ISIF-2008

Vladivostok, 01-06 September 2008

RUSSIAN ACADEMY OF SCIENCES
FAR-EASTERN BRANCH
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Third International Siberian Workshop

Advanced Inorganic Fluorides

"I N T E R S I B F L U O R I N E – 2008"

01-06 September 2008, Vladivostok, Russia

Circular № 2

"INTERSIBFLUORINE-2008" Third International Siberian Workshop on Advanced Inorganic Fluorides ISIF-2008

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Prof. A.N. Zhiganov, Prof. A.S. Buinovsky — Seversk State Technological University, Russia

ISIF-2008 Organization

All correspondence on ISIF-2008 for attendance, sponsorship, and proposals for contributions (with title, authors of reports) should be addressed to:

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and copy to:
Secretary General of ISIF-2008: Prof. Valentin Mitkin
e-mail **mit@che.nsk.su**

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Working Languages of ISIF-2008 - English

Additional information on ISIF-2008 will be available after May 31, 2008
in web-sites of IC FEBRAS, NIIC SB RAS and TPU

http://www.che.nsk.su/events
and
http://chemi.ich.dvo.ru/isif/
and
http://www.tpu.ru

Bienvenue to ISIF-2008

Dear Colleague, it is our pleasure to invite you to take part in the Third International Siberian Workshop on Advanced Inorganic Fluorides "INTERSIBFLUORINE-2008" which will be held at Vladivostok, Russia.

Inorganic fluorinated materials are currently produced on an industrial scale and their applications are rapidly extending to multiple fields of everyday life. The conversion of former military applications of fluorine and fluorides into peaceful targets has opened new horizons, and new schemes of collaboration have appeared between former USSR countries and Western countries in the field of military plants conversion. Numerous research fields are involved into the process beside the inorganic fluorine chemistry: intensive basic studies and applications of energy conversion processes, electronics, opto-electronics, protection of metals, ceramics, textiles, wood, and environment protection by waste management.

The majority of the Russian fluorine industrial enterprises are located in the Siberian part of Russian Federation and this was one of the reasons for choosing the Novosibirsk Scientific Centre (the Novosibirsk Academy Town) as the location of the First International Siberian Workshop ISIF-2003 (02-05 April, 2003). The Second International Siberian Workshop on Advanced Fluorides ISIF-2006 has been held on 11-16 June 2006 in Tomsk Polytechnic University, which is one of the oldest educational and scientific centres in Russia.

In view of the above, the main objective of the 3rd ISIF-2008 Workshop is to allow Russian and Former Soviet Union scientists, who had no opportunity to attend the latest meetings on fluorine chemistry, participating in discussions with university and industry specialists from Inorganic Fluorine Groups worldwide and get up-to-date information on both fundamental and technological aspects of these fields of

science and technology. On the other hand, scientists coming from Universities and Industry Research Centres will be able to implement the achievements of the prominent Russian scientists – from new development routes to functional fluorinated materials.

ISIF-2008 Workshop Location

The Third International Siberian Workshop on Advanced Fluorides will be held from 01 to 06 September 2008 in Vladivostok.

We are confident that a special friendly atmosphere of the major scientific centre of the Russia Far East will help us to achieve the above objective on both scientific and social levels. The Far-Eastern Branch of the Russian Academy of Sciences, the location of the ISIF-2008 Workshop, is well-known in international science, educational trade, and high-tech industries. Located in the Far East Coast and being a terminal point of the Russian Great Trans-Siberian Railroad, Vladivostok is a city characterized by sustainable development. It was founded in 1860 at the Pacific Ocean coast. This is the largest city in the Russia Far Eastern region. There are 6 universities and the Far East Department of the Russian Academy of Sciences that consists of 14 academic institutes. The city is situated on hills of Murav'ev-Amurski Peninsula and surrounded by two bays. The area unites a magnificent countryside, coastline and islands. In 2012 Vladivostok will host the summit of the Asia-Pacific Economic Cooperation organization that is expected to boost its development in many fields including science and technology. It is also important to mention that Vladivostok is one of the ecologically pure cities in Russia, being at the same time the most powerful East Gate of Russia for International Trade.

The autumn in Vladivostok is the finest season, especially September. The air temperature is usually about 20^{o}C. But as the climate in Vladivostok is monsoon it would not be bad to take an umbrella. All participants arriving to the International Airport of Vladivostok or through its rail way terminal will be picked up and transferred to Hotels of the Workshop location. The trasfer will be managed by Local Organizing Committee representatives.

All sessions of the meeting will take place in the conference hall of the "Gold shore" Hotel.

Contact phone/fax +74232311889 and phone, +74232311636.

Additionally, all participants and accompanying persons will have a unique opportunity to be introduced into the magic world of the ocean coast, theatre and musical arts of Vladivostok. Cultural program will also provide some sightseeing excursions. A number of museums, including the Arsenyev Primorye State Museum, Art Gallery, a unique Vladivostok Fortress, the museum of Automotoantiquity, the legendary submarine S-56, and oceanarium will also open doors for guests of Vladivostok.

IMPORTANT DATES

- **Registration Form (last date)** **May 31, 2008**
- **Accommodation Form** **May 31, 2008**
- **Invitation Letter Order** **May 15, 2008**
- **Manuscript submission** **June 15, 2008**

SCIENTIFIC PROGRAM OF "ISIF-2008"

The scientific program will be settled by the Scientific Advisory Board, in connection with ISIF-2008 International Organizing Committee. Contributions on all aspects of inorganic fluorine chemistry and technology will be welcome. The ISIF-2008 will work in a seminar format and include 14 key-note lectures, 36 oral and 58 poster presentations.

1. General state of natural fluorine raw material sources and new approaches to operation of raw deposits of inorganic fluorine. *The current state of the traditional natural sources of fluorine and environment at exploration of deposits. Secondary (man-made) and new possible operational resources of fluorine. Paths of risks reduction for production of global warming potential gases by use of inorganic fluoride technologies for making a safe and comfort life for both present and future generations.*

2. New theoretical approaches to the description of electronic and molecular structure of inorganic fluorides. *Quantum chemical calculations of real fluoride structures in their condensed state, including nanostructures and superstructures. Coexistence of fluorine and oxygen in the crystalline and nanocrystalline objects.*

New advanced methods of calculations for thermodynamic and kinetic aspects of reaction abilities and spectrochemical properties of inorganic fluorides.

