

**SECOND ANNOUNCEMENT
OF ICHMS'2009**

XI INTERNATIONAL CONFERENCE
*"Hydrogen Materials Science &
Chemistry of Carbon Nanomaterials"*

Yalta, Crimea, UKRAINE, August 25 – 31, 2009

Dear Dr. Beata Lesiak-Orlowska,

The Organizing Committee invites You to attend the XI International Conference "Hydrogen Materials Science and Chemistry of Carbon Nanomaterials" and present your paper.

The Conference will be held in «Yalta-Intourist» Hotel Complex (50 Drazhinskogo str., Yalta 98600, Crimea, Ukraine) from the 25th to 31st of August, 2009. With its rich cultural heritage, impressive monuments and charming natural landscape, the city of Yalta is an ideal venue for a conference in August. The day of arrival and registration of participants is August 25, 2009 and the day of departure is August 31, 2009. Please, inform us beforehand about the day and time of your arrival to Simpheropol, because we want to organize the delivery from Simpheropol airport to the Yalta, ICHMS'2009 Conference location, or You may ask the personal delivery from the hotel managers by telephone: 38 (0654) 270-270, 270-260 or E-mail: info@hotel-yalta.com (see http://hotel-yalta.com/en/tourism_services/).

We advise to buy tickets to Crimea and back in advance in view of continued health resort season at the Black Sea during the ICHMS'2009 Conference date.

For all information and inquires relating to the ICHMS'2009 Conference, please, contact with:

Dr. Dmitriy V. Schur,
P.O. Box 195, Kiev-150,
03150 Ukraine
Tel./Fax: 38 (044) 424-0381
E-mail: shurzag@materials.kiev.ua
Web: <http://www.ichms.com.ua>

Please, address to the Program Committee, if You want to exhibit the displays, to inform and advertise the material about new scientific elaboration. You have to submit the material for consideration in a form of plotting board, experimental specimens, information brochures.

Waiting to have the pleasure to welcome You in Yalta next August, we remain at your disposal for any further information.

Sincerely yours,

Dr. Dmitriy V. Schur,
Program Committee Chairman of ICHMS'2009

IMPORTANT DATES FOR ICHMS'2009 CONFERENCE

- Deadline for Extended Abstracts Submission **May 01, 2009**
- Notification of Abstracts Acceptance May, 2009
- Deadline for early registration fee May 10, 2009
- Conference Preliminary Program July 30, 2009
- Arrival and Deadline for Registration with late dues August 25, 2009
- Deadline for Full Papers Submission August 25, 2009
- Opening Ceremony August 26, 2009
- Conference Working Days August 26-30, 2009
- Closing of Conference and Banquet August 30, 2009
- Participants Departure August 31, 2009

ORGANIZERS AND SPONSORS

- National Academy of Sciences, Ukraine
- Russian Academy of Sciences, Russia
- National Academy of Sciences, Azerbaijan
- Institute of Physical Chemistry of PAS, Poland
- International Association for Hydrogen Energy, USA
- Institute for Problems of Materials Science of NAS, Ukraine
- Institute of Hydrogen and Solar Energy, Ukraine
- Science and Technology Center in Ukraine
- Institute of Problems of Chemical Physics of RAS, Russia
- Ministry of Ukraine for Science and Education
- Association for Hydrogen Energy, Ukraine
- Clean Energy Research Institute, USA
- MER Corporation, USA
- Technical Center of NAS, Ukraine

INTERNATIONAL ADVISORY AND ORGANIZING COMMITTEE OF ICHMS'2009

Chairperson

Prof. B. Baranowski Institute of Physical Chemistry of PAS, Warsaw **Poland**
Honour Chairperson

Prof. T.N.Veziroglu President of International Association for Hydrogen Energy, Miami **USA**

Co-Chairpersons

Prof. A.P.Shpak Institute for Metal Physics of NAS, Kiev **Ukraine**
Prof. V.V.Skorokhod Institute for Problems of Materials Science of NAS, Kiev **Ukraine**
Prof. D.K. Ross University of Salford, Greater Manchester **UK**
Prof. V.V.Lunin Moscow State University, Moscow **Russia**
Prof. M. Kerimov Azerbaijan National Academy of Sciences, Baku **Azerbaijan**

