC JOURNALS IN THE FIELD OF THE CHEMICAL THERMODYNAMICS

- P-1-10** A.E. Musikhin, V.N. Naumov, M.A. Bespyatov
Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
HEAT CAPACITY AT HIGH TEMPERATURES FROM THE LOW TEMPERATURE CALORIMETRY DATA
- P-1-11** A.V. Selitrennikov¹, D.V. Samoylov¹, Yu.E. Zevatskiy^{1,2}
¹Novbytkhim corp., V.O., Saint Petersburg, Russia
²Saint Petersburg State University of Technology and Design, Saint Petersburg, Russia
STUDY OF ACID-BASE PROPERTIES OF WEAK ELECTROLYTES BY CONDUCTOMETRIC TITRATION
- P-1-12** V.P. Vorob'eva¹, V.I. Lutsyk^{1,2}, S.Ya. Shodorova¹
¹Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia
²Buryat State University, Ulan-Ude, Russia
PARTICIPATION OF LAVES' PHASES IN EUTECTIC-PERITECTIC TRANSFORMATIONS IN Zr-Cr-{V, W, Mo} SYSTEMS
- P-1-13** A.E. Zelenaya¹, V.I. Lutsyk^{1,2}, A.M. Zyryanov¹
¹Institute of Physical Materials Science SB RAS, Ulan-Ude, Russia
²Buryat State University, Ulan-Ude, Russia
CALCULATION METHODS OF INVARIANT POINTS OF T-x-y-z DIAGRAMS AND THE GRAPHS CORRECTION OF MULTICOMPONENT SYSTEMS

