BHAKTI AT BARC: SCIENTISTS HONOURED


For further details one may contact:

Dr. T.G. Srinivasan
Convener, LOC, SGPAC-2009
Fuel Chemistry Division
IGCAR, Kalpakkam-603 102
Tamilnadu, India
E-mail : sgpac2009@gmail.com;
tgs@barc.gov.in

Dr. V. Jayaraman
Secretary, LOC, SGPAC-2009
Liquid Metals and Structural Chemistry Division
IGCAR, Kalpakkam-603 102
Tamilnadu, India
E-mail : sgpac2009@gmail.com;
vjam@barc.gov.in

Dr. N. Kumar
Secretary, Technical Committee, SGPAC-2009
Fuel Chemistry Division
BARC, Trombay, Mumbai - 400 085, India
E-mail : sgpac2009@gmail.com;
nkumar@barc.gov.in

FORTHCOMING CONFERENCE

International Conference on Sol-Gel Processes for Advanced Ceramics (SGPAC-2009)

The above conference has been organized by IGCAR, the Materials Research Society of India (MRSI) Kalpakkam Chapter and the Indian Ceramic Society (InCerS) Tamilnadu Chapter. Sponsored by BRNS, SGPAC-2009 will be held at Kalpakkam, from Oct. 11-14, 2009.

The Technical Programme includes plenary and invited talks as well as oral and poster presentations, on the following topics:

i) Sensor materials; ii) Glasses and glass fibers; iii) Coatings and thin films; iv) Bioceramics; v) Nuclear ceramics; vi) Aerogels and porous ceramics; vii) Engineering ceramics; viii) Nanoceramics; ix) Ceramic fibres; x) Process design & modeling

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Mr. Manoj Mohapatra did his M.Sc. (Inorganic Chemistry) from Utkal University and joined the Chemistry discipline of 46th batch of BARC Training School. Subsequently he joined the Spectroscopy Section of Radiochemistry Division. His main area of research is spectroscopic investigation of radiation induced changes in materials, used for nuclear waste storage. He is also actively involved in the chemical quality control of nuclear fuels and strategic materials and its related activities.

Dr. R.M. Kadam joined the Radiochemistry Division, BARC in 1984, after completing M.Sc. from Mumbai University in Organic Chemistry and graduating from 27th batch of BARC Training School. He completed his PhD from the same university in 1992 and did his Post Doctoral research at University of Linshoping, Sweden under BOYSCAST fellowship. He is an expert in the field of paramagnetic resonance and its related phenomena. He has more than 100 peer reviewed journal publications to his credit. His current fields of interest include EPR investigations of radiation induced changes in glass matrices, molecular dynamics of free radical systems, EPR dosimetric investigations and ferromagnetism in various inorganic systems.

Dr. B.S. Tomar joined the Radiochemistry Division in 1982 after graduating from the 25th batch of BARC Training School in 1981. He is a recipient of the Homi Bhabha Prize for topping his batch. He obtained his Ph.D. degree from Mumbai University in 1990. As a Visiting Professor, he visited Technical University Delft, Netherlands during 2007-2008. His areas of interest include Nuclear Chemistry in general and Nuclear Fission, Nuclear reactions, Perturbed Angular
Correlation, Ion Beam Analysis and Speciation of actinides and fission products in particular. He is a Ph.D. guide of University of Mumbai as well as Professor of Homi Bhabha National Institute.

Dr. R.K. Mishra is actively associated with Process Control Laboratories of Waste Management Facilities, Trombay and engaged in providing analytical back up to different processes for management of radioactive wastes. His main area of research is development and characterization of various matrices, for conditioning of different types of wastes, generated from PHWRs, FBRs and AHWRS, long term evaluation of vitreous waste forms under simulated repositories conditions and structure elucidation of glasses by NMR, IR, Raman Spectroscopy and X-ray based techniques.

Mr. Kanwar Raj, Outstanding Scientist, is Head, Waste Management Division, BARC. He is an Engineering graduate with Honours from IIT, Roorkee in Chemical Engineering and is responsible for safe management of different types of radioactive wastes generated from DAE facilities at Trombay, Tarapur & Kalpakkam and spent radiation sources from all over the country.

Dr. C.P. Kaushik joined the Waste Management Division in 1985, after successful completion of 28th batch of BARC Training School. Presently he is shouldering the responsibility of Superintendent at Waste Management Facility, Trombay. He is engaged in development of matrices for treatment/conditioning of different types of radioactive wastes and its implementation on plant scale, for more than two decades. He is also responsible for characterization of waste and waste forms.
Dr. S.V. Godbole received M.Sc. (Physics) degree from Mumbai University in 1974. He joined the Radiochemistry Division, BARC in 1975. He obtained his PhD from Mumbai University in 1991 and did his Post Doctoral work at National Taiwan University in 2002. He is an expert in the field of quality control of nuclear materials and solid state spectroscopy. He is a recognized PhD guide in Physics for University of Mumbai and Homi Bhabha National Institute. Currently he is heading the Spectroscopy section of the Radiochemistry Division.