Members

Prof. S.A. Firstov Institute for Problems of Materials Science of NAS, Kiev **Ukraine**
Prof. U.M.Mirsaidov Academy of Sciences of Tajikistan, Dushanbe **Tajikistan**
Prof. I.M. Astrelin National Technical University "Kiev Polytechnical Institute" **Ukraine**

ICHMS'2009 SECOND ANNOUNCEMENT

Prof. A.Switendick	ACS Associates, Albuquerque	USA
Prof. V.B. Molodkin	Institute for Metal Physics of NAS, Kiev	Ukraine
Prof. R.O.Loutfy	MER Corporation, Tucson	USA
Prof. V.I.Shapovalov	MER Corporation, Tucson	USA
Prof. A.P.Moravsky	MER Corporation, Tucson	USA
Prof. Z.A.Matysina	Dnepropetrovsk State University	Ukraine
Prof. E.M.Shpilevsky	Belarusian State University, Minsk	Belarus
Prof. P. Vajda	Laboratoire des Solides Irradies, Palaiseau cedex	France
Prof. V.A. Tatarenko	Institute for Metal Physics of NAS, Kiev	Ukraine
Prof. A. Hood	Science and Technology Center in Ukraine	USA
Prof. Z.X. Guo	University College London	UK
Prof. I.L. Shabalin	University of Salford, Greater Manchester	UK
Dr. A.L.Shilov	Institute of General and Inorganic Chemistry, Moscow	Russia
Dr. L.N. Padurets	Institute of General and Inorganic Chemistry, Moscow	Russia
Prof. Dr. J.Schoonman	Delft University of Technology, Delft	Netherlands
Prof. V.A. Yartys	Institute for Energy Technology, Kjeller	Norway
Prof. B.Ibrahimoglu	Gazi University, Department of Mechanical Engineering, Ankara	Turkey
Dr. Lidia Debowska	Institute of Physical Chemistry of PAS, Warsaw	Poland
Prof. N.F. Javadov	Institute of Petrochemical Processes NAS, Baku	Azerbaijan
Prof. D. Hui	University of New Orleans	USA
Prof. N. Koprinarov	Laboratory for Solar Energy and New Energy Sources of BAS, Sofia	Bulgaria
Prof. D.K.Slattery	Florida Solar Energy Center	USA
Prof. V.Sh.Shekhtman	Institute of Solid State Physics of RAS, Chernogolovka	Russia
Prof.S.K.Dolukhanyan	Institute of Chemical Physics, Yerevan	Armenia
Prof. M.M.Divizinyuk	Sevastopol National University of Nuclear Energy & Industry	Ukraine
Prof. P.Catania	International Energy Foundation	Canada
Dr. B.P.Tarasov	Institute of Problems of Chemical Physics of RAS, Chernogolovka	Russia
Dr. O.N. Efimov	Institute of Problems of Chemical Physics of RAS, Chernogolovka	Russia
Dr. Yu.M. Shul'ga	Institute of Problems of Chemical Physics of RAS, Chernogolovka	Russia
Prof. V.A. Somenkov	Russian Research Center "Kurchatov Institute", Moscow	Russia
Dr. V.E. Antonov	Institute of Solid State Physics of RAS, Chernogolovka	Russia
Prof. O.Savadogo	Ecole Polytechnique de Montreal	Canada
Dr. V.V.Kartuzov	Institute for Problems of Materials Science of NAS, Kiev	Ukraine
Prof. Yu.I. Prylutsky	Kiev National University, Kiev	Ukraine
Dr. A.P.Mukhachev	Plant "Zirconium", Dneprodzerzhinsk	Ukraine
Dr. A.P. Pomytkin	National Technical University "Kiev Polytechnical Institute"	Ukraine
Prof. V.N.Verbetsky	Moscow State University	Russia
Prof. C.Sholl	University of New England, Armidale	Australia
Prof. S.A. Beznosyuk	Altai State University, Barnaul	Russia
Dr. L. Grinberga	Institute of Solid State Physics of University of Latvia, Riga	Latvia
Dr. G. Spazzafumo	University of Cassino, Cassino	Italy
Dr. I. Száva	"Transilvania" University of Brasov	Romania
Dr. N. Kanellopoulos	National Center for Scientific Research "Demokritos", Athens	Greece
Prof. N. Muradov	Florida Solar Energy Center, University of Central Florida, Cocoa	USA
Dr. E.A. Samedov	Azerbaijan National Aerospace Agency, Baku	Azerbaijan
Prof. I. Khidirov	Institute of Nuclear Physics of AS of Uzbekistan, Tashkent	Uzbekistan
Prof. I.G. Ratishvili	E.Andronikashvili Institute of Physics, Tbilisi	Georgia
Prof. C.I. Turta	Institute of Chemistry of AS of Moldova, Chisinau	Moldova
Prof. M. Leonowicz	Warsaw University of Technology	Poland
Prof. D.N. Muraviev	Autonomous University of Barcelona	Spain
Prof. V.Z. Barsukov	Kiev National University of Technologies & Design	Ukraine
Prof. D.-Y. Wang	Taiwan Hydrogen Energy Association	Taiwan