Section 2

- P-2-1** P.D. Aphonin¹, N.N. Smirnova¹, A.V. Markin¹, Z.B. Shifrina², N.V. Kuchkina², E.S. Serkova²
¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Sciences, Moscow, Russia
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- P-2-2** P.D. Aphonin¹, N.N. Smirnova¹, A.V. Markin¹, L.Ya. Tsvetkova¹, O.N. Golodkov², G.P. Belov²
¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²Institute of Problems of Chemical Physics of the Russian Academy of Sciences, Moscow region, Russia
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¹G.A. Razuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, Nizhni Novgorod, Russia
²Chemistry Research Institute, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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¹G.A. Razuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, Nizhni Novgorod, Russia
²Chemistry Research Institute, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
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Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
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Institute of Problems of Complex Development of Mineral Resources, Karaganda, Kazakhstan
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¹*Institute of Problems of Complex Development of Mineral Resources, Karaganda, Kazakhstan*
²*Chemistry Department, Academician E.A. Buketov Karaganda State University, Karaganda, Kazakhstan*
³*Physics Department, Academician E.A. Buketov Karaganda State University, Karaganda, Kazakhstan*
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia
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Chemistry Faculty and Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus
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¹*Kurnakov Institute of General and Inorganic Chemistry of the Russian Academy of Sciences, Moscow, Russia*
²*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
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- P-2-15** T.M. Burkhanova¹, A.V. Solovyeva²
¹*Chemistry Institute, Tyumen State University, Tyumen, Russia*
²*Laboratory of NMR and X-ray Department, Physics Department of the reservoir «KERN» JSC «Siberian Research Institute of Petroleum Industry», Tyumen, Russia*
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Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
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Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
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Institute of Non Ferrous Metals and Materials Science, Siberian Federal University, Krasnoyarsk, Russia
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¹Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
²Samara State Technical University, Samara, Russia
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Department of Physical Chemistry, Kazan Federal University, Kazan, Russia
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Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
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¹Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
²Semenov Institute of Chemical Physics, Russian Academy of Sciences, Moscow, Russia
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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¹Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Moscow, Russia
²Institute of Geology of Ore Deposits, Petrography, Mineralogy and Geochemistry, Russian Academy of Sciences, Moscow, Russia
³Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
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Joint Institute for High Temperatures, Russian Academy of Sciences, Moscow, Russia
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¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²Saint Petersburg State University, Saint Petersburg, Russia
³Institute of High Energy Physics, Moscow Region, Russia
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¹Frank Laboratory of Neutron Physics, JINR, Russia
²Faculty of Chemistry, Jagiellonian University, Kraków, Poland
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Institute of Non-Ferrous Metals and Materials Science, Siberian Federal University, Krasnoyarsk, Russia
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¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Saint Petersburg State University, Saint Petersburg, Russia*
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¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland*
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Physical and Colloid Chemistry Department, Kazan National Research Technological University, Kazan, Russia
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¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Department of Chemical Thermodynamics and Kinetics, Saint Petersburg State University, Saint Petersburg, Russia*
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¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Saint Petersburg State University, Saint Petersburg, Russia*
³*National Research Southern Ural State University, Chelyabinsk, Russia*
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- P-2-37** M. Mączka¹, A. Sieradzki², A. Ciupa¹
