



Twentieth Annual Conference of Indian Nuclear Society (INSAC-2009)

Dates
January 4-6, 2010

Venue
**The Convention Centre,
The Chennai Trade Centre, Chennai, Tamil Nadu, India**

Theme
Materials and Manufacturing in Nuclear Industry

Organised by
**The Indian Nuclear Society
Indira Gandhi Centre for Atomic Research
Bharatiya Nabhikiya Vidyut Nigam Limited**

INDIAN NUCLEAR SOCIETY

The Indian Nuclear Society (INS), formed in the year 1988, is a registered professional body with a large membership base consisting of scientists, engineers and technologists from nuclear and other research institutions, academia and industries in India. One of the missions of the INS is to create awareness amongst public about the multitude of benefits arising out of nuclear energy and its application. The Society also aims to promote the advancement of nuclear science and technology.

The Society, thus far, has conducted Nineteen Annual Conferences, several International and National Conferences and seminars on wide ranging topics of interest to the department, academia and industry. In addition, INS also periodically arranges special lectures at Universities to infuse interest in nuclear science and engineering among the young students who are the potential future leaders in various fields. The INS also regularly conducts Technical Courses for Industry, students and faculty. To recognize outstanding contributions made by individuals, groups and the industries in the field of nuclear science and technology, the Society has instituted annual INS awards since 2001.

The 20th **INS Annual Conference on Materials and Manufacturing in Nuclear Industry (INSAC-2009)** is jointly organized by Indian Nuclear Society and Indira Gandhi Centre for Atomic Research, Kalpakkam and Bharatiya Nabhikiya Vidyut Nigam Limited (BHAVINI).

INSAC 2009

INSAC-2009 aims at creating a platform for the Indian and foreign industries to converge and share their experiences as well as the challenges in meeting the nuclear standards in areas of materials development and manufacturing. The conference also provides an opportunity for the Nuclear Societies from various parts of World to discuss and open up collaborative ventures in the area of nuclear science and technology.

The conference is structured based on thematic Plenary Sessions followed by parallel sessions. The plenary lectures will be delivered by Eminent Personalities invited to introduce the theme of conference. Each parallel session starts with an Invited Lecture on specific topic followed by contributory papers. The organising committee of **INSAC-2009** extends invitation to eminent persons to deliver Invited Lectures on their fields of specialisation.

The language for the presentations and for the conference proceedings will be English. The conference papers will be peer reviewed and proceedings brought out in a CD along with the book containing accepted abstracts. These would be made available to the delegates during the conference.

Relevance

People: Researchers, Academicians, Materials and Design Engineers, Manufacturing Engineers, Welding Technologists, Corrosion Engineers, Managers of Engineering Establishments, Operation and Maintenance Personnel, Consultants, Regulatory Authorities, Inspection Personnel, Failure analysts

Industries: Material Processing, Steel, Boiler, Pressure Vessel, Tube, Pipe and Valve Manufacturers, Component Manufacturers, Welding Consumables, Heat Treatment, Furnace Manufacture, Non-Destructive Testing, Regulatory Bodies, Educational Institutions, Research and Development Organisations

Venue: The venue of the conference is located very close to the Airport and is well connected by road to various parts of the city. Chennai (formerly known as Madras), the southern coastal city of India is the capital of Tamil Nadu state. It is the fourth largest metropolis in India and is located on the Coromandel Coast of the Bay of Bengal. Modern Chennai grew out of a small village when in 1639 a fishing hamlet called Madraspatnam was selected by early English merchants of the East India Company as a site for the settlement. The city witnessed impressive celebrations to mark the 370th year of its formation. Today, Chennai has a large number of five star hotels and budget hotels to satisfy the needs and comfort of international as well as domestic visitors/tourists. Despite the hot and humid climate throughout the year, December and January months are the most pleasant ones weather-wise. Chennai is endowed with rich cultural heritage. It offers a blend of both classical and modern forms of Art that attracts large number of tourists. The city has the unique distinction of having a large number of educational and research organisations. Ever growing and expanding, the vibrant city of Chennai has a very important place in the development of modern India in terms of contributions from information technology automobile, petrochemical and power generating sectors.