PROGRAM COMMITTEE

Dr. D.V. Schur	- chairperson (Kiev, Ukraine)	
Prof. S.Yu. Zaginaichenko	- vice-chairperson (Kiev, Ukraine)	
Dr. Yu.M. Shul'ga	- vice-chairperson (Chernogolovka, Russia)	
Dr. B.P. Tarasov	- vice-chairperson (Chernogolovka, Russia)	
Mr. N.F. Javadov	- vice-chairperson (Baku, Azerbaijan)	
Mr. V.A. Bogolepov	Mrs. K.A. Lysenko	Mr. A.Yu. Vlasenko
Mrs. L.I. Kopylova	Mr. V.M. Adejev	Mrs. T.N. Golovchenko
Mrs. T.I. Shaposhnikova	Mr. A.F. Savenko	Mrs. L.O. Teslenko
Mr. A.D. Zolotarenko	Dr. K.A. Meleshevich	Mr. Al. D. Zolotarenko
Mr. A.G. Dubovoy	Mr. V.I. Tkachuk	Mr. An. D. Zolotarenko
Mr. V.K. Pishuk	Mrs. E.A. Kamenetskaya	Mrs. A.A. Rogozinskaya
Mrs. N.S. Anikina	Mr. N.I. Starchik	

CONFERENCE TOPICS

- 1 Metal Hydrides
 - 1.1 Preparation and Production of Metal Hydrides
 - 1.2 Physical and Chemical Properties of Metal Hydrides
 - 1.3 Utilization of Metal Hydrides
- 2 Carbon Nanostructural Materials
 - 2.1 Preparation and Production of Fullerenes and other Carbon Nanostructures
 - 2.2 Physical and Chemical Properties of Carbon Nanomaterials
 - 2.3 Hydrogen Storage in Nanostructural Carbon
 - 2.4 Other Applications of Carbon Nanomaterials
- 3 Fuel cells (Fundamentals, materials, validations and applications)
- 4 Hydrogen Energy and Environmental Problems
- 5 Carbon Nanomaterials in Clean Energy Hydrogen Systems

ABSTRACTS AND PROCEEDINGS OF ICHMS'2009 CONFERENCE

The authors should submit a two-page Extended Abstract with one or two key figures by mail and by E-mail: shurzag@materials.kiev.ua which clearly states: Objectives, Methods, Results and Conclusions. The abstracts must include full mailing address, telephone, fax and E-mail. The Book of Extended Abstracts of accepted contributions will be published for distribution to delegates at the conference in Yalta and registration fee for participants includes one copy of this Book of Extended Abstracts.

The Conference Proceedings, devoted to hydrogen topics, will be published as a special issue of International Journal of Hydrogen Energy (IJHE), the official journal of International Association for Hydrogen Energy. The selected papers with carbon orientation will be published in the Journal "Carbon". Three copies of full papers should be submitted to the Program Committee during registration in Yalta. Submitted full papers will be peer-reviewed.

Check below for the Instructions for authors for the preparation and submission of extended abstracts (Enclosure 1). Full details of submission and formats of full papers can be obtained from <http://authors.elsevier.com>.

LOCATION

Yalta is the recognized capital of Black Sea resorts of Crimea, the southernmost part of Ukraine, rich in natural and artificial tourist attractions. There are not many corners in the world which could be compared to Yalta in riches and a variety of curative forces of the nature. The caressing sea and sun, salubrious air of highlands forests, sources of mineral water promotes unforgettable rest in Yalta. Many creative people rush here not only for the health, but also for the inspiration.