¹*Institute of Low Temperature and Structure Research, Polish Academy of Sciences, Wroclaw, Poland*
²*Faculty of Fundamental Problems of Technology, Wroclaw University of Technology, Wroclaw, Poland*
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Department of Physical Chemistry of Drugs, G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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- P-2-42** R.N. Nagrimanov¹, M.A. Varfolomeev¹, B.N. Solomonov¹, S.P. Verevkin²
¹*Department of Physical Chemistry, Kazan (Volga Region) Federal University, Kazan, Russia*
²*Department of Physical Chemistry, University of Rostock, Rostock, Germany*
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- P-2-43** R.N. Nagrimanov¹, M.A. Varfolomeev¹, B.N. Solomonov¹, S.P. Verevkin²
¹*Department of Physical Chemistry, Kazan (Volga Region) Federal University, Kazan, Russia*
²*Department of Physical Chemistry, University of Rostock, Rostock, Germany*
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Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia
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- P-2-45** E.L. Osina¹, S.B. Osin²
¹*Joint Institute for High Temperatures, Russian Academy of Sciences, Moscow, Russia*
²*Department of Chemistry, Lomonosov Moscow State University, Moscow, Russia*
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¹*Samara State Technical University, Samara, Russia*
²*Department of Physical Chemistry, University of Rostock, Rostock, Germany*
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¹*Institute of Chemistry and Chemical Technology, Siberian Branch of the Russian Academy of Sciences, Krasnoyarsk, Russia*
²*Siberian Federal University, Krasnoyarsk, Russia*
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Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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- P-2-49** M.A. Ryumin¹, V.M. Gurevich², A.V. Tyurin¹, K.S. Gavrichev¹
¹*Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia*
²*Vernadsky Institute of Geochemistry and Analytical Chemistry, Russian Academy of Sciences, Moscow, Russia*
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¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
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- P-2-51** A.M. Sankovich¹, A.V. Markin², N.N. Smirnova², I.A. Zvereva¹
¹*Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia*
²*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
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- P-2-52** I.A. Savushkin¹, A. Alahmad^{1,2}, M.E. Manyakina¹, A.V. Knyazev¹, N.N. Smirnova¹, A.N. Shushunov¹
¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Atomic Energy Commission of Syria (AECS), Damascus, Syria*
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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- P-2-54** V.I. Pet'kov, A.S. Shipilov, A.V. Markin, N N. Smirnova
Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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- P-2-55** S.S. Sologubov¹, A.V. Markin¹, N.N. Smirnova¹, T.A. Bykova¹, A.M. Muzafarov²
¹*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Enikolopov Institute of Synthetic Polymeric Materials, Russian Academy of Sciences, Moscow, Russia*
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- P-2-56** E.N. Stepurko, Y.U. Paulechka, A.V. Blokhin
Chemistry Faculty and Research Institute for Physical Chemical Problems, Belarusian State University, Minsk, Belarus
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Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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- P-2-58** S.V. Telegin^{1,2}, S. Naumov², O. Reznitskih³, D. Tsvetkov¹
¹*Institute of Natural Sciences, Ural Federal University, Yekaterinburg, Russia*
²*M.N. Miheev Institute of Metal Physics, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
³*Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
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- P-2-59** L.A. Tiflova, A.S. Monayenkova, M.L. Kovba
Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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- P-2-60** L.Ya. Tsvetkova¹, N.N. Smirnova¹, A.V. Markin¹, Yu.A. Plytsova¹, Z.B. Shifrina², N.V. Kuchkina², E.Yu. Yuzik-Klimova²
¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²A.N. Nesmeyanov Institute of Organoelement Compounds, Russian Academy of Science, Moscow, Russia
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- P-2-61** E.Yu. Tyunina¹, V.G. Badelin¹, N.G. Manin¹, V.V. Tyunina²
¹G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia
²Physics Department, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia
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- P-2-62** A.G. Tyurin¹, M.V. Vaseha², A.I. Biryukov¹
¹Chemistry Department, Chelyabinsk State University, Chelyabinsk, Russia
²Murmansk State Technical University, Murmansk, Russia
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- P-2-63** V.A. Verkhovyykh¹, O.S. Kalistratova¹, A.V. Markin¹, I.A. Letyanina², A.I. Grishina¹, A.V. Gushchin¹
¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²Saint Petersburg State University, Saint Petersburg, Russia
