FOURTH INTERNATIONAL KHARKOV SYMPOSIUM "PHYSICS AND ENGINEERING OF MILLIMETER AND SUBMILLIMETER WAVES"

Kharkov, Ukraine, June 4-9, 2001

Second Announcement and Call for Papers

Organized by:

The National Academy of Sciences of Ukraine Scientific Council
on the problem
"Radio Physics and Microwave Electronics"
in cooperation with IRE NASU, IRA NASU, KNU,
IEEE AP/MTT/ED/AES/GRS/NPS-Societies Joint Chapters of Ukraine,

Ukrainian URSI Committee, Young Scientists Council of IRE NASU

Sponsored/Technically Sponsored by: URSI, IEEE ED Society

INTRODUCTION

The 4th International Kharkov Symposium "Physics and Engineering of Millimeter and SubMillimeter Waves" (MSMW'2001) will be organized in Kharkov, Ukraine on June 4 -9, 2001 by The National Academy of Sciences of Ukraine Scientific Council on the problem "Radio Physics and Microwave Electronics" in cooperation with the Usikov Institute for Radiophysics and Electronics of the National Academy of Sciences of Ukraine (IRE NASU - has always been one of the major research organizations in this field. It was established in 1955 with the main task of developing MM and SubMM wave hotplasma diagnostics systems for *Tokamak* controlled fusion machines; later it was involved in the development of MM-wave radar and in-orbit communication systems), Institute of Radio Astronomy of the National Academy of Sciences of Ukraine (IRA NASU - branched off IRE in 1985, headed research in MM wave radio astronomy), Kharkov National University (KNU), IEEE AP/ED/MTT/AES-SS Joint Chapters of Ukraine, Ukrainian URSI Committee. MSMW symposia were held several times in Kharkov since 1978 as a regular Former Soviet Union (FSU) meeting on MM and SUBMM waves and applications. It became an major event in this area and since 1991 it has been well known as the International Kharkov Symposium.

SCOPE AND SUBJECT

- 1. Problems of the electromagnetic theory
- 2. Numerical simulation
- 3. Atomic functions, wavelets, fractals
- 4. Wave processes in finite-size semiconductors and solid-state structures
- 5. High temperature superconductors
- 6. MM and SubMM wave propagation and scattering
- 7. MM and SubMM wave radio astronomy
- 8. MM and SubMM wave spectroscopy
- 9. Vacuum electronics
- 10. Gyrotron and free electron lasers
- 11. MM and SubMM wave solid state devices
- 12. Quasioptical techniques

- 13. MM and SubMM wave integrated circuits and devices
- 14. MM and SubMM wave antennas
- 15. MM and SubMM wave radar
- 16. MM and SubMM wave remote sensing
- 17. MM and SubMM wave communications
- 18. Scientific and industrial applications of MM and SubMM waves (fusion plasma diagnostics, control of technological processes, automotive systems)
- 19. New materials
- 20. Electromagnetic metrology
- 21. Biomedical applications of MM and SubMM waves

VENUE AND LOCATION

MSMW'2001 will be held at the Kharkov National University, the third oldest (since 1805) and highly reputed university in natural sciences in the FSU. Kharkov city is the second largest city in Ukraine with population of about 2 mln, located in the North-East of the country, with a large research community and long-standing educational traditions.

Transportation Connections

Thrice a week, Kharkov can be reached by a direct flight of Austrian Airlines from Vienna and Istanbul. Many international connections are available to Kiev, with daily flights from Amsterdam, Budapest, Frankfurt, Istanbul, London, Paris, Prague, Tel Aviv, Vienna and Zurich. This is to be followed by a one-hour flight or an overnight train to Kharkov. Please, note that the Austrian Airlines are supposed to serve as authorized carrier for the Symposium that entails a discount for the corresponding airfares. As it is hard to book the tickets for a domestic flight from outside, for the interested participants the organizers will do this upon an advance notification. Train tickets from Kiev to Kharkov and back will be also booked via the organizers, and those who take this way will be accompanied by the English-speaking volunteers. It is possible to reach Kharkov via Moscow, but in such a case a Russian double-transit visa should be obtained. Every possible assistance will be provided as long as any problems may arise.

Young Scientist Travel Grants

Young Scientist Travel Grants: similarly to the previous MSMW'2001 conferences, modest travel grants are expected to help young scientists from FSU and Eastern Europe countries to attend the Kharkov meeting. The number and amount of grants will depend on the success of the on-going search for sponsors.