3. New pathways of some specific inorganic fluoride syntheses, including objects in their nanosized state. *New theoretical approaches to the description of processes of synthesis of some specific inorganic fluorides. F-organometallic precursors, spray-engineering, low-temperature synthesis, hydrothermal synthesis, photosynthesis, propagation of chips etc. The nanosized powders and films, single nanocrystals, nanocomposites on the basis of inorganic, organic and polymeric fluoride materials. Open structures - zeolites, mesophases on the basis of inorganic fluorides.*

4. Latest developments in structural, physical and analytical chemistry of inorganic fluorides, including coordination compounds. *Problems of the description of correlation between theoretical structures and substantial properties. New generalizations in chemistry of the highest, lowest and unusual oxidation states of inorganic fluorides. Clustering fluorides, clathrating fluorides, supramolecular and permolecular F-compounds. Problems and new advanced solutions in analytical chemistry of fluorine and fluorides.*

5. The bridges between inorganic, organic fluorides and catalysis. *Fluorine chemistry. Application of inorganic fluorides for replacement of CFCs onto HFC in fluorination of organic molecules, chemistry of perfluorinated organic solvents, catalysis, sorption technologies etc. Problems of catalytic degradation and disposal of CFCs. Possibilities of biomedical application of inorganic fluorides and aggregates on their basis.*

6. Application of fluorination in development of coatings on surfaces. *Fluorination in gaseous fluid and F-containing plasma medium. Modification of surfaces of the materials (metals, ceramics, polymers, elastomers). Technical applications in antifriction and hydrophobic materials, textile and woollen tissues, architecture etc.*

7. Role of inorganic fluorides in the chemical batteries and electrical engineering. *Lithium chemical electrical cells, including lithium-ionic systems. Fuel cells. Various fluorinated carbon materials - graphites, diamonds, nanotubes, fullerenes. Superionics, supercapacitors, actuators, and hybrid microassembly.*

8. Applications of inorganic fluorides in optoelectronics and semiconductor industry. *Luminescent fluorides, glasses and ceramics, transducers of frequency, use in the optical and ultra-violet range, including laser microlytography and printer technologies.*

9. Industrial production and prospective applications of inorganic fluorides. New technologies for effective ecologically safe production of fluorine, fluorine hydride, new fluorinating agents and other inorganic fluorides, including those for nuclear, laser and electronic engineering etc. Recent trends and explorations of application of inorganic fluorides in metallurgy of lithium, aluminium, magnesium, titanium, and heavy non-ferrous metals.

Format of ISIF-2008 – Workshop Seminar with discussion of engaged key-note, short oral and poster reports devoted to all sections of the Scientific Program. Materials of ISIF-2008 will be published in a Proceedings Volume (1-2-page abstracts or 5-6-page papers). Exhibition of scientific, analytic and laboratory equipment related to ISIF-2008 from sponsoring and producing is tentatively scheduled Materials of ISIF-2008 will be published in Proceedings Volume (4-5 pages manuscript papers). Exhibition of scientific, analytic and laboratory equipment will be provided by sponsoring and producing companies.

Key-Note (Plenary) Invited Lectures

Tressaud Alain, «**Structural and physico-chemical properties of series of functionalized nanostructured fluorides: Application to catalysis and optical absorption»,** CNRS, Bordeaux, France
Roesky Herbert, **«Recent developments in Main Group Fluorine Chemistry»,** Institut für Anorganische Chemie der Universität Göttingen, Germany
Rabai Jozsef, «**Advanced Fluorous Chemistry»,** Eotvos Lorand University, Budapest, Hungary
Nakajima Tsuyoshi, Achiha Takashi, Ohzawa Yoshimi, **«Charge/discharge behavior of surface-fluorinated graphite for lithium ion battery Department of Applied Chemistry»**, Aichi Institute of Technology, Yakusa, Toyota, Japan
Žemva Boris, Goreshnik E., Bunič T. and Tramšek M**. «HF molecules and (poly)-hydrogen-fluoride anions as binding units in the coordination compounds»**, *"Jožef Stefan" Institute* Ljubljana, Slovenia
Karl Christe, David Dixon and Ralf Haiges, «**Recent Results in Main Group Fluoride Chemistry»,** Loker Research Institute, University of Southern California, USA
Darryl Desmarteau, «**Novel Fluoroalkylsulfonimides as Electrolytes in Fuel Cells and Lithium Batteries».** Clemson University, USA
Gary Shrobilgen, «**Xenon(II) Sulfur Nitrogen Fluoride Cations Derived from N≡SF_3; the Synthesis and Structure of $FXeONO_2$; and New Xenon(IV) and (VI) Oxide Fluoride Anions and Cations»,** McMaster University, Hamilton, Ontario, Canada
Groult Henri [H. Groult, M. Salanne, A. Barhoun, H. El Ghallali, F. Lantelme], «**Electrochemical studies of Zr-based molten alkali fluorides»,** *P. & M. Curie University – CNRS,* Paris, France
Mitkin Valentin, «**Prospectives of fluoroxidants application in analysis and technology of the primary and secondary noble metals»,** Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia

Levchenko Ljudmila, «**Physical Chemistry of sorption and ion-exchange processes in novel carbon-fluorocarbon nanocomposition matrices»,** Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia
Polyakov Peter, «**Modern state of aluminum fluorides application in aluminum industry»,** Krasnoyarsk Institute of Non-Ferrous Metals, Krasnoyarsk, Russia
Davidovich Ruven, «**Structural depolymerization of metal fluoride complexes**», Institute of Chemistry FEB RAS, Vladivostok, Russia

