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### Indian Society of Analytical Scientists (ISAS) Delhi Chapter

**AND** 

### Department of Chemistry Jamia Hamdard, New Delhi

**Organize** 

## One Day Seminar On

# SYNTHESES AND CHARACTERIZATION OF NANOMATERIALS

17<sup>th</sup> November 2007

at

Convention Centre Jamia Hamdard (Hamdard University) Hamdard Nagar New Delhi - 110062

#### **LOCAL ORGANIZING COMMITTEE**

Dr. S. Ahmed, VC, Jamia Hamdard - Chairman

Dr. M.S. Alam, Jamia Hamdard - Convener

Prof. S.A. Khan, Jamia Hamdard

Dr. K. Javed, Jamia Hamdard

Dr. H. Hamid, Jamia Hamdard

Dr. A.S. Sarpal, IOC, R&D

Dr. G.S. Kapur, IOC, R&D

Dr. J. Christopher, IOC, R&D (Treasurer)

#### ADDRESS FOR CORRESPONDENCE

Dr. M.S. Alam
Head
Department of Chemistry
Jamia Hamdard
Hamdard Nagar
New Delhi – 110062
Ph: 011-26059688, Ext 5555
Fax: 011 –26059666
msalam@jamiahamdard.ac.in

Dr. A.S. Sarpal Secretary, ISAS-DC C/O Indian Oil R&D Centre Sector-13, Faridabad Haryana-121 007 Ph: +91-129-2287251, Fax: +91-129-2286221 sarpalas@iocrd.co.in kapurgs@iocrd.co.in

Website: www.isasdelhi.org

#### AIMS AND OBJECTIVES

Nanotechnology is perhaps today's most advanced syntheses and manufacturing technology. It is the design, characterization, production, and applications of structures, devices and systems by controlling the shape and size at the nanometer scale. With growing interest on nanotechnology, nanomaterials have attracted great interest because of unique physical, electronic, and magnetic properties resulting from their quantum size. Since at the nanoscale, the properties of materials differ in fundamental and valuable ways from the properties of individual atoms and molecules or bulk matter, nanotechnology has wide-ranging applications in different fields such as electronics, pharmaceutics, material, polymer, chemical, paint, cosmetics and petroleum industry. It is so rapidly emerging that most thinkers and scientists working in this field predict that nano would change our world in the next 100 years more than all the changes that we have seen in the last half of a millennium.

Indian Society of Analytical Scientists – Delhi Chapter (ISAS-DC) with its headquarter at IndianOil, R&D Centre, Faridabad, is a multidisciplinary body whose major functions are to organize seminars/workshops on various topics covering the role of analytical sciences in various disciplines. The society provides a common platform for Analytical Scientists to exchange ideas, help them to keep abreast with the latest developments in related fields, thus promoting growth of analytical sciences in the country. Since its inception in 1992, Delhi Chapter has organized 35 technical Seminars on various contemporary topics. Judging the outstanding achievements over the years, the Delhi Chapter has been awarded the Best chapter award three times (1998, 2005 and 2007) by ISAS-HQ, Mumbai.

Analytical techniques play significant role in the Syntheses, Characterization and Structure elucidation of nanophases, and development of nanomaterials for useful applications. The present seminar on "SYNTHESES AND CHARACTERIZATION OF NANOMATERIALS" will address the syntheses aspects of nanomaterials and applications of various analytical techniques for the characterization of nanomaterials, which are being used in various fields like electronic, polymer, catalyst, medicine etc.

#### **SCOPE**

Focus of the seminar will be on the following:

TOPICS
Catalysts
Polymers
Pharmaceutical
Petrochemicals
Electronics
Nanometrology

TECHNIQUES
Electron Microscope Techniques
(TEM, SEM, AFM)
XRD, ESCA, NMR

Material property measurements

Eminent speakers from BARC, NPL Delhi, IIT-Delhi and JEOL, and Instrument suppliers will deliver lectures on various topics.

#### **PROGRAMME**

Registration : 0830 - 0930 hrs

Inaugural Session : 0930 - 1130 hrs

Technical Session-I : 1200 to 1300 hrs

Technical Session-II : 1400 to 1600 hrs

Industry-Academia Interaction : 1600 – 1700 hrs

GBM of ISAS-HQ : 1700 – 1800 hrs

#### **REGISTRATION FEE**

ISAS Life Members: Rs. 300/-

Non-members: Rs. 700/-

(which includes life member fee)

M.Sc. Students/Research scholars\*: Rs. 150/-(\*Limited registrations, first-cum-first serve)

Your advance registration is must to avoid last minute disappointment.

(NO ON-THE-SPOT REGISTRATION)

Please pre-register with

Dr. A.S. Sarpal at sarpalas@iocrd.co.in

Dr. G S Kapur at kapurgs@iocrd.co.in

Dr. M.S. Alam at msalam@ jamiahamdard.ac.in

"All ISAS-DC members are requested to attend the GBM meeting on 17-11-2007 at 1700 hrs at the Convention Centre, Jamia Hamdard, New Delhi"