

LECTURE WORKSHOP

ON

THIN FILMS & NANOMATERIALS: PRINCIPLES AND APPLICATIONS

(26 – 28 March, 2018)

Organized by

Department of Physics, Tripura University, Suryamaninagar

Convener

Prof. E.S. Raja Gopal

Indian Institute of Science, Bangalore

Coordinator

Dr. Syed Arshad Hussain

Tripura University, Suryamaninagar

Sponsors

Indian Academy of Sciences, Bangalore

Indian National Science Academy, New Delhi

The National Academy of Sciences, Allahabad

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BACKGROUND

Thin films and Nanomaterials are interdisciplinary field of research describing the synthesis and properties of matter at atomic or molecular scales for practical applications towards various areas of science and engineering. Without the helping hand of smart materials at nano to micro dimensions, the modern life can't

be imagined. Development of most of the electronic gadgets largely depends on the progress of materials science research. Scientists are now giving efforts to realize devices with high speed and lower dimensions. Increased amount of research efforts in the area of Thin films and Nanomaterials can materialize this.

Thin films and Nanomaterials have vast technological applications ranging from opto-electronic devices to various sensors. Researchers from almost all areas of

science viz. Physics, Chemistry, Biology as well as Engineering are working in this emerging area of research.

Objectives

The proposed three days' workshop in the area of Thin films and Nanomaterials will offer a platform to the postgraduate students and young researchers of this region to come together where renowned Scientists working in this area will highlight the basic principle, synthesis process, properties as well the applications with respect to the recent research trends in national and international levels. Tripura, being a remote landlocked state of North East India, this type of workshop will create an opportunity to the young

minds of these regions to interact with the established/ renowned scientists in this field. This will encourage and motivate them towards research and developments in future. As a whole, this workshop will help us to exchange our ideas, knowledge and potentials for the development of the subject and also to perform better research in national and international levels. We also believe that this surely open a new window for collaborative research for the researchers working in this region under the guidance of resource persons who will attend the workshop.

In the context of the above, we are organizing a three-day workshop at the Tripura University, Suryamaninagar, Tripura, which is a central university, on "Thin Films & Nanomaterials: Principles and Applications" during 26th to 28th March, 2018. These short-duration (2-3 days) lecture workshops are conducted under the aegis of the Joint Academies of Sciences: Indian Academy of Sciences, Bangalore, Indian National Science Academy, New Delhi, and The National Academy of Sciences, Allahabad under their 'Science Academies Education Programmes. These workshops are meant for the benefit of teachers, research scholars and students at the undergraduate, post-graduate and research levels. There will be no registration fee but participants will have to take care of their stay. Participants must register themselves by sending duly forwarded and signed registration form on or before 28th February, 2018 by email at insaworkshop@gmail.com. The Workshop will provide lunches and teas during the three days.

TRIPURA UNIVERSITY

Tripura University formally came into existence on 2nd October, 1987 on the birth Anniversary of Mahatma Gandhi. After a lapse of 20 years, during which the university had the status of a state university, was converted into a Central University on 2nd July, 2007, following the enactment of Tripura University Act, 2006, by the Indian Parliament. During the last five years, the university has grown; its departments and faculty are strengthened and enlarged, it has developed substantial infrastructure, has been able to attract good faculty and students. Today, the university has 36 departments, 8 Centres with a strength of more than 200 Faculty members. The Vice-Chancellor, the teaching and non-teaching staffs as well as the students of the University are determined to develop the University into a centre of excellence with well equipped laboratories and library, excellent faculties and first class facilities in the campus for the students and teachers alike. <http://www.tripurauniv.in/>

RESOURCE PERSONS

- ❖ **Dr. Arindam Ghosh**, F.A.Sc., F.N.A., F.N.A.Sc., etc.,
Bhatnagar Prize Awardee, Swarnajayanthi Fellow etc & Professor,
Department of Physics, Indian Institute of Science, Bangalore

- ❖ **Dr. Amlan Jyoti Pal**, F.A.Sc., F.N.A., F.N.A.Sc., etc.,
J.C.Bose Natl. Fellow & Sr. Professor,
Department of Solid State Physics, IACS, Kolkata

- ❖ **Dr. Ms. Priya Mahadevan**, F.A.Sc., etc.,
S.N.Bose Natl. Center for Basic Sciences, Kolkata

- ❖ **Dr. Debajyoti Bhattacharjee**, Professor and Head
Department of Physics, Tripura University, Suryamaninagar, Tripura

- ❖ **Dr. B. Indrajit Sharma**, Professor,
Physics Department, Assam University, Silchar, Assam

- ❖ LOCAL COORDINATOR
Dr. Syed Arshad Hussain, Assistant Professor,
Department of Physics, Tripura University, Suryamaninagar, Tripura

- ❖ CONVENER
Prof. E.S.RAJA GOPAL, F.A.Sc., F.N.A., F.N.A.Sc., etc.
Bhatnagar Prize Awardee, Formerly Director, NPL, New Delhi
INSA Emeritus Scientist, Department of Physics, IISc, Bangalore

AGARTALA

Agartala is the Capital of Indian state of Tripura and also is the second largest city in North-east India after Guwahati, both in municipal area and population. Agartala is situated in a plain along the Haora River, though the city also extends to the low-lying hills on its northern parts and is located 2 km from the Bangladesh Border. It can be reached by train from Silchar, Guwahati, Kolkata, Delhi, Bangalore via Bhubaneswar, by road from Silchar, Guwahati, Shilong, Aizawl, Imphal, Kolkata via Dhaka (Bangladesh) and by air from Bangalore, Chennai, Coimbatore, Delhi, Guwahati, Hyderabad, Imphal, Kolkata, Visakhapatnam, Kochi, Pune.

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On
Thin Films & Nanomaterials: Principles and Applications
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REGISTRATION FORM FORMAT

(To be sent as by Email attachment to insaworkshop@gmail.com on or before Feb., 28, 2018)

1. Name:
2. Affiliation:
3. Designation:
4. Address:
5. Telephone / Mobile:
6. Email:

Seal and Signature of the HOD/Supervisor

Signature of the Applicant