Oral invited presentations

P. Garcia, H. Swidersky **«Hydrolysis of flux residue on brazed Aluminum»,** Solvay Fluor GmbH, Hannover, Germany
Y.S.Lee, S. M. Yun, J. S. Im, Y.S. Cho, Y.G. Kang, H. J.ung and D. J. Kim «**The electrical properties of fluorinated single walled carbon nanotube films»,** Chungnam national university, Korea
Polinovskij K.D., Panova E.N., Kopbaeva M.P., Duisebayev B.O. «**Development of Technology Utilization of FluoRine-Contained Gases from the Beryllium Production by Method Selective Sorption of SiF_4»,** Institute of higher technologies, National corporation "Kazatomporm", Republic of Kazakhstan
Zayakina S. «**Main features of microelements determination in inorganic fluorides by new techniques of atomic emission spectroscopy»,** Nikolaev Institute of Inorganic Chemistry SB RAS, Novosibirsk, Russia
Flerov I.N., Fokina V.D., Laptash N.M. «**Oxyfluorides with elpasolite-cryolite structure as materials of fundamental and practical interests»**, Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia
Fedorov P.P., Basiev T.T., Osiko V.V., Konyushkin V.A., Doroshenko M.E., Kuznetsov S.V., Mironov I.A., Dykel'sky K.V., Smirnov A.N., Garibin E.A. «**Fluoride Optical Ceramics»**, Prokhorov Institute of General Physics RAS, Moscow, Russia
Olga Sharts, Lev Avakyants, «**Carbon-Fluorine Spectroscopy as a discovery and analytical platform, based on the detection of C-F bond»,** Fluorotronics Inc., USA
Kharitonov A.P., Tressaud A., Durand E., Labrugere C. «**Surface properties of high density and ultra high molecular weight polyethylene treated with elemental fluorine and plasma fluorination»,** Institute of Energetic Problems (department) RAS, Chernogolovka, Moscow region, Russia
Kvicala J., Kysilka O., Rybackova M., Skalicky M. «**Fluorous imidazolium ionic liquids: synthesis, properties, 2D NMR»,** Institute of Chemical Technology, Dept. Org. Chem., Prague, Czech Republic
Shatalov V.V. «**History of Fluorine and Uranium Hexafluoride Production in USSR and Russia**», All-Union Institute of Chemical Technology, Moscow, Russia
Zhiganov A.N. «**Modern Fluorine Chemistry. Technology and Fluorine Education in Tomsk and Seversk**», Seversk State Technological Academy, Seversk, Russia
Ostvald R., Shagalov V., Zherin I., Mitkin V., Motovilov P., Ivlev S. «**Complex Compounds of Bromine Threefluoride with Fluorides of Alkaline Metals**», Physical Technical Department, Tomsk Polytechnic University, Russia

Oral presentations

Udovenko A.A., Laptash N.M. «Dynamic orientational disorder in crystals of fluoroelpasolites», Institute of Chemistry FEB RAS, Vladivostok, Russia
Laptash N.M. and Kurilenko L.N. «Fluoride sample preparation for analysis of silicon-containing materials», Institute of Chemistry FEB RAS, Vladivostok, Russia
Polishchuk A.V., Karaseva E.T., Cramariuc O., Karasev V.E. «New luminofor-activators based on (fluoro)quinolone antibacterials», Institute of Chemistry FEB RAS, Vladivostok, Russia
Kavun V.Ya., Ignatieva L.N., Merkulov E.B., Sloboduyk A.B., Logoveev N.A., Sinebrukhov S.L., Gnedenkov S.V. «Synthesis and complex study of bismuth fluorine-containing glasses by NMR, IR and impedance spectroscopy», Institute of Chemistry FEB RAS, Vladivostok, Russia
Goncharuk V.K., Kavun V.Ya., Yaroshenko R.M., Merkulov E.B., Slobodyuk A.B. «Fluoride glass based optical materials for devices, functioning in atmosphere», Institute of Chemistry FEB RAS, Vladivostok, Russia
Tsvetnikov A.K. «Thermo-gradientional and thermo-impact methods of synthesis nano-and microdispersed of fluorocarbons nanomaterials. Properties and application», Institute of Chemistry FEBRAS, Vladivostok, Russia
Kuryavyi V.G., Bouznik V.M., Ignatieva L.N., Tzvetnikov A.K. «Destruction of polytetrafluoroethylene in the plasma electric discharge», Institute of Chemistry FEB RAS, Vladivostok, Russia
Ledovskikh A.K., Galata A.A., Murlyshev A.P. Volchkov V.S., Shugurov V.V., Denosiv V.V., Yakovlev V.V. «Technology of extraction of silicon tetrafluoride by sorption and its decomposition under the pulsed discharge», FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Prokopenko A.E., Kuliev R.U. «Commercial application of the hydrofluoric acid solutions produced during defluorination of the depleted uranium hexafluoride», Electrochemical plant, Zelenogorsk, Rosatom, Krasnoyarsk region, Russia

Sennikov P.G., Krylov V.A., Chuprov L.A., Sorochkina T.G. «Molecular impurities in natural and isotopicaly modified silicon tetrafluoride», Institute of Chemistry of High-Purity Substances, Nizhny Novgorod, Russia

Pashkevich D.S., Barabanov V.G. «Nontraditional fluorine applying in chemical technologys», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Kostylev A.I., Pokrovsky Yu.G., Lantratova O.V., Mukhortov D.A., Petrov V.B., Kambur M.P., Pashkevich D.S., Alekseev Yu.I. «Pilot technology of production of trifluorophosphine complexes of nickel and platinum metals», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Pinakov D.V. «Clathrate Formation of Fluorinated Graphite of Different Fluorination Degree (Host) with Organic Guest Molecules (Acetonitrile, Chloroform)», Nikolaev Institute of Inorganic Chemistry of SB RAS Novosibirsk,Russia

Ogherelyev O.A., Kochubey D.I. «Chemic-Technological Model of Zirconium, Hafnium Tetrafluorides Purification», Seversk State Technologic Academy, Seversk of Tomsk region, Russia

Pushkin D.V., Serezhkin V.N., Karasev M.O., Kravchenko E.A. «On the Correlation of Structural and NQR-spectroscopic Characteristics in Antimony Flourides»; Samara State University. Department of Chemistry, Russia

Fiskov A.A. «Development of production technology of tablet sorbents on the base of Li, Na and Ba», FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Molokeev M.S., Flerov I.N., Tressaud A., Vasiliev A.D., Aleksandrov K.S., Voronov V.N., Laptash N.M. «Crystal structures of room- and low-temperature phases in Rb_2KTiOF_5 and Rb_2KFeF_6», Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia

Vtyurin A.N., Krylov A.S., Gerasimova J.V., Ivanenko A.A., Shestakov N.P., Laptash N.M., Voit E.I. «Structure and ordering processes in $A_2BWO_3F_3$ oxyfuorides, studied by vibrational spectroscopy», Kirensky Institute of Physics SB RAS, Krasnoyarsk, Russia

Khaliullin R., Domanetskaya N. «The solid state decomposition of KBF_4 and of KBF_4-$KClO_4$ mixed crystals under gamma-ray and UV irradiation», Kemerovo State University, Russia

Adonin N.Yu., Bardin V.V., Frohn H.-J. «Development of synthetic approaches to perfluorinated alkylboron compounds», Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

Bulanov A.D., Troshin O.Yu., Mikheev V.S., Balabanov V.V., Lashkov A.Yu. «Preparation of high-purity isotopic species of silicon by fluoride technology», Institute of Chemistry of High-Purity Substances of the RUS, Nizhny Novgorod, Russia

Kharitonov A.P., Buinovskii A.S., Chepezubov M.G., Kharitonova L.N. «Influence of the surface fluorination of polymer films and metal-coated polymer films on their surface energy and printability», Seversk State Technologic Academy, Seversk of Tomsk region, Russia

Gromov O.B., Mit´kin V.N., Seredenko V.A. «Calculations intend is boiling temperature of the isotopic uranium hexafluorides», Federal State Unitary Enterprise "All-Russian Institute of Chemical Technology", Moscow, Russia

Elkin Yu. «Tetracetate hexopyranosylfluorine: mesomeric effect to the fragmentation caused by electron ionization», Pacific Institute of Bioorganic Chemistry, Vladivostok, Russia

Poster presentations

Rodin V.I., Torochkov E.L., Travin B.M., Zagudaev A.M. «Novaday problems of aluminium fluoride production in Russia, JS Research Institute of fertilizer and fungicides», Moscow, Russia

Bushkova O.V., Andreev O.L., Batalov N.N. «Studies of chemical reactions of $LiPF_6$ with the binary lithium oxides $LiMO_2$ (M=Ti, V, Cr, Mn, Fe, Co, Ni) by thermodynamic medelling method», Institute of the High Temperature Electrochemistry» Ural Branch of RAS, Ecaterinburg, Russia

Popov S.E., Bushkova O.V. «Calculation of the vibration spectra for ion associates, formed by $LiXF_6$ (X=As, P) in aprothic solvents», Institute of the High Temperature Electrochemistry Ural Branch of RAS, Ecaterinburg, Russia

Pashkevich D.S. Petrov V.B., Alekseev Yu.I., Kambur M.P., Kambur P.S., Mukhortov D.A. «Regeneration of fluorine in the form of anhydrous hydrogen fluoride from volatile inorganic fluorides in the burning regime», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Pashkevich D.S., Alekseev Yu.I., Kambour M.P., Kambour P.S., Lantratova O.V., Moukhortov D.A., Petrov V.B.,Vasileva L.A., Predtechenskiy Yu.B. «Iridium hexafluoride synthesis with elements using», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Pashkevich D.S., Mukhortov D.A., Kambur M.P., Petrov V.B., Alekseev Yu.I., Alentjev A.Yu., Polotskaya G.A. «Kinetic characteristics of nitrogen trifluoride and tetrafluoromethane transfer through polymeric membranes», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Kambur P.S., Pashkevich D.S., Mukhortov D.A., Kambur M.P., Petrov V.B., Kaurova G.I., Matalin V.A. «Fogalin stabilization with elemental fluorine using», FSUE Russian Scientific Center "Applied Chemistry", St.-Petersburg, Russia

Kozlov A.A., Bogdan-Kurilo V.D., Luginina A.A. «Development of a technology for the production of high-purity Lithium Fluoride for single-crystal thermoluminescent detectors using additional purification of source materials», FSUE Angarsk Electrochemical Company, Angarsk of Irkutsk region, Russia

Polyakova N.V., Vulf V.A., Vorlakov V.P., Fateev S.A. «Fluorinated nanocarbons», FSUE Research Institute of Electrocarbon items, Electrougli of Moscow region, Russia

Tovmash N. F., Yaryshkina L.O., Tarasova L.D., Boychenko A.M. "Theoretical basics of the component analysis of hexafluorophosphate alkali metals – a material for power sources", Lazaryan Dnepropetrovsk National University of Rail Way Transport, Dnepropetrovsk, Ukraine

Shevchenko L.V., Yaryshkina L.O., Makarov A.V. «Syntheses and analyses of salts KBF_3OR (R= C_2H_5, C_3H_7, C_6H_5, CH_2CF_3)", Lazaryan Dnepropetrovsk National University of Rail Way Transport, Dnepropetrovsk, Ukraine

Lazarchuk V.V. Ledovskikh A.K., Matveev A.A., Galata A.A., Murlyshev A.P., Volchkov V.S., Sinkin I.M. Complex nonwaste technology of production of wares from tungsten metal by CVD process, FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Matveev A.S., Galata A.A., Korolev G.M., Neradovskaya N.V., Shirikalova O.A. «Determination of bromine in uranium hexafluoride by X-ray fluorescence», FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Buinovsky A.S., Sofronov V.L., Brendakov V.N., Lazarchuk V.V., Smolkin P.A. «Modeling of processes of desublimation of refractory metal fluoride», FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Buinovsky A.S., Makaseev A.Yu., Matveev A.A., Galata A.A., Murlyshev A.P., Volchkov V.S., Sinkin I.M. « Analyze of fluorine by Fourier Transform Infrared (FTIR), Mass-Spectroscopy (MS) and Gas Chromatographic (GC), FSUE Siberian Group of Chemical Enterprises, Rosatom, Seversk of Tomsk region, Russia

Kraidenko R.I. «Interaction of germanium dioxide with ammonium fluorides», Tomsk Polytechnic University, Tomsk, Russia

Malovitsky Yu.N., Dem'yanova L.P., Rimkevich V.S. «Nanodispersing silicon dioxide obtaining by fluoride method», Institute of Geology and Nature Usage, Blagoveshchensk of Amur region, Russia