Topics to be covered

- Materials properties

- Materials selection
- Manufacturing processes
- Heat treatment
- Welding science & technology
- Concurrent engineering
- CAD/CAM, Near-Net-shape
- Quality assurance
- Special materials for nuclear components
- Automation & robotics in manufacturing
- Advanced materials and coatings
- Manufacturing of large components
- Rapid prototyping
- Codal and regulatory aspects
- Modeling, Simulation and Intelligent Manufacturing
- Plant layout, Product development and Manufacturing Management
- Rapid prototyping and Concurrent engineering
- Manufacturing innovations and Global trends in manufacturing
- Human resource development, IPRs and Knowledge management

Call for Papers

Papers are invited on the topics outlined above and other subjects of interest relevant to the theme of the conference. Abstracts of about 250 words should be submitted to the **Convenor** of the conference, by e-mail / hard copy. Abstracts should clearly bring out the objectives and the important results of the study. The abstract should contain the title of the paper, the author's name(s) and their affiliation including mailing address, fax numbers and the e-mail of the corresponding author. It is important to note that the papers are accepted based on the understanding that the author or one of the authors will attend and present his/her paper/poster at the conference. Guidelines for submission of manuscript for review and the preparation of final camera-ready version will be communicated upon acceptance of the abstract.

Important Dates and Deadlines

Abstract Submission	October 1, 2009
Intimation of Acceptance (oral/poster)	October 15, 2009
Submission of Paper	November 30, 2009
Early bird registration incentive	November 1, 2009
Deadline for registration	December 15, 2009
Exhibition / Sponsors / Advertisement	December 26, 2009

Registration

The participants are requested to register on or before **December 15, 2009**. Delegates registering prior to **November 15, 2009** will enjoy an early bird incentive of 15% discount.

Registration Fee

1. Delegates from Indian Educational Institutions, Government Departments and INS Members	INR 2,500
2. INS senior citizen Members	INR 2,000
3. Delegates from Indian Industries	INR 3,500
4. Students	INR 500
5. Delegates from overseas countries	USD 300
6. Accompanying persons	INR 2,000 / USD 100

The registration fee includes delegate kit, admission for all sessions, a set of conference materials, (book of abstracts of the contributory papers, a CD containing conference proceedings and a souvenir), lunch and tea on conference days. The registration fee can be paid in the form of a crossed (A/c payee) demand draft drawn in favour of **INSAC-2009**, payable at the Indian Bank, Anupuram.

Accommodation

A number of good hotels are located close to the conference venue at Chennai. A detailed list of hotels will be made available in the conference website. Accommodation in these hotels can be booked online or through travel agents. In addition, very limited accommodation can be arranged in guest houses for students and young academics.

Travel Support

Limited travel support could be considered based on merit of the case and the number of such requests.

Sponsorship Opportunities

The conference provides a unique opportunity for sponsoring industries / organisations to promote their products / services to the focused international and national audience besides having an excellent opportunity to interact with utility engineers / scientists / academia during entire conference duration.

Category of Sponsorship	Amount for Indian Companies (INR)	Amount for Foreign Companies (USD)	Benefits
Diamond Sponsors	5,00,000	12,000	<ul style="list-style-type: none"> • Logo in website, souvenir and proceedings • One page profile in souvenir • One full page colour advertisement in souvenir • Two exhibition stalls (3x3 m) • Free registration for five delegates
Golden Sponsors	3,00,000	8,000	<ul style="list-style-type: none"> • Logo in website, souvenir and proceedings • One page profile in souvenir • One full page colour advertisement in souvenir • An exhibition stall (3x3 m) • Free registration for three delegates
Silver Sponsors	1,00,000	4,000	<ul style="list-style-type: none"> • One full page B&W advertisement in souvenir • An exhibition stall (3x3 m) • Free registration for two delegates