LANGUAGE

The official working language of the MSMW'2001 is English, which will be used for all printed materials, presentations and discussions.

PROGRAM

The scientific program of the MSMW'2001 will consist of invited papers, contributed oral and poster presentation. Besides, a series of review lectures are expected to be given by leading scientists for students and young researches.

REGISTRATION FEE

The registration fee for the non-FSU participants is US\$ 250 and covers the cost of the Symposium services, the preparation for documentation, proceedings and refreshments during the MSMW'2001. The fee is to be paid on place. Additional fees will be payable for accommodation and travel planned for the first day. The registration payment forms with the details of payment will be sent to the MSMW'2001 participants together with the official invitation.

Registration

All prospective Symposium participants are requested to complete and return the pre-registration form with the 3-page paper by regular or electronic mail before March 1,2001. The official invitation will be sent in April, 2001 after evaluation of Papers by the Program Committee.

ACCOMMODATIONS

The Symposium participants may be accommodated in the hotels of Kharkov: "Kharkov", "Mir", "National" and any other hotel at their choice. Costs for non-FSU participants will be about US\$ 40-150 per night for a single room and US\$ 50-200 for a double room.

Call for Papers

By the decision of the Program Committee, consideration of the post-deadline abstracts will be continued. Authors are asked to submit two copies of 3-page camera ready manuscript, including the text, references, figures, graphs and diagrams. Electronic submission is preferably. All Papers must be written in English. Since the PROCEEDINGS will be prepared directly from the Papers supplied by authors, it is important that authors prepare camera-ready copies which are identical in format and needs no further editing. Therefore, careful preparation is required. Use the laser printer only. Please note that the number of papers submitted by one principal author (the first name in the list of authors) is limited to three. Detailed information is contained in the attached sample form and on the MSMW'2000 Internet home page in the section "Instruction for Authors": http://www.ire.kharkov.ua/MSMW2001/msmw.htm and mirrors: http://ire.hl.ru; http://ire.u2.org. As the IEEE technical co-sponsorship is expected, all the authors are requested to fill the IEEE Copyright form. This form is to be submitted together with the paper.

DEADLINES

1-page abstracts - December 1, 2000
(post-deadline abstract submissions will be considered)
Camera-ready 3-page manuscript March 1, 2001
Notification of acceptance - March 15, 2001
Registration fee - June 4, 2001

Address: MSMW'2001, c/o IRE NASU, 12 Ac. Proskura St, Kharkov, 61085, Ukraine Ph/Fax: +380 (572) 441105 E-mail: msmw2001@ire.kharkov.ua

http://www.ire.kharkov.ua/MSMW2001/msmw.htm Mirrors: http://ire.h1.ru; http://ire.u2.org

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INTERNATIONAL SEMINAR

DAY on DIFFRACTION St.Petersburg, Russia



in NEW MILLENNIUM May 29 - 31, 2001

ORGANIZED BY

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Faculty of Physics of St. Petersburg University Euler International Mathematical Institute

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SESSIONS TO BE ORGANIZED

MATHEMATICAL ASPECTS OF WAVE PROPAGATION

NEW DIRECTIONS IN ASYMPTOTIC TECHNIQUES SCATTERING AND DIFFRACTION UNDERWATER ACOUSTICS WAVES IN ELASTIC MEDIA NONLINEAR PHENOMENA INVERSE PROBLEMS
EM ANALYSIS
FLUID DYNAMICS
PLATES, SHELLS AND VIBRATION
NON-STATIONARY PHENOMENA

Contributions concerning various nature wave phenomena are highly encouraged!

Working language is English

Registration fee 150 USD

IMPORTANT DEADLINES

Papers submissions Acceptance of papers Registration Feb. 1, 2001 March 1, 2001 April 1, 2001

WAYS OF SUBMISSION

1. Electronic submission (mostly preferred!)

grikurov@mph.phys.spbu.ru

2. FAX: +7-812-42B-7240

3. Hard copies to be addressed:

Dept. Math.& Comp. Phys., Inst. on Physics, UJ'yanovskaya 1 198504 Petrodyoretz, Russia

We expect to receive camera-ready abstract limited, if possible, by one A4 page of 10pt font size TeX and Word documents are accepted

PUBLICATIONS: Booklet of abstracts of all papers accepted for presentation will be available at the Seminar. Full manuscripts will be invited for the peer selection to the *Proceedings* to be issued Fall 2001.

Updated information and on-line preregistration available via URL http://mph.phys.spbu.ru/DD