Dr. V.K. Manchanda, Outstanding Scientist, is heading the Radiochemistry Division of BARC since 2003 and is a member of Board of Chemical Studies and Professor of Chemistry at Homi Bhabha National Institute (HBNI). He is a member of the Advisory Boards of several international journals including “Radiochimica Acta” and “Solvent Extraction & Ion Exchange”. He is the Founder-President of Indian Association of Separation Scientists and Technologists (INASAT). His research interests include; radiation effects on borosilicate glasses, chemical quality control of nuclear fuels, thermodynamics and kinetics of complexes of macrocyclic ligands with lanthanides and actinides, design and synthesis of novel extractants of actinides relevant in the back end of the fuel cycle and speciation of actinides in aquatic environment. He has more than 200 publications in peer reviewed international journals.
Dr. Hirendra Nath Ghosh of Radiation & Photochemistry Division, BARC has been elected as the Fellow of National Academy of Science (F. N. A. Sc.), Allahabad in the year 2008, for his excellent contributions to ultrafast interfacial electron transfer dynamics, between molecular adsorbate and semiconductor nanostructured and quantum dot materials. Dr. Ghosh is an INSA Young Scientist Awardee in the year 1998 and was also awarded INSA A.K. Bose Memorial Award in the year 2000. Dr. Ghosh has also received APA-Prize for Young Scientist Award in the year 2004 from the Asian and Oceanian Photochemistry Association. His current activities focus on design and development of ultrafast mid-IR and terahertz spectrometer, charge transfer and carrier relaxation dynamics in quantum dot core-shell material and proton-coupled electron transfer reaction using ultrafast spectroscopic techniques.

Dr. (Ms.) Jyotirmayee Mohanty of Radiation & Photochemistry Division, BARC has been conferred the prestigious “Distinguished Lectureship Award” by the Chemical Society of Japan, in recognition of her significant contribution towards Supramolecular Photochemistry. This Award was presented to her by the President, Chemical Society of Japan during the CSJ Asian International Symposium (27th-30th March 2009) held at Nihon University, Chiba, Japan. Dr. Mohanty is from the 37th Batch of BARC Training School. Her present research interests include the studies on the photophysics of supramolecule based host-guest and biomolecular assemblies and exploring their use in diverse applied areas.
Dr. R. Acharya, Head of R&D, Reactor Design & Development Group and Director, Design, Manufacturing & Automation Group was conferred the Honorary Doctorate of Science by the University of Mysore in its 89th Annual Convocation held on the 7th March 2009 at Mysore.

Dr. Sinha graduated in Mechanical Engineering from Patna University in 1972, standing first in the University. After completing the 16th Course of BARC Training School he joined Reactor Engineering Division of BARC. Dr. Sinha’s work profile has included core internals for Dhruva and PHWRs, coolant channel life management and development of special repair and maintenance techniques for nuclear reactors.

Since past several years, Dr. Sinha has been guiding the programmes for new advanced reactors under design and development at BARC to utilize thorium. These include, the Advanced Heavy Water Reactor, which produces most of its power from thorium, and has several innovative passive safety systems. He is also responsible for the design and development of the Indian High Temperature Reactor, intended for hydrogen generation. As part of the work, he has guided the design of the Compact High Temperature Reactor, which will serve as a technology demonstrator, for future larger high temperature reactors.

Dr. Sinha has received several awards and honours. These include: the first Homi Bhabha Science and Technology Award, VASVIK Award, Indian Nuclear Society Award and the DAE Special Contribution Award. He was elected a Fellow of the Indian National Academy of Engineering in 1998.

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Dr. Raghunath Acharya, Radiochemistry Division, BARC has received the Young Scientist Award 2008 (YSA 2008) of the International Committee of Activation Analysis / Modern Trends in Activation Analysis (ICAA/MTAA) in recognition of his significant achievements in Nuclear Analytical Chemistry. Dr. Acharya received this award consisting of a citation and a cash prize of USD 1000 at the 9th International Conference on Nuclear Analytical Methods in the Life Sciences (NAMLS-9) held during September 7-12, 2008 at Lisbon, Portugal. As a young scientist awardee, he delivered the first talk of NAMLS-9 Conference, in which he gave an overview of “Development and applications of k$_{eff}$-based neutron activation analysis (NAA) and prompt gamma ray NAA (PGNAA)”.

Dr. Acharya has been working in the Radiochemistry Division since 1994 after graduating from 37th batch of BARC Training School in Chemistry discipline. He is actively engaged in R&D work on conventional and k$_{eff}$-based NAA and PGNAA, using research reactors and high resolution gamma ray spectrometry. He is instrumental in developing k$_{eff}$-based methods in NAA and PGNAA for the first time in India. He optimized the methodologies and has been applying them for multielement profiles in various samples of geological, biological and environmental origin as well as nuclear materials. He is also actively engaged in speciation studies of elements like iodine and arsenic by chemical NAA methods. Currently he is engaged in standardizing Particle Induced Gamma ray Emission (PIGE) method, for low Z elements using proton beams at FOTIA, BARC. To his credit, he has got 46 papers in peer reviewed journals and more than 100 papers in various national and international conferences/symposia.