

NATIONAL SEMINAR ON FERROELECTRICS & DIELECTRICS (NSFD-XVI)

2-4 December, 2010



ORGANIZED BY

*Department of Pure & Applied Physics
Guru Ghasidas Vishwavidyalaya
Bilaspur – 495009 (C. G.), India*

ABOUT THE UNIVERSITY:

Guru Ghasidas Vishwavidyalaya, (GGV) is a Central University of India, established under Central Universities Act 2009, No. 25 of 2009 on 15 June 2009. Guru Ghasidas University (GGU) was established as a state university by an Act of the M. P. University Act 1973 in June 16, 1983. GGV is an active member of the Association of Indian Universities and Association of Commonwealth Universities. The National Assessment & Accreditation Council (NAAC) has accredited the University as B⁺. The University is a residential cum affiliating institution, having 5000 plus students enrolled on campus. The university covers almost the total spectrum of higher education through its 29 university teaching departments and about 121 affiliated colleges offering various courses in the area of Physical Sciences, Life Sciences, Social Sciences, Arts, Management & Commerce, Engineering & Technology, Law and natural sciences.

ABOUT THE DEPARTMENT:

Department of Pure and Applied Physics, established in the year of 1995, is one of the premier departments of the University. The department is inducted under FIST program of DST Govt. of India. It has been actively engaged in teaching & research since its inception and has active collocation with many leading Indian and foreign laboratories. During its 15 years of existence, it has established itself as a well known UG/PG teaching/research center in this region. We offer PG level Physics and Electronics courses with specializations in Condensed Matter Physics, Materials Science and Nuclear Physics as well as 5 years integrated UG/PG program in Physics and Electronics. For these programs department has modern laboratories facility. We also offer Integrated M. Phil. /Ph. D. program in Physics and direct Ph.D. Program in Physics and Electronics through all India basis entrance test. It is also a leading centre of research in the field of Condensed Matter Physics and Materials Science. The department has well equipped materials preparation and, characterization laboratory. The major facilities include X-ray diffractometer, Atomic force microscope, SEM, Impedance Analyzer, P-E loop tracer, UV-Vis spectrophotometer, FTIR and Differential scanning calorimeter. We also have good facilities for thin film deposition viz. vacuum coating thermal evaporation unit, chemical bath deposition method, dip coating unit and spin coating unit as well as chemical routes synthesis of nano-particle and nano-composites. Department is also in the final stage of setting up 3.0 MeV accelerator facility. Many prestigious national level symposium, conferences, seminars are regularly organized by the department including DAE solid state physics symposium (2000) and International Conference of International Academy of Physical Sciences in (2007).

ABOUT THE SEMINAR:

National Seminar on Ferroelectrics & Dielectrics is a prestigious area. This is the XVIth seminar in the series. The earlier six seminars in the series were organized by NPL New Delhi, I. I. T.

Madras, I. I. Sc. Bangalore, University of Delhi, I. I. T. Kharagpur and Thapar University Patiala. The seminar will cover recent developments of Physics, technology and applications of ferroelectrics & Dielectrics materials. Ferroelectric and Dielectric systems are technologically potential and practically relevant area of R & D from both the fundamental and applications point of view. Its importance is increasing with every bit of technological advancement with objectives of commercialization. Ever since its emergence during world war II, the market potential of these materials is increasing rapidly for a wide variety of next generation of smart/intelligent devices, i.e. memories, transducers, ultrasonic motors, MEMS and now NEMS are just a few amongst an endless list. The aim of this conference is to hold an open deliberation on the state of art development in this important area of R & D, a first hand assessment of the existing challenges with an objective to arrive at perspective solution and define future strategy. It will provide a proper forum where senior academicians/ experts and young researchers/scholars would get ample opportunity to interact and discuss the recent trends in the materials and technological developments in the subject areas of their interest so as to have a fusion of viable ideas to be realized in future as a gift to the youngsters by their expert predecessors.

BROAD AREAS:

- Ferroelectrics
- Pyroelectrics and Piezoelectrics
- High-k Dielectrics
- Capacitors and Super capacitors
- Multiferroics and Magneto electric Materials
- Bulk and Thin Film Materials Processing Technology
- Sensors, Actuators and Transducers
- NEMS and MEMS
- Theoretical/Computational Aspects
- Ferroelectric and Alternative Memories
- Ferroelectric Liquid Crystals
- Polymers & Composites
- Piezoelectric Biomaterials
- Nanostructured Materials
- Nanocomposites
- Nano Thin Films & Devices based on Multiferroics

SUBMISSION OF PAPERS:

Participants intending to present papers in the seminar should submit abstract not exceeding 200 words to the convener by **31st October, 2010**. The abstract should clearly state the title of the paper and the name(s) of the author(s) with full address of correspondence. The abstract is to be submitted in soft copy to the email address: nsfd16@gmail.com. The manuscript of the full paper not exceeding 8 pages including figures and tables are also to be submitted to the convener in soft copy (in MS word

with 1.5 spacing, font Times New Roman, size 12. paper A4, single column, margin 2" left, 1" right, 2" top and 1" bottom; for title: font size 14 bold all Caps).

IMPORTANT DATES:

Abstract Submission	: 31 st October, 2010
Abstract Acceptance	: 7 th November, 2010
Manuscript Submission	: 15 th November, 2010
Accommodation Booking	: 15 th November, 2010

REGISTRATION FEE:

Delegates from Industries	: Rs. 2500.00
Delegates from Institutions	: Rs. 1500.00
Students	: Rs. 750.00

ADVERTISEMNET IN THE SOUVENIR:

Back cover (Color)	: Rs. 10000/-
Front inside (Color)	: Rs. 7500/-
Back inside (Color)	: Rs. 5000/-
Full page (Color)	: Rs. 4000/-
Full page (B & W)	: Rs. 2500/-

LOCAL HOSPITALITY:

Limited accommodations are available in the University Guest House/Post Graduate Hostel on first come first serve basis. However, the accommodations can be arranged on the request of candidates in hotels. The rates per day are as under
Hotels: AC-Rs.1500/-; Non-AC: Rs. 800/-
Guest House: AC- Rs. 200/- , Non-AC: Rs 125/-
Hostel: Rs. 100/-

FINANCIAL ASSISTANCE:

Financial Assistance will be provided to limited number of young scientist/research scholars Requests along with a certificate from the parent institution, clearly stating that the participant has no access to funds from any other source, must be sent up to 30th November, 2010.

ADVISORY COMMITTEE:

Dr. T. Ramasami, DST, New Delhi
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Organizing Committee:

Patron

Dr. Lakshman Chaturvedi
Vice-Chancellor

Convener

Prof. P. K. Bajpai

Members:

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Mr. K. N. Singh
Mr. Raman Mishra
Mr. Rakesh Kurre

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**NATIONAL SEMINAR ON
FERROELECTRICS & DIELECTRICS
(NSFD- XVI)
2-4 December, 2010
REGISTRATION FORM**

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Sex: Male/Female

Designation:.....

Organization.....

Nationality.....

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Do you intend to present a Paper: Yes/No

Registration Fee: Rs.....

Draft No.....Dated.....

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Accommodation required: Yes/No

Financial Assistance required: Yes/No

Date

Signature

To
Prof. P.K. Bajpai
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