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- P-2-64** E.S. Vikulova¹, I.Yu. Ilyin¹, L.N. Zelenina^{1,2}, A.E. Turgambaeva¹, S.V. Sysoev¹, N.B. Morozova¹
¹Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
²Novosibirsk State University, Novosibirsk, Russia
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- P-2-65** O.G. Zamyshlyayeva¹, G.K. Fukin², S.S. Sologubov¹
¹Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
²G.A. Razuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, Nizhni Novgorod, Russia
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¹Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
²Novosibirsk State University, Novosibirsk, Russia
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¹Nikolaev Institute of Inorganic Chemistry, Siberian Branch of the Russian Academy of Sciences, Novosibirsk, Russia
²Novosibirsk State University, Novosibirsk, Russia
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*Department of Chemistry and Technology of Basic Organic Synthesis,
Lomonosov Moscow State University of Fine Chemical Technology, Moscow, Russia*
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Department of Physical Chemistry, Kazan (Volga Region) Federal University, Kazan, Russia
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- P-3-3** M.M. Asadov¹, A.N. Azizova¹, S.R. Imamverdieva²
¹*Institute of Catalysis and Inorganic Chemistry, Azerbaijan National Academy of Sciences, Baku, Azerbaijan*
²*Institute of Control Systems, Azerbaijan National Academy of Sciences, Baku, Azerbaijan*
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- P-3-4** V.G. Badelin¹, I.N. Mezhevoi¹, S.V. Kamkina²
¹*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Science, Ivanovo, Russia*
²*Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*
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- P-3-5** S. Baluja, K. Bhesaniya and P. Ramavat
*Physical Chemistry Laboratory, Department of Chemistry,
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Lomonosov Moscow State University of Fine Chemical Technologies, Moscow, Russia
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Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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- P-3-8** E.S. Chibunova¹, M.A. Brusnikina², T.V. Volkova¹, I.V. Terekhova¹
¹*G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Science, Ivanovo, Russia*
²*Department of Chemistry and Biology, Ivanovo State University, Ivanovo, Russia*
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- P-3-9** A.G. Davydov¹, K.G. Peshkina², N.K. Tkachev²
¹*Ural Federal University named after the first President of Russia B.N. Yeltsin, Yekaterinburg, Russia*
³*Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
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G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia
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- P-3-11** I. Efremova¹, Z.A. Kydriashova^{1,2}, L.A. Nosikova^{1,2}, M.R. Kiselev²
¹*Lomonosov Moscow State University of Fine Chemical Technology, Moscow, Russia*
²*Institute of Physical Chemistry and Electrochemistry, Russian Academy of Sciences, Moscow, Russia*
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- P-3-12** V.B. Fedoseev^{1,2}
¹*Department of Physics, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
²*Razuvaev Institute of Organometallic Chemistry, Russian Academy of Sciences, Nizhni Novgorod, Russia*
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- P-3-13** A.V. Frolkova, A.A. Akishina, Ye. A. Illarionova, A.K. Frolkova
Department of Chemistry and Technology of Basic Organic Synthesis, Lomonosov Moscow State University of Fine Chemical Technology, Moscow, Russia
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¹*Research Institute of Thermodynamics and Kinetics of Chemical Processes, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia*
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¹*Ural Technical Institute of Telecommunications and Informatics, Yekaterinburg, Russia*
²*Ural State Pedagogical University, Yekaterinburg, Russia*
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¹*Ural Technical Institute of Telecommunications and Informatics, Yekaterinburg, Russia*
²*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
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¹*D.I. Mendeleev Institute for Metrology, Saint Petersburg, Russia*
²*N.N. Semenov Institute of Chemical Physics, Russian Academy of Science, Moscow, Russia*
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Department of Physical Chemistry, Kazan Federal University, Kazan, Russia
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- P-3-25** D.A. Kosova, A.A. Maximova, A.V. Dzuban, A.L. Voskov, I.A. Uspenskaya
Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
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¹*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²*Department of Materials Science, Lomonosov Moscow State University, Russia*
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Chemistry Department, Lomonosov Moscow State University, Russia
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- P-3-29** I.A. Letyanina^{1,2}, N.S. Tsvetov¹, I.A. Zvereva¹, A.M. Toikka¹
¹*Department of Chemical Thermodynamics and Kinetics, Saint Petersburg State University, Saint Petersburg, Russia*