Popov P.A., Konyushkin V.A., Nakladov A.N., Kuznetsov S.V., Fedorov P.P., Basiev T.T., Osiko V.V. Thermal conductivity of fluoride single crystals, Prokhorov Institute of general physics RAS, Moscow, Russia

Kuznetsov S.V., Fedorov P.P., Voronov V.V., Basiev T.T., Osiko V.V., Yarotskaya I.V., Arbenina V.V., Kozlov A.A., Bogdan-Kurilo V.D., Luginina A.A. Synthesis of fluoride nanoparticles from water solutions. Prokhorov Institute of general physics RAS, Moscow, FSUE Angarsk Electrochemical Company, Angarsk of Irkutsk region, Russia

Ekimov A.A, Krylov A.S., Vtyurin A.N, Ivanenko A.A., Shestakov N.P., Goryainov S.V., Kocharova A.G. «Vibrational spectroscopy study of phase transition in $K_3WO_3F_3$: temperature and high pressure investigations», Kirensky institute of physics SB RAS, Krasnoyarsk, Russia

Krylov A.S., Vtyurin A.N, Goryainov S.V., Voronov V.N, Laptash N.M. «Pressure and temperature dependence of Raman spectra in Rb_2KTiOF_5»., Kirensky institute of physics SB RAS, Krasnoyarsk, Russia

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Gerasimenko A.V., Didenko N.A., Tkachenko I.A., Kavun V.Ya. «Synthesis, structure and ion mobility in rubidium-ammonium, potassium-ammonium and potassium-rubidium fluorozirconates», Institute of Chemistry FEB RAS, Vladivostok, Russia

Udovenko A.A. Kovaleva V., Makarenko N.V., Zemnukhova L.A. «Crystal structures of antimony(III) complex fluorides with leucine and serine», Institute of Chemistry FEB RAS, Vladivostok, Russia

Antokhina T.F., Savchenko N.N., Ignatieva L.N., Kaidalova T.A. «Synthesis and physico-chemical properties of ethylene diamine titanium and zirconium fluorocomplexes», Institute of Chemistry FEB RAS, Vladivostok, Russia

Antokhina T.F.,Gerasimenko A.V., Savchenko N.N., Flerov I.N., Ignatieva L.N., Merkulov E.B. «Synthesis, structure and properties of new ammonium-containing germanium and titanium fluorocomplexes with heteroatomic cationic sublattice», Institute of Chemistry FEB RAS, Vladivostok, Russia

Ignatieva L.N., Antokhina T.F., Polishchuk S.A., Savchenko N.N., Merkulov E.B., Bouznik V.M. «New oxyfluorides glasses», Institute of Chemistry FEB RAS, Vladivostok, Russia

Buinovsky A.S., Sofronov V.L., Soloviev A.I., Malyutina V.M., «Fluorine method of ilmenite concentrates treatment», Seversk State Technologic Academy, Seversk of Tomsk region, Russia

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Khaliullin R., Domanetskaya N. «FTIR spectroscopy study of $K(ClO_4)_{(1-X)}(BF_4)_X$ mixed crystals structure», Kemerovo State University, Russia

Skalicky M., Rybackova M., Kvicala J., «Fluorous imidazolylidene carbenes: preparation and NMR studies», *Institute of Chemical Technology, Dept. Org. Chem.* Prague, Czech Republic

Adonin N.Yu., Bardin V.V., Frohn H.-J., «Synthesis and properties of fluorinated alkenylboron compounds», Boreskov Institute of Catalysis SB RAS, Novosibirsk, Russia

Gromov O.B., Seredenko V.A., Dgerin I.I.*, Ostvald R.V.*, Shagalov V.V. «Chemical bond type and calculation intends is decomposition temperature of the complexes isotopic uranium hexafluorides and sodium fluoride», Federal State Unitary Enterprise "All-Russian Institute of Chemical Technology", Moscow Russia, *Tomsk polytechnic university, Tomsk, Russia

Volkova L.M., Polyshchuk S.A. «The study of magnetic interactions on the basis of structural data: ordered zigzag chain K_2VOF_4 and $(NH_4)_2VOF_4$ and frustrated triangular lattice $KCu(CO_3)F$ antiferromagnets», Institute of Chemistry FEBRAS, Vladivostok, Russia

Udovenko A.A., Laptash N.M. «Static and dynamic disorder in crystals of dioxofluorotungstates», Institute of Chemistry FEB RAS, Vladivostok, Russia

Maslennikova I.G., Laptash N.M. «Fluoride processing of titanium-containing raw materials», Institute of Chemistry FEB RAS, Vladivostok, Russia

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Prituzhalov V.A., Videau J.-J., Ardashnikova E.I., Dolgikh V.A. «TeO_2-based oxyfluoride glass-ceramic», Lomonosov Moscow State University, Moscow, Russia

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Ostvald R., Shagalov V., Zherin I., Usov V., Motovilov P., Ivlev S. «Fluorination of Uranium Compounds With Halogen Fluorides», Physical Technical Department , Tomsk Polytechnic University, Russia

Vdovichenko V.D., Gromov O.B., Evdokimov A.N., Ivanov A.V., Logvinenko I.A., Seredenko V.A., Sergeev G.S Shatalov V.V. «Granulometric characteristics of uranium tetrafluoride during the conversion of deplited uranium hexafluoride in the fluorine-hydrogen flame», Federal State Unitary Enterprise "All-Russian Institute of Chemical Technology", Moscow, Russia

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Gromov O.B., Prokudin V.K*. «The secretion of the hydrogen fluoride and it influence on the ecology under aluminum industry», Federal State Unitary Enterprise "All-Russian Institute of Chemical Technology", Moscow, Russia, *Company of limited responsible "STC Zapsibpromtechnology", Tomsk, Russia

