

INTERNATIONAL CONFERENCE ON STRONGLY COUPLED COULOMB SYSTEMS

June 20-25, 2005

Moscow, Russia

<http://www.ihed.ras.ru/sccs2005>



SECOND ANNOUNCEMENT

The International Conference on Strongly Coupled Coulomb Systems (SCCS-2005) will be hosted by the Russian Academy of Sciences and will be held in Moscow, June 20-25, 2005.

The conference location is the Building of Presidium of the Russian Academy of Sciences.

Conference Scope

Strongly Coupled Coulomb Systems represent a wide range of physical states that are all many-body systems characterized by strong long-ranged interactions. Topics of particular interest for SCCS-2005 include:

- General statistical physics of Coulomb systems
- Thermodynamic properties
- Transport and optical properties
- Phase transitions in Coulomb systems
- Kinetic theory and ionization processes
- Bound states
- Astrophysical plasmas: physics of the Sun, planetary and stellar interiors
- Dusty plasmas, charged colloids
- High energy density plasmas
- Plasmas generated by strong shock waves
- Plasmas generated by intensive ion, electron and laser beams
- Rydberg matter
- Chemically reactive plasmas
- Ionic liquids and electrolytes
- Liquid metals and metal vapors
- Plasma in metals and semiconductors
- Electron-hole plasmas
- Cryogenic and ultracold plasmas
- Non-neutral plasmas
- Nanostructures
- Bilayers
- Charges in bubbles
- Quantum and classical Monte-Carlo, molecular dynamics etc.

Organizers

- Russian Academy of Sciences
- Ministry of Education and Science of the Russian Federation
- Russian Foundation for Basic Research
- Moscow Committee of Science and Technologies
- Institute for High Energy Densities
- Moscow Institute of Physics and Technology
- Russian Joint Stock Company "Unified Energy System of Russia"

Sponsors

- Russian Academy of Sciences
- Russian Joint Stock Company Unified Energy System of Russia
- Ministry of Education and Science of Russian Federation.
- Russian Foundation for Basic Research
- Moscow Committee of Science and Technologies

SCCS International Advisory Board

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Kenneth Golden (chair)	USA	James Dufty	USA	Vladimir Fortov	Russia
Jean Clerouin	France	Gabor Kalman	USA	Genri Norman	Russia
John Bollinger	USA	Sankar das Sarma	USA		

Scientific Program

The scientific program of the Conference will consist of 12 invited plenary talks (45 minutes), 25 invited topical talks (30 minutes), ordinary oral presentations (20 minutes) and poster section. The official language of the Conference is English. The list of the invited plenary speakers is given below:

M. Barbosa	<i>Univ. of Porto Alegre, Brazil</i>	Charged DNA beyond mean field theory;
G. Chabrier	<i>Lyon, France</i>	Review of recent results in astrophysical plasmas applied to giant planets, white dwarfs, and neutron stars;
D. H. E. Dubin	<i>UCSD, La Jolla, USA</i>	Recent results with strongly coupled ion plasmas;
W. Ebeling	<i>Humboldt University, Berlin, Germany</i>	The method of effective potentials in the quantum statistical theory of plasmas;
V. Filinov	<i>IHED RAS, Moscow, Russia</i>	Monte-Carlo simulations of dense quantum plasmas;
M. Fisher	<i>University of Maryland, USA</i>	Criticality in ionic systems;
F. Hensel	<i>Phiipps-Univ., Marburg, Germany</i>	Liquid metals;
H. M. Thomas	<i>Munich, Germany</i>	Dusty plasmas: theory and experiment;
G. A. Mesyats	<i>RAS, Moscow, Russia</i>	Strongly coupled plasma in the near-cathode region;
V. B. Mintsev	<i>IPCP RAS, Chernogolovka, Russia</i>	Dense plasmas equation of state and transport properties;
G. Senatore	<i>University of Trieste, Italy</i>	Understanding the spin susceptibility of the 2D electron gas in real devices;
A. N. Starostin	<i>TRINITY, Troitsk, Russia</i>	Corrected EOS of weakly non-ideal plasmas without mysteries.

Accommodation

A varied range of accommodation is available in the neighborhood of the Conference site (Leninsky prospekt, 32a). Preferred is the hotel "Sputnik" (www.hotelsputnik.ru). To reserve a room for a special rate, please contact us by e-mail sccs2005@ihed.ras.ru.

For other accommodation possibilities visit the web page www.ihed.ras.ru/sccs2005/accomodation. To reserve a room for a special rate, please contact directly the official tour operator of the Conference (International Ecology Fund-Traveller, Director: Zakharova Olga, e-mail: meftra@kks.com.ru) or the Local Organizing Committee.

Social Events

- Welcome party is planned to be held aboard a comfortable ship which will give a wonderful opportunity to see the historical sites on scenic banks of the Moskva-river.
- Moscow sightseeing bus tour will include visiting the Red Square, Cathedral of Christ the Savior, memorial complex on Poklonnaya Gora, panorama of Moscow from Vorob'yovi Gori.

Additional information about social events is available at www.ihed.ras.ru/sccs2005/cultprog.

Visa Application

If you need a visa to visit Russia, please contact the LOC providing the following information: date and place of birth, nationality, city and address of the embassy where you are going to apply for visa, the dates of your visit and copy of the first page of your passport with the passport number and issue/expiration dates.

Deadlines

Abstract submission	March 31, 2005
Acceptance notification	April 20, 2005
Registration fee payment	May 1, 2005
Final program	June 1, 2005
Publication of full papers	August 31, 2005

Abstract Submission

One-page abstracts should be submitted electronically via web site www.ihed.ras.ru/sccs2005/abstracts.

No submission by e-mail is available. Abstracts should not contain figures.

For information please contact us by e-mail sccs2005@ihed.ras.ru.

Correspondence and Information

LOC secretaries

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Chairman Prof. Vladimir Fortov

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Official tour operator of the Conference: International Ecology Fund-Traveller (IEF-Traveller)

Director: Zakharova Olga

Leninsky Prospekt, 42/3, office 3233, Moscow 119119, Russia

Tel: +7 (095) 938-73-19, 938-73-95

Fax: +7 (095) 137-06-36, 930-99-56

E-mail: meftra@kks.com.ru

Registration Form

**International Conference on Strongly Coupled Coulomb Systems (SCCS-2005)
June 20–25, 2005, Moscow, Russia**

First Name _____ Last Name _____ Mr. Ms.

Title _____ Affiliation _____

Position _____ Address _____

City _____ State _____ Zip _____ Country _____

Telephone _____ Fax _____ E-mail _____

Accompanying persons _____

CONFERENCE FEES

Registration fee	450 Euro
Student's fee	150 Euro
Accompanied persons	250 Euro

Conference fee includes the Conference abstracts, coffee breaks, welcome reception and the Moscow sightseeing bus tour.

METHOD OF PAYMENT

Please transfer registration fees to the following **bank account** of the official tour operator of the Conference (IEF-Traveller):

Beneficiary	IEF-Traveller
Beneficiary's account	40702 978 9 0460 0000003
Beneficiary's bank	ALFA BANK Moscow
S.W.I.F.T.	ALFARUMM
Correspondent bank of beneficiary's bank	Commerzbank Frankfurt/Main
S.W.I.F.T.	COBA DE FF
Account at the correspondent bank	4008868945/01

Please fill in this form via the web site <http://www.ihed.ras.ru/sccs2005/registration>
or submit it by e-mail sccs2005@ihed.ras.ru or Fax +7 (095) 485 7990
before **May 1, 2005**.