²*Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia*
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¹*Kurnakov Institute of General and Inorganic Chemistry, Russian Academy of Sciences, Moscow, Russia*
²*Kotel'nikov Institute of Radioengineering and Electronics, Russian Academy of Sciences, Moscow region, Russia*
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- P-3-33** A.I. Maksimov, N.A. Kovalenko
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- P-3-34** K.O. Manylova¹, L.G. Chekanova¹, P.T. Pavlov²
¹*Institute of Technical Chemistry, Ural Branch of the Russian Academy of Sciences, Perm, Russia*
²*Perm State National Research University, Perm, Russia*
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- P-3-35** A.E. Moiseev¹, A.V. Dzuban^{1,2}, A.S. Gordeeva², N.A. Kovalenko¹
¹*Chemistry Department, Lomonosov Moscow State University, Moscow, Russia*
²*Department of Materials Science, Lomonosov Moscow State University, Moscow, Russia*
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- P-3-36** S.N. Mustafaeva¹, M.M. Asadov², A.N. Mammadov²
¹*Institute of Physics, Azerbaijan National Academy of Sciences, Baku, Azerbaijan*
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- P-3-38** A.M. Nepomiluev¹, O.G. Reznitskikh², O.V. Nechaev²
¹*The Ural Scientific Research Institute of Metrology FGUP "UNIIM", Yekaterinburg, Russia*
²*Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
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Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
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Saint Petersburg State University, Saint Petersburg, Russia
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- P-3-41** K.G. Peshkina¹, N.K. Tkachev¹, D.S. Peshkin²
¹*Institute of High-Temperature Electrochemistry, Ural Branch of the Russian Academy of Sciences, Yekaterinburg, Russia*
²*Ural Federal University, Yekaterinburg, Russia*
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- P-3-42** I.T. Rakipov¹, M.A. Varfolomeev¹, W.E. Acree²
¹*Department of Physical Chemistry, Kazan (Volga region) Federal University, Kazan, Russia*
²*Department of Chemistry, University of North Texas, Denton, USA*
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Department of Physical Chemistry, Kazan (Volga region) Federal University, Kazan, Russia
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- P-3-45** V.E. Sidorov¹, I. Lishchynskyy², I. Kaban³
¹*Ural State Pedagogical University, Yekaterinburg, Russia*
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³*Institute for Complex Materials, IFW Dresden, Dresden, Germany*
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¹*Ural State Pedagogical University, Yekaterinburg, Russia*
²*Institute of Physics, Slovak Academy of Science, Slovakia*
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¹Department of Inorganic Chemistry, Ivanovo State University of Chemistry and Technology
²Department of Technology of Fine Organic Synthesis, Ivanovo State University of Chemistry and Technology
³Department of Organic Chemistry, Ivanovo State University of Chemistry and Technology, Ivanovo, Russia
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Department of Physical Chemistry, Lomonosov Moscow State University of Fine Chemical Technologies, Moscow, Russia
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- P-3-53** V.I. Zhuchkov, A.K. Frolova
Department of Chemistry and Technology of Basic Organic Synthesis, Lomonosov Moscow State University of Fine Chemical Technology, Moscow, Russia
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G.A. Krestov Institute of Solution Chemistry, Russian Academy of Sciences, Ivanovo, Russia
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- P-4-2** D.V. Batov, O.A. Antonova, A.V. Kustov, N.L. Smirnova
G.A. Krestov Institute of Solution Chemistry of the Russian Academy of Sciences, Ivanovo, Russia
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Voronezh State University of Engineering Technologies, Voronezh, Russia
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- P-4-4** M.A. Evdokimova^{1,2}, L.A. Onuchak¹, Yu.G. Kuraeva¹
¹Samara State University, Samara, Russia
²Samara Center for Theoretical and Material Science, Samara, Russia
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Department of Physical Chemistry and Chromatography, Samara State University, Samara, Russia
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- P-4-6** A.S. Kur'yanova, A.A. Gavrilova, S.M. Pestov
Moscow University of Fine Chemical Technologies, Moscow, Russia
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- P-4-7** E.G. Mitina¹, N.S. Filimonov¹, R.V. Shafigulin¹, A.V. Bulanov¹, I.V. Shishkovskiy², Y.G. Morozov³
¹ *Samara State University, Samara, Russia*
² *Samara Branch of the Lebedev Physical Institute, Russian Academy of Sciences, Samara, Russia*
³ *Institute of Structural Macrokinetics and Materials Science of the Russian Academy of Sciences, Chernogolovka, Moscow Region, Russia*
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Physical Faculty, Saint Petersburg State University, Saint Petersburg, Russia
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- P-4-9** N.M. Selivanova, Y.G. Galyametdinov