The traditional international festivals of art, such as the Fireworks Festival, "Velvet Autumn", International Folklore Festival, "Crystal Dolphin", "Evenings of Chamber Music", International Pushkin and Chekhov Days, unveil in Yalta every year.

CONFERENCE VENUE AND FACILITIES

The conference sessions will take place in the conference-hall of “Yalta-Intourist” Hotel, where participants will be accommodated. The conference hall is fully equipped with computer display projectors. There will be a small computer center with access to the Internet.

ACCOMMODATION

The Hotel Complex “Yalta-Intourist” is situated in the beautiful Massandra park, facing the sea and is approximately 20 minutes walk from the city centre and Yalta’s embankment.

The accommodation of all conference delegates will be at the “Yalta” Hotel for the nights of August 25-31, 2009, except when participants shall request different dates. Please, plan your travel accordingly or inform us and hotel manager of alterations during the accommodation reservation.

The “Yalta” Hotel Complex offers 1149 excellent rooms for accommodation and the breakfast and lodging costs range from approximately 50 to 200 Eur per day depending on the type of room. All the rooms are comfortable and carefully furnished.

The Registration Desk, where advanced and on-site registrants may pick up their conference material shall operate at the main entrance of “Yalta” building.

The Special Rates on lodging and hotel services for ICHMS'2009 participants, who timely registered and payed the Registration fees before May 10, 2009, will be established and freezed in March, 2009 on the level of these prices on August, 2009 (the conference working days). These lodging costs will be stable only for these delegates and shall vary with inflation for those who didn't register before May 10, 2009.

CONFERENCE BADGE

Participants will receive a badge upon registration. Admission to the Conference & Exhibition area and/or to the social activities is possible only with a valid badge.

Badges must be worn throughout the ICHMS'2009 conference and at social activities.

Blue – Participants

Yellow – Accompanying persons

Red – Program Committee

ORAL AND POSTER PRESENTATIONS

ICHMS'2009, as the last years, will offer a high quality Scientific Programme with an exciting selection of invited speaker lectures featuring some of the world's leading experts in the field. Submitted abstracts will be selected for oral presentation and poster sessions. The authors are kindly asked to prepare their contributed works following the instructions below.

The plenary lectures will last 30 min. in total, of which the final 5 min. will be devoted to discussion. The duration of the oral contributions will be 20 min., including also 5 min. for questions. The speakers can use the auxiliary equipment, as computer with a computer projector.

The speakers will be provided with a radio-microphone and a laser pointer enabling free mobility.

Each poster session will last two hours and authors are expected to be present at his/her poster all the time according to the ICHMS'2009 Program. The poster board of the size of 1m wide and 1.2 m height will be available for each poster. Posters must be displayed no later than 2 p.m. on the day of the presentation, and must be removed the next day before 12.00 noon.

LANGUAGE

The working languages of ICHMS'2009 Conference are English and Russian and all papers should be prepared in English.

Scientists from abroad can give a lecture in English, lectures of CIS researchers can be delivered in Russian. The simultaneous interpretation between two languages and translation services will be provided during the ICHMS'2009 Conference.

COMPETITION OF PRESENTATIONS

The competition on the best presentations will be conducted in three areas: a) oral, b) poster, c) among young participants (younger than 30 years). Taking into consideration the novelty of presented data, urgency, originality of brilliant idea, manner of information presenting and design, the special prizes will be presented to winners. It is expected that three victors in each area will be recorded and they also will receive the ICHMS diploma.

SOCIAL PROGRAMMES

We are pleased to offer evening programmes (welcome reception, banquet) and several exciting optional tours to all ICHMS'2009 participants and accompanying persons. Please, kindly contact the Registration Desk for further information and tickets.

A number of touring opportunities will be offered in and around Yalta district. Various excursions over Crimea by land and sea (to the Genoese fortress, the Alupka Palace, the Feodosia city, the Livadiya Palace, the Crimean Great canyon, the factory of sparkling wines "Novy Svet", "Imperial Beach", the Ai-Petri mount (1233 m) by cableway and other historical monuments and nature) will be provided. You will see the picturesque tops and slopes of seaboard main mountain ridge in Crimea with abruptly precipitous rocks to sea, the charming nature with exotic, extraordinary beauty, subtropical plants, crystal-clear and transparent - blue sea and gold beaches and also interesting memorials of the antiquities.