Skalicky M, Rybackova M., Kvicala J. «Fluorous imidazolium ionic liquids: synthesis, properties, 2D NMR», Institute of Chemical Technology, Dept. Org. Chem. Prague, Czech Republic
Kalinovskaya I.V., Kon'shin V.V., Karasev V.E. «Study of mixed beta-diketonate europium complexes synthesis with trifluoroacetic acid by means of NMR and luminescence spectroscopy», Institute of Chemistry FEB RAS, Vladivostok, Russia
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Voronov V.N. «Crystallisation and studies of compounds with $TlAlF_4$ structure», Kirensky institute of physics SB RAS, Krasnoyarsk, Russia
Polishchuk A.V., Cramariuc O., Karaseva E.T., Charushin V.N., Karasev V.E. «Photochemikal behavior of some fluoroquinolones in strong acid solutions», Institute of Chemistry FEB RAS, Vladivostok, Russia
Bulanov A.D., Lashkov A.Yu., Pimenov V.G., Lipatova M.M., Churbanov M.F. «Determination of content and composition of metal impurities in germanium tetrafluoride», Institute of Chemistry of High-Purity Substances of the RUS, Nizhny Novgorod, Russia
Voit E.I., Voit A.V., Davidovich R.L. «Ab initio quantum chemical calculations of lead(II) complexes with halides: lone-pair activity and bond energies», Institute of Chemistry FEB RAS, Vladivostok, Russia
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Preliminary Scientific Program of ISIF-2008

September 1	September 2	September 3	September 4	September 5	September 6
Registration 12-00–19-00	Opening ceremony 10-00 – 10-20 Session 1 Plenary lectures and oral presentations 10-20 – 11-50	Session 3 Plenary lectures and oral presentations 10-00 – 12-00	Cultural Program Tourist Visits to Sight-seeings, Museums, Peers Etc.	Session 5 Plenary lectures and oral presentations 10-00 – 12-00	Session 8 Plenary lectures and oral presentations 10-00 – 11-30
Welcome Party 19-00 – 21-30	Coffee-break 11-50 – 12-20	Coffee-break 12-00 – 12-30		Coffee-break 12-00 – 12-30	Coffee-break 11-30 – 12-00
	Session 1 Plenary lectures and oral presentations 12-20 – 14-00	Session 3 Plenary lectures and oral presentations 12-30 – 14-00		Session 6 Plenary lectures and oral presentations 12-30 – 14-00	Session 9 Plenary lectures and oral presentations Open discussion, taking of ISIF-2008 final decision, Closing ceremony
	Lunch 14-00 – 16-00	Lunch 14-00 – 16-00		Lunch 14-00 – 16-00	
	Session 2 Plenary lectures and oral presentations 16-00 – 17-30	Session 4 Plenary lectures and oral presentations 16-00 – 17-30		Session 7 Plenary lectures and oral presentations 16-00 – 17-30	12-00 – 13-30-
	Coffee-break 17-30 – 18-00	Coffee-break 17-30 – 18-00		Coffee-break 17-30 – 18-00	
	Session 2 Oral presentations 18-00 – 19-00	Session 4 Oral presentations 18-00 – 18-40		Session 7 Oral presentations 18-00 – 19-00	
	Poster Session 1 19-00 – 20-00	Excursion 20-00 – 23-30		Poster Session 2 19-00 – 20-00	
				Banquet 20-30 – 22-30	

The final scientific programme will be available three weeks before the start of ISIF-2008

Preliminary Guest Accommodation Program of ISIF-2008

Sunday August 31 – Monday September 01, 2008	Friday – September 05, 2008 Saturday – September 06, 2008
Arriving of participants to Vladivostok. Pick up of Guests, Transportation to Hotels, Registration and Accommodation of Participants and Accompanying Persons in Hotels	Departure of participants, Pick up of Guests, Transportation To railway Station and Airport of Vladivostok.

REGISTRATION ISIF-2008

Please complete and return a separate registration form for each participant.
Electronic forms are preferable. Photocopies of the forms may be also used.

Registration fees.

All fees are given in Euros (or in USD). All "in advance" post payments have to be transferred via Special Bank account. Details of Bank wires will be send to each participant after contact with Scientific Secretary ISIF-2008 Professor Valeriy Kavun **kavun@ich.dvo.ru and** with Secretary General **mit@che.nsk.su.**

It is important: The registration fee of 220 € may be paid on site during registration for ISIF-2008 in the conference hall of the "Golden Shore" Hotel.

The registration fee for active participants and students includes the following:

Welcome party /Attendance at all conference sessions / Proceedings volume of ISIF-2008 / Participant bag containing scientific and tourist information/ Coffee and Tea breaks / Ground Transportation between Airport or Railway Terminal and Hotel and between Hotel and Seminar site.

The registration fee for accompanying persons includes:

Welcome party /Visit to historical places of Vladivostok, Various Museums, including .ocean peers, Art Galleries / Excursion to natural surroundings / Portfolio containing tourist information / Attendance at Coffee and Tea breaks / Shuttle between Airport and Hotel and between Hotel and Seminar site.

Registration fee includes also the compensation of postal, fax and phone expenses.

Status	Before August 31, 2008
Active Participant	Euro 220 [or ~USD 350] *)
Student *)	Euro 100 [or ~USD 160] **)
Accompany person	Euro 120 [or ~USD 190] **)
Participation to the Banquet	Euro 30 [or ~USD 50] *)

*)**Note:** ***Basic currency is Euro. Payment in USD is calculated through flowing rate USD/Euro***

*****) To register as a Student, a written statement is required from University or Supervisor confirming a Student Status.***

CONTRIBUTED PAPERS

Participants who wish to have a presentation (in poster or oral form) are invited to submit the manuscript of four-five fully completed pages before June 20, 2008. Papers from the participants have to be submitted as a .doc files (any version of Word 97, Word 98, Word 2000;) via e-mail to **isif@ich.dvo.ru**. Copy of paper has to be sent to IOC – luda@che.nsk.su

Please, carefully follow the instruction and guidelines of the Paper Submission Form.

Papers will be considered by the Scientific Advisory Board. Acceptance of the contribution either in oral or poster forms will be notified to the corresponding author among May 31 to June 15, 2008.

TECHNICAL INFORMATION FOR PRESENTATIONS

1. Oral presentations:

Overhead projector and multimedia viewer (Microsoft PowerPoint) will be available.

As shown in the schedule, all the oral sessions are conducted in sequential streams include plenary key-note lectures (25 + 5 min) and oral contributions. The duration of oral presentation is 10 min and 5 min for discussion. Speakers are requested to ensure that they stay within the time allowed for their presentation.