Physical and Colloid Chemistry Department, Kazan National Research Technological University, Kazan, Russia
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Samara State University, Samara, Russia
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- P-4-11** N.A. Volkov, A.K. Shchekin
Department of Statistical Physics, Faculty of Physics, Saint Petersburg State University, Saint Petersburg, Russia
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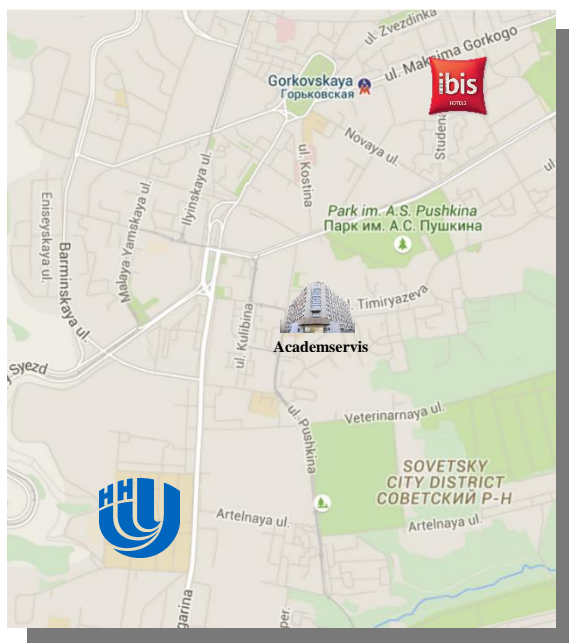
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- P-5-1** A.A. Burovikhina, M.V. Chislov, I.A. Rodionov, I.A. Zvereva
Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
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- P-5-2** F.G. Granados Martinez¹, L. Domratcheva Lvova^{1,2}, N. Flores Ramirez², U. Camacho Martinez¹, L. Garcia Gonzalez³
¹ *Faculty of Engineering Mechanic, Michoacan University of Saint Nicholas of Hidalgo, Ciudad Universitaria, Gral. Francisco J. Múgica s/n, Morelia, Mich., Mexico*
² *Faculty in Engineering and Wood Technology, Michoacan University of Saint Nicholas of Hidalgo, Ciudad Universitaria, Gral. Francisco J. Múgica s/n, Morelia, Mich., Mexico*
Research Center for Micro and Nanotechnology, University of Veracruz, Mexico
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- P-5-3** L. Domratcheva Lvova¹, F.G. Granados Martinez¹, A. Gómez Sanchez¹, E. Huipé Nava¹, Ma. de L. Mondragon Sanchez²
¹ *Michoacan University of Saint Nicholas de Hidalgo, Ed. "D", Ciudad Universitaria, Gral. Francisco J. Múgica s/n, Morelia, Michoacan, Mexico*
² *Technologic Institute of Morelia, Morelia, Michoacan, Mexico*
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- P-5-4** A.M. Elokhov¹, A.E. Lesnov¹, O.S. Kydryashova²
¹ *Institute of Technical Chemistry, Ural Branch of the Russian Academy of Sciences, Perm, Russia*
² *Institute of Natural Science, Perm State University, Perm, Russia*
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- P-5-5** V.N. Fomin^{1,3}, S.K. Aldabergenova^{1,3}, D.B. Gogol^{2,3}, P.A. Batkov¹
¹Chemistry Department, Academician E.A. Buketov Karaganda State University, Karaganda, Kazakhstan
²Institute of Problems of Complex Development of Mineral Resources, Karaganda, Kazakhstan
³Public Association "Grazhdane Kazakhstan", Karaganda, Kazakhstan
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- P-5-6** T. Kovářik, P. Franče, J. Šesták, J. Kadlec, L. Kullová, M. Pola, D. Rieger
 University of West Bohemia, New Technologies - Research Centre, Pilsen, Czech Republic
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- P-5-7** N.Yu. Krymkin, V.A. Shakun
 Chemical Technology Department, Samara State Technical University, Samara, Russia
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- P-5-8** S.V. Kurdakova, N.A. Kovalenko, T.V. Zapolskih, M.N. Mamontov, I.A. Uspenskaya
 Chemistry Department, Lomonosov Moscow State University, Moscow, Russia
COMPLEXATION OF RARE EARTH NITRATES WITH DI-(2-ETHYLHEXYL)-PHOSPHORIC ACID IN o-XYLENE
- P-5-9** M.A. Varfolomeev¹, A.N. Grachev², T.R. Musin¹, V.N. Emel'yanenko^{1,3}, A.V. Gerasimov¹
¹Department of Physical Chemistry, Kazan (Volga region) Federal University, Kazan, Russia
²Kazan National Research Technological University, Kazan, Russia
³Department of Physical Chemistry, University of Rostock, Rostock, Germany
THERMAL ANALYSIS AND COMBUSTION CALORIMETRY OF WOOD LIGNIN AND ITS PYROLYSIS PRODUCTS
- P-5-10** A.D. Plekhovich¹, V.V. Dorofeev¹, A.M. Kutynin^{1,2}
¹G.G. Devyatikh Institute of Chemistry of High-Purity Substances of the Russian Academy of Sciences, Nizhni Novgorod, Russia
²Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
THERMODYNAMIC AND KINETIC CHARACTERISTICS OF COMBINED PROCESS OF CRYSTALLIZATION-MELTING OF TUNGSTATE-TELLURITE GLASS USING DSC-DATA
- P-5-11** C. Held¹, I.V. Prikhodko², A.Yu. Sazonova³, S.P. Verevkin⁴
¹Technical University of Dortmund, Dortmund, Germany
²Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
³Lomonosov Moscow University of Fine Chemical Technology, Moscow, Russia
⁴University of Rostock, Rostock, Germany
PC-SAFT PREDICTION OF LIMITING ACTIVITY COEFFICIENTS OF VARIOUS SOLUTES IN DEEP EUTECTIC SOLVENTS, IONIC LIQUIDS, AND ORGANIC COMPONENTS
- P-5-12** E.E. Ramazanov¹, M.M. Asadov², E.N. Aliev¹
¹Scientific-Research Institute Geotechnological Problems of Oil, Gas and Chemistry, Baku, Azerbaijan
²Institute of Catalysis and Inorganic Chemistry, Azerbaijan National Academy of Sciences, Baku, Azerbaijan
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- P-5-13** E.V. Salomatina, A.V. Markin, A.V. Knyazev, S.S. Sologubov, L.A. Smirnova
 Chemistry Department, Lobachevsky State University of Nizhni Novgorod, Nizhni Novgorod, Russia
AU AND AG NANOPARTICLES INFLUENCE ON TEMPERATURE TRANSITIONS IN POLY(TITANIUM OXIDE - HYDROXYETHYLMETHACRYLATE) COPOLYMERS
- P-5-14** A.Yu. Sazonova¹, D.H. Zaitsau², S.P. Verevkin², C. Held³, I.V. Prikhodko⁴
¹Lomonosov Moscow University of Fine Chemical Technology, Moscow, Russia
²University of Rostock, Rostock, Germany
³Technical University of Dortmund, Dortmund, Germany
⁴Institute of Chemistry, Saint Petersburg State University, Saint Petersburg, Russia
DEEP EUTECTIC SOLVENTS: DO THEY HAVE CAPACITY IN SEPARATION PROCESSES?

