

Centenary Year of Indian Institute of Science

The Indian Institute of Science came into existence in the year 1909, giving shape to the extraordinary vision of Jamsetji Nusserwanji Tata. The initial endowment provided by Jamsetji Tata, the munificent grant of a vast stretch of land by the Maharajah of Mysore, and the unflinching support of the Government of India were instrumental in setting up the Institute. The establishment of the Institute was an important landmark in expanding traditions of scientific research in India in the twentieth century.



The Institute has always been an enduring symbol of the very best in Indian scientific research and has assiduously maintained the highest standards of academic excellence, matching the best in the world. The IISc Centenary Celebrations are being organized to mark 'one hundred' illustrious years of leadership in science, technology, and innovation.

Background and Aims of the Workshop

Self-propagating High Temperature Synthesis (SHS) or combustion synthesis is a facile and fast method of preparing all kinds of technologically useful oxide and non-oxide materials. Today, SHS has become a very popular method of preparing advanced materials and is practiced in 35 countries around the world. India and Russia are among the top countries in terms of publications on the topic.



The year 2008 marks two decades since the first publication of the synthesis of oxide materials by Solution Combustion (SC) technique, developed at the Indian Institute of Science, Bangalore. The 40th anniversary of the Self-propagating High Temperature Synthesis process was celebrated last year at the Institute of Structural Macrokinetics and Materials Science (ISMAN), Chernogolovka, Moscow Region, Russia.

The aim of the workshop is to review the state of the art of both SHS and SC and identify the areas of future research for specific applications. Eminent Scientists from premier Institutes and Laboratories from India and Russia will be participating in the workshop.

Lectures on several aspects of SHS products and their applications in industry will be delivered. It is hoped that the proceedings of the workshop will help in identifying areas of future research and development programs and possible collaboration between India and Russia.'

Venue

The workshop will be held at the Materials Research Center Auditorium at IISc, Bangalore. The Indian Institute of Science has a beautiful campus of lush green vegetation spread across more than 300 acres. Bangalore is one of India's most happening cities with a rich culture and traditions. November is a pleasant month with temperatures around 20-25 °C with occasional showers. Casual wear with light woollens is recommended.



Registration and Accommodation

The organizers have great pleasure in inviting all those interested in the research and development of self-propagating fire synthesis. The registration fees is Rs.1000/- for faculty and Rs.500/- for students. This includes food and accommodation. The registration fees in the form of demand draft drawn in favour of 'The Registrar, Indian Institute of Science Bangalore' is to be sent to the conveners before 1st November 2008. Limited travel support will be offered to students and young researchers, subject to the availability of funds.

Conveners

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Tentative List of Speakers

Russian Speakers

Prof. Rogachev Alexander S	ISMAN, Moscow
Dr. Sytshev Alexander E	ISMAN, Moscow
Dr. Barinova Tatyana V	ISMAN, Moscow
Dr. Kochetov Nikolai A	ISMAN, Moscow
Dr. Grigoryan Amazasp E	ISMAN, Moscow
Prof. Krishenik Petr M	ISMAN, Moscow
Prof. Kuznetsov Maksim V	ISMAN, Moscow
Dr. Grachev Vladimir V	ISMAN, Moscow
Dr. Tolochko Boris P	Inst. of Steel & Alloys, Moscow
Dr. Kurbatkina Viktoria V	Inst. of Solid State Chemistry & Mechano-chemistry, Novosibirsk

Indian Speakers

Prof. Patil K.C.	IPC IISc, Bangalore
Prof. Hegde M. S.	SSCU IISc, Bangalore
Prof. Giridhar M	CE IISc, Bangalore
Prof. Arun M Umarji	MRC IISc, Bangalore
Dr Adiga KC	Nanomist Systems, USA
Dr. Aruna S. T.	Surface Engineering Div NAL, Bangalore
Prof. Bahadur. D	MMS IIT, Mumbai
Dr. Chandrappa G.T.	Chemistry Dept, Bangalore University
Dr. Gopichandran R.	GE India, Bangalore
Dr. Joy P A.	NCL, Pune
Prof. Maiti H.S.	CGCRI, Kolkota
Prof. Pramanik P.	Chemistry Dept. IIT, Kharagpur
Prof. Ranga Rao G.	Chemistry Dept. IIT, Chennai
Dr. Sushil Kumar Rajan	Cabot Materials Research, Malaysia
Prof. S. Sundar Manoharan	Chemistry Dept. IIT, Kanpur
Dr. A.K. Tyagi	Solid State Chemistry Group BARC, Mumbai
Prof. Varadaraju U.V.	MSRC, IIT, Chennai
Prof. Venkatramana A.	Materials Science Dept, Gulbarga Univ. Gulbarga
Dr.Suman Mishra	NML, Jamshedpur

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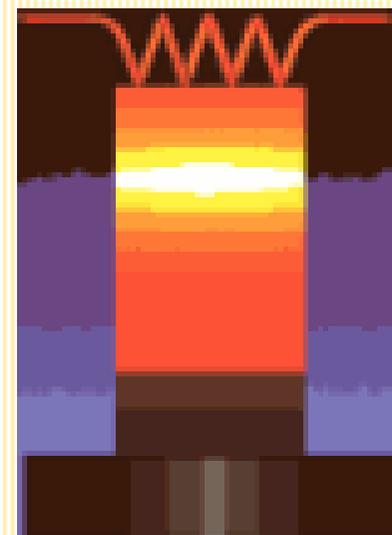


Indian Institute of Science
Centenary Celebrations



Indo-Russian Workshop on Self-propagating High Temperature Synthesis (SHS)

Sponsored by
Department of Science & Technology, India
and
Russian Foundation for Basic Research, Russia



November 27-29, 2008

Bangalore, India

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