CLIMATE AND TEMPERATURE

The climate of the Crimea's South Shore is subtropical, making Crimea's beaches a prime vacation destination for millions of Ukrainians and Russians and growing numbers of foreigners each year. Health resorts abound on the peninsula, which is famous for its mineral waters as well as wines. There are 276 sunny days in a year. The swimming season makes 149 days in a year.

In consequence of Crimea's climate, the end of August is still summer with excellent weather (well usually in August). The average temperature is 22-30°C during the day and 20-22°C at night. The humidity is rather low, rains are rare.

The Black Sea is not as warm as some seas, but the average seawater temperature reaches 22-24°C during summer months.

TRANSPORTATION

Scheduled and charter flights are performed from "Simferopol" International Airport (<http://www.airport.crimea.ua/en/home.htm>) to more than 70 airports of Ukraine, CIS and other countries. Delegate can easily reach Simferopol (SIP) by plane with direct flights from Frankfurt, Istanbul, Moscow, Tel-Aviv, Tashkent and Yerevan. Numerous direct flights from Kiev (Borispol) are also available (<http://www.airport-borispol.kiev.ua>). Some of data about international flights timetable, routes, prices may be found at "Ukraine International Airlines" website: <http://www.ukraine-international.com>. Simferopol may also be reached by train from Kiev (takes approx 15 hours). Yalta is 83 km from Simferopol. Although it may be reached by regular bus or taxi from either airport or railway station, we URGENTLY recommend that you let the LOC and manager know your itinerary in order to arrange group transportation from Simferopol to the conference site.

T

Abstract Guidelines for Authors Contributing to the Conference

Lysenko K.A., Golovchenko T.N.*, Vlasenko A.Yu.⁽¹⁾

Institute for Problems of Materials Science, Ukraine,
Krzhizhanovsky str. 3, Kiev, 03142 Ukraine

⁽¹⁾ Institute of Hydrogen and Solar Energy, P.O.Box 195, Kiev, 03150 Ukraine

*Fax: 38 (044) 424 0381

E-mail: shurzag@materials.kiev.ua.

INTRODUCTION

The ICHMS'2009 Abstracts Book will consist of two-page Extended Abstracts. Extended Abstracts are to be divided into sections and subsections.

RESULTS AND DISCUSSION

The abstract must be type written clearly and accurately, using a good quality laser. The text is to be single-line space to allow maximum information and typed using a standard typeface Times New Roman, on one side only of 21.5cm×28cm (8.5×11in.), good quality, white bond paper. Each page has a two-column format.

The first line is the paper title (spanning two columns) and it should be of size 14 with NONcapital "bold" typeset.

The second line is blank.

The third line is the name of the authors in bold face, fond size 12, centered. Please underline the name of the presenter, otherwise the communicating author is assumed to be the presenter. Also asterisk the author to whom correspondence should be addressed and give Fax and E-mail of this author.

The fourth line is the postal mailing address, preferably written only in one line, non-bold, fond size 12, also centered.

The rest of the text is also in fond size 11. Please keep approx. 1.9 cm (3/4 in.) margin on all edges. All typed pages must not be numbered consecutively, beginning with the title page.

Abstract must be full of results, thus, please include the figures as many as possible in these two pages.

Participants wishing to contribute to the ICHMS'2009 Conference are kindly requested to send two copies of an abstract of two pages by postal mail and by E-mail to the Chairman of the conference:

Dr. Dmitriy V. Schur,

P.O.Box 195, Kiev-150,

03150 Ukraine

E-mail: shurzag@materials.kiev.ua

CONCLUSIONS

The extended abstract must be submitted by **May 01, 2009.**

REFERENCES

1. Schug CA. Operational characteristics of high-pressure, high-efficiency water-hydrogen electrolysis. Int J Hydrogen Energy 1998;23(12):1113-1120.
2. Strehlow RA. Fundamentals of combustion. Scranton, PA: International Textbook Company, 1968.
3. Sarler B, Mavko B, Kuhn G. Solution of solid-liquid phase change problems by the boundary element method. In: Wrobel LC, Brebbia CA, editors. Computational methods for free and moving boundary problems. Oxford: Elsevier Science, 1993. p. 373-398.