2. Poster presentations

There will be two poster sessions in the "Golden Shore" Hotel. Active duration of each Poster Session will be between 19-00 and 20-00 every day of Workshop. Poster presentations for each session have to be started in the beginning of working day of ISIF-2008.

The size of the display panels will be 1.2 m (height) by 0.84 (width). Pushpins will be available. A competition for the best poster presented by young researcher will be organized in the framework of the poster sessions. Authors are requested to stay by their poster during the considered session.

GENERAL INFORMATION

Visa

Visa is required for foreign participants. Visa can be obtained from Russian Embassies, or designated representative offices. The Organizing Committee can provide personal invitations required for the visa application.

Letter of Invitation

An official letter of invitation to attend the symposium will be sent to delegates who need assistance in obtaining a visa. Please address your request to the conference secretariat - **kavun@ich.dvo.ru**

How to reach Vladivostok

All details of travel to Vladivostok will be given additionally by the conference secretariat - **kavun@ich.dvo.ru** after confirmation of participation.

Arrival

All participants will be picked up at airport of Vladivostok or at Vladivostok Railway Terminal and delivered to Hotels by the transport of Organizing Committee.

Conference Location

The Conference will be held from September 01 to September 06, 2008 at, located closely to Vladivostok. Lunches should be taken at restaurant in the vicinity of the Conference Site.

Registration

The registration will be opened on September 1, 2008 from 12-00 to 19-00 and will be continue on Tuesday, September 02 from 9:00 to 10 in Conference hall of "Golden Shore" Hotel..

Banquet

The ISIF-2008 Official Banquet will be held on Thursday September 05. The transport will be granted by the ISIF-2008 Organizing Committee.

Transportation

A bus shuttle will be organized in the morning and the evening between hotels and the Conference site. The Conference site can also be easily reached from Hotel by regular bus transportation of ISIF-2008 Organizing Committee.

Exhibitions and sponsorship

The Organizing Committee is willing to arrange an exhibition of scientific instruments, books etc. Potential exhibitors should contact the Organizing Committee for technical details. Usual payment – 750 USD for 1 square meter during all meeting ISIF-2008. Standard area for small exhibitions – 3-4 square meters (including space for coming and talking visitors). Final cost is depended under short negotiations with Local Organizing Committee.

One information page on the activities of the sponsoring companies will appear in ISIF-2008 Proceedings (back cover).

One-two information page for presentation of active companies, specialized in fluorine chemistry can be published in ISIF-2008 Proceedings. Usual payment – 100 USD for 1 page in ISIF-2008 Proceeding Volume.

—Tourist and excursions service of ISIF-2008 —

Several tours and excursions are planned:

► **Visit the key-places of Vladivostok at the day or night time (included in registration fee)**

► **Marine cruise**

► **Excursion to the botanical garden of Russian Academy of Sciences**

During the conference, most popular beaches of Russian shelf of Japan Sea are at the disposal of conference participants and accompanying persons, in the several meters from hotel locations.

ISIF-2008 Vladivostok, September 01-06, 2008	Registration Form

Please print or type and return one form per participant.
No registration will be confirmed without payment.

FOREIGN PARTICIPANT INFORMATION

Family Name : …… First name : ……
Title : **Dr.** ☐ Prof. ☐ **Mr.** ☐ **Mrs.** ☐
Affiliation ……: ……
Mailing Address : ……
……
City : …… Postal Code : …… Country : ……
Tel. : …… Fax : ……
E-mail : ……
Name of Accompanying Person(s) (and age if under 16): ……

REGISTRATION FEES (Please tick the appropriate box and write the corresponding payment)

☐ Active participant (Before August 31, 2008)	Euros 220 or ~USD 350
☐ Student (Before August 31, 2008)	Euros 100 or ~USD 160
☐ Accompanying person (Before August 31, 2008)	Euros 120 or ~USD 190
☐ Participation to the Banquet (Before May 31, 2008)	Euros 30 or ~USD 50

*)**Note:** ***Basic currency is Euro. Payment in USD is calculated through flowing rate USD/Euro***

Total amount :

CONDITIONS OF PAYMENT (Check one)

You can pay in USD or in Euros

Payment on the Meeting site in cash.

PLEASE FILL OUT THIS FORM AND MAIL, or E-MAIL, or FAX to Prof. Valeriy Kavun
Phone/fax +7(4232) 311636
E-mail : kavun@ich.dvo.ru

ISIF-2008

Vladivostok, September 01-06, 2008

Accommodation Form

INSTRUCTION AND INFORMATION

All reservations must be received by June 15, 2008. After this date we cannot guarantee availabilities. Local Organizing Committee will acknowledge receipt of your reservation by e-mail. All rooms will be assigned on a first-come, first-served basis. Reservations must be secured with an official letter guarantee. Changes or cancellation may be made by Organizing Committee before June 30, 2008.

Available hotels		
1. Gold seashore: the conference location	**2.** Vladimirskaya sloboda (Vladimir's settlement) rest centre (Prices are per room)	**3.** Marine seashore
Available rooms (prices are per one bed, 24h, 1 euro ~ 37 roubles): **a)** 3 beds 2 rooms suite 800 roubles. **b)** 4 beds 3 rooms cottage 1025 roubles. **c)** 2 beds 1 room 825 roubles. **d)** 2 beds 1 room with loggia 1075 roubles.	**a)** 2 bed room 2500 roubles. **b)** Room "de luxe" 1 - 3300 roubles. **c)** Room "de luxe" 2 - 4500 roubles.	1, 2, 3 bed rooms available at 2000 roubles per bed / 24h. Breakfast, lunch, dinner are included. **a)** 1 bed room. **b)** 2 bed room. **c)** 3 bed room.
More information on hotels you can find at the conference web-site: **http://chemi.ich.dvo.ru/isif/**		

LUNCHES WILL BE AVAILABLE IN THE VICINITY OF THE MEETING SITE

I wish to make the following reservation

Hotel number (1/2/3) …… Room type letter (a/b/c/d) ……

Number of rooms or beds requested …….☐ beds ☐ rooms

Reservation/guest name : …….