- P-5-15** J. Šesták, P. Holba
New Technologies - Research Centre of the Westbohemian Region, University of West Bohemia in Pilsen (NTC-ZČU), Plzeň, Czech republic
DOUBTS ON KISSINGER'S METHOD OF KINETIC EVALUATION BASED ON SEVERAL CONCEPTUAL MODELS SHOWING THE DIFFERENCE BETWEEN THE MAXIMUM OF REACTION RATE AND EXTREME OF DTA PEAK
- P-5-16** J. Šesták, P. Holba, M. Holecek, T. Kovářik,
NTC - New Technology; Research Centre in the Westbohemian Region, West Bohemian University, Pilsen, Czech Republic
CENTEM: THERMONANALYTICAL CENTER AT THE CZECH WEST BOHEMIAN UNIVERSITY AND ITS INTERNATIONAL COOPERATIVE PROGRAM
- P-5-17** V.A. Shakun, O.A. Mazurin, S.V. Vostrikov, O.V. Repina
Department of Chemical Technology, Samara State Technical University, Samara, Russia
ISOPROPYLBENZENES. THEORY AND PRACTICE OF THE ALKYLATION OF BENZENE AND METHYLBENZENE WITH PROPYLENE
- P-5-18** V.P. Sopov, A.V. Usherov-Marshak
Department of Physical-Chemical Mechanics and Technology of building materials and products, Kharkov National University of Civil Engineering and Architecture? Kharkov, Ukraine
THERMODYNAMIC ASPECTS OF AGING GYPSUM BINDERS
- P-5-19** V.R. Flid¹, S.M. Pestov¹, A.V. Sulimov², A.V. Ovcharova²
¹*Lomonosov Moscow University of Fine Chemical Technologies, Moscow, Russia*
²*Nizhni Novgorod State Technical University, Nizhni Novgorod, Russia*
V-L-EQUILIBRIA IN THE SYSTEM OF GLYCIDOL SYNTHESIS PRODUCTS
- P-5-20** V.V. Sursyakova¹, G.V. Burmakina^{1,2}, A.I. Rubaylo^{1,2}
¹*Institute of Chemistry and Chemical Technology, Siberian Branch of the Russian Academy of Sciences, Krasnoyarsk, Russia*
²*Siberian Federal University, Krasnoyarsk, Russia*
POWER AND LIMITATION OF CHANGING THE ELECTROPHORETIC MOBILITIES OF ANALYTES BY MEANS OF COMPLEXATION IN CAPILLARY ELECTROPHORESIS
- P-5-21** N.M. Tanklevskaya¹, G.G. Mikhailov¹, A.N. Maznichevskiy¹, L.A. Smirnov²
¹*Physical Chemistry Department, South Ural State University, Chelyabinsk, Russia*
²*Ural Institute of Ferrous Metals, Yekaterinburg, Russia*
THERMODYNAMICS OF COMPONENTS INTERACTION IN CRYSTALLIZING LOW-ALLOY BORON STEEL MELT
- P-5-22** T.D. Utkina, M.V. Chislov, I.A. Zvereva
Department of chemical thermodynamics and kinetics, Saint Petersburg State University, Saint Petersburg, Russia
COMPLEX STUDY OF HYDRATION AND PROTONATION PROCESSES OF LAYERED TITANATES A₂LN₂TI₃O₁₀ BY METHODS OF THERMAL ANALYSIS
- P-5-23** M.A. Varfolomeev¹, R.N. Nagrimanov¹, A.A. Khachatryan¹, I.T. Rakipov¹, M.V. Kok²
¹*Department of Physical Chemistry, Kazan Federal University, Kazan, Russia*
²*Department of Petroleum and Natural Gas Engineering, Middle East Technical University, Ankara, Turkey*
THERMAL ANALYSIS AND CALORIMETRY STUDY ON COMBUSTION AND PYROLYSIS OF TATARSTAN CRUDE OILS
- P-5-24** V.F. Stroganov, E.V. Sagadeev, B.R. Vakhitov
Chemistry & Ecology Department, Kazan State University of Architecture and Engineering, Kazan, Tatarstan, Russia
KINETIC UNIT FOR TESTING CONSTRUCTION MATERIALS BIOPROOFNESS IN MODEL MEDIUMS
- P-5-25** S.S. Zakharov¹, V.A. Belikov², T.V. Chelyuskina¹, E.N. Gluhan², L.V. Kaabak²
¹*Lomonosov Moscow University of Fine Chemical Technologies, Moscow, Russia*
²*Federal State Unitary Enterprise "State Research Institute of Organic Chemistry and Technology", Moscow, Russia*
THERMODYNAMIC ANALYSIS OF CATALYST INFLUENCE ON THE 1,2,4,5-TETRAMETHYLBENZENE OXIDATION PROCESS