Additional occupants of room : ……

Arrival date : ……. Departure date : ……

SOCIAL PROGRAMME FOR ACCOMPANYING PERSONS

☐ **Welcome Party** (September 01, 2008)	**included in registration fee**	**19-00 – 21-30**
☐ **BANQUET (**September 05, 2008)	**€ 30**	**20-30 – 22-30**

**** PLEASE NOTE : Invitations will be issued for all social events. Anyone wishing to attend must tick the appropriate box.***

ACKNOWLEDGMENT RECEIPT

PLEASE MAIL MY CONFIRMATION TO:

Name : …… Surname : ……

Affiliation : ……...

Address : ……...

Amount in Euros or USD ……...

City : …… Zip Code : …….. Country :……..

Telephone : …… Fax : ……

E-mail :……...

PLEASE FILL OUT THIS FORM AND MAIL, OR E-MAIL, or FAX TO ISIF-2008, Institute of chemistry, 159, Prosp. 100 letiya Vladivostoka, Vladivostok, 690022, Russia (phone and Fax) +74232311889, ph.+74232311636, conference e-mail isif@ich.dvo.ru

A Model for Manuscript Submission at the Third International Siberian Workshop on Advanced Fluorides, Vladivostok, Russia, September 01-06, 2008

Tressaud A. [1], Moissan Jr. H. [1], Kavun V. [2] MitkinV. [3], and Meshri D. [4]

[1)] Institut de Chimie de la Matière Condensée de Bordeaux (ICMCB-CNRS),
87 Avenue du Dr. A. Schweitzer, 33608 Pessac Cedex, France, *e-mail fluor2001@icmcb.u-bordeaux.fr*
[2)] Institute of Chemistry FEB RAS, 159, Prosp. 100 letiya Vladivostoka,
Vladivostok, 690022, Russia e-mail *kavun@ich.dvo.ru*
[3)] Oxidative fluorination group Nikolaev Institute of Inorganic Chemistry SB RAS,
3, Acad. Lavrentjev Avenue, Novosibirsk, 630090, Russia, *e-mail mit@che.nsk.su*
[4)] Advance Research Chemicals, Inc., Catoosa, Oklahoma, USA, e-mail *maria@fluoridearc.com*

How to submit manuscript. The manuscript should be Word processed typed in English using single line spacing and Times New Roman font (11 size) on a single sheet of A4 white paper. **Amount of completely filled pages must be 4-5.**

Structure of manuscript. All parts of papers should have a titles - Abstract, Introduction, Experimental part, Discussion of Results, Conclusion and Literature. All these parts should be separated to one single empty space. Abstract has to have a volume not more 300-350 words.

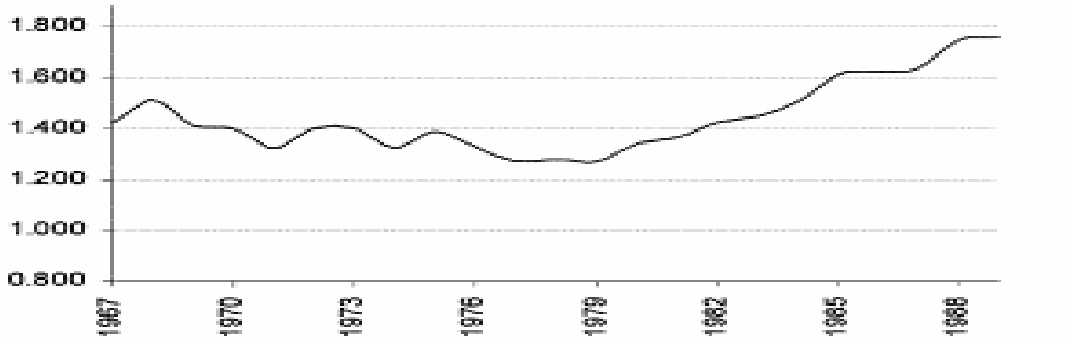

Fig. 1. Dependence of love and friendship on fluorine amount in our laboratories

The title of the manuscript and the names of the authors (Name + Initial(s)) are typed in **bold characters and centred**. They are separated by one single line. The full manuscript should be typed on one column & 16 cm wide. The margins should be as following: top margin 2 cm, bottom margin 3 cm, left margin 2.5 cm and right margin 2.5 cm, no bookbinding style.

The names and postal addresses of all authors should be given in Times New Roman 10 size font and centred. The addresses are separated from the list of names by one single line and should be typed in single characters and centred. The name of the presenter (i.e. the individual who will attend the meeting to present the work) should be underlined.

The presenter should indicate his(her) e-mail address just after the postal address. Figures, graphs and schemes can be included in the text, as Fig. 1.

Figure captions have to be printed in Times New Roman script (9 size) and centred.

Fig. 1 is excellent coincides with a number of papers in Chem. Abstracts indexed under "fluorine" as a percentage of the total number of papers [1, 2].

References, denoted by superscript numbers in the text, should be listed at the end of the text using the name of journal, volume, year (with point) and pages (beginning and end of cited source).

References

1. Schofield H. // J. Fluorine Chem. 1999. V. 100. P. 7.—11.
2. Seeback D., // Chem. Int. Ed. Engl. 1990. V. 29. P. 1320—1335.

PLEASE E-MAIL YOUR ABSTRACT OR PAPER (ATTACHED DOCUMENT as file .doc IS REQUESTED) TO THE CONFERENCE E-MAIL isif@ich.dvo.ru

SPONSORING ORGANIZATIONS

(as to May 15, 2008)

Far East Branch of the Russian Academy of Sciences
Siberian Branch of the Russian Academy of Sciences
Russian Foundation for Basic Research

Federal Corporation on Atomic Energy "Rosatom"

Joint Stock Novosibirsk Chemical Concentrates Plant

FSUE Siberian Group of Chemical Enterprises
FSUE Angarsk Electrochemical Company
FSUE Mining-Chemical Company (Krasnoyarsk-26)
FSUE Electrochemical Plant (Krasnoyarsk-45)

Advance Research Chemicals Inc., USA

Specialized Companies are invited to sponsorship -
ATOFINA / COMURHEX / RHODIA / SOLVAY FLUORÉS
and other companies, firms and organizations