Maps



Ibis-UNN

Bus: 1, 68

Trolleybus: 31

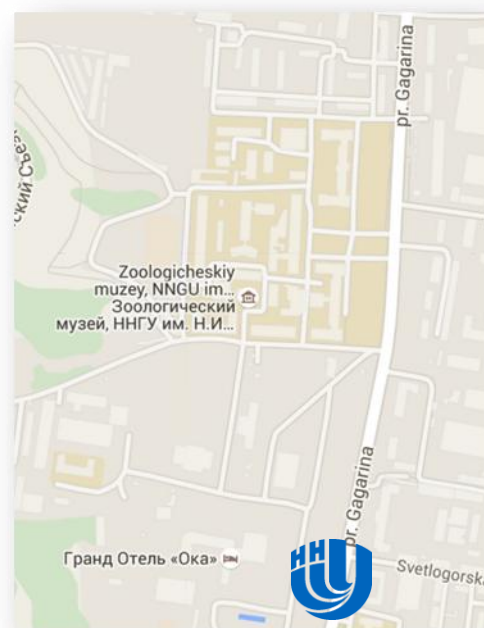
Route minibus: 47, 68, 97

Walking time: 30-40 minutes

Academservis-UNN

Walking time: 10-15 minutes

Walking time: 5-10 minutes



Campus Map



1 Building 1

2 Building 2

3 UNN cafeteria