Sponsors for Lunch	2,00,000	4,000	<ul style="list-style-type: none"> • Announcement with Logo in lunch invitation card • One full page B&W advertisement in souvenir • Free registration for two delegates • Banner display during lunch
Sponsors for Dinner	2,50,000	5,000	<ul style="list-style-type: none"> • Announcement with Logo in dinner invitation card • One full page colour advertisement in souvenir • Free registration for two delegates • Banner display during dinner
Sponsors for Cultural Programme	1,50,000	3,000	<ul style="list-style-type: none"> • Announcement with logo in invitation card • Free registration for one delegate • Banner display on the stage during cultural programme
Sponsors for each session	40,000	1,000	<ul style="list-style-type: none"> • Announcement during beginning and end of each session • Free registration for one delegate • Banner display during the session • One full page B/W advertisement

The detailed information regarding the sponsorship and the advertisement in the Souvenir can be obtained from the conference **Convener/ Secretary**.

Exhibition

To promote a meaningful industry / research interaction, a technical exhibition focusing the theme *Materials and Manufacturing in Nuclear Industry* is planned at the conference venue. This exhibition will be open to the galaxy of international and national delegates drawn from industry, research and academic institutions during the entire three-day duration of the conference. For exhibition, the organising committee will provide stalls of size 3x3 meters with necessary facilities for display / demonstration of the commercial products / services.

Exhibition Fee (per stall for overseas organisations) :USD 2,000

Exhibition Fee (per stall for Indian organisations) :INR 40,000

The exhibitor of the stall is entitled for the waiver of registration fee for one delegate and one page B&W advertisement in the Souvenir. Interested organisations / industries are requested to contact the **Convener** of the conference for obtaining further details regarding the participation in the Exhibition. The participants for the exhibition are requested to register on or before **December 26, 2009**.

Souvenir

A souvenir will be published to commemorate the event. This will include technical articles by eminent experts on contemporary topics of research and manufacturing related to nuclear industry, information related to the conference, the details of sponsors and the exhibitors. This will be widely circulated among the professionals and the industries in India and abroad.

Advertisements are solicited for insertions in the souvenir. The matter for advertisement may be sent to the **Convener / Secretary** on or before **December 26, 2009**.

All payments are to be made by cheque / DD drawn in favour of INSAC-2009, payable at Indian Bank, Anupuram.

Advertisement Rates for Souvenir

Page	Indian (INR)	Overseas (USD)
Outside Back Cover	30,000	1,000
Inside Cover Pages	25,000	750
Special Colour Pages	20,000	500
Full Page (B & W)	15,000	300
Half Page (B & W)	10,000	200

Places of Interest around Chennai

Chennai is surrounded by several places of historic importance. Mamallapuram (once a famous port of Pallavas (7-8 century AD) is situated 58 km South of Chennai on the shore of Bay of Bengal. It is known for many marvellous monuments with sculptural panels, caves, monolithic rathas and temples, and it offers sunny beaches and beach resorts. Kovalam, a picturesque fishing village, which was originally a port, is about 48 km from Chennai. The remains of an old fort have now been converted into a luxury beach resort with facilities for wind surfing and swimming. Crocodile Bank about 44 km from Chennai is a crocodile breeding and research centre. The reptiles are kept in their natural habitat in open pools and can be viewed from safe proximity. Kancheepuram the 'Golden City of Temples' situated 75 km from Chennai is an important seat of learning. The 2000 years old city was the historical capital of Pallavas between 6th and 8th century. Pondicherry is an old port city and earlier a French colony is about 160 km south of Chennai. It has famous Aurobindo Ashram, Auroville, beach, churches and temples attracting the tourists.

For more details please refer to websites:

www.tamilnadutourism.org, www.chennaionline.com, www.chennaibest.com

People behind INSAC-2009

A strong and devoted team of people is working for the successful organisation of **INSAC-2009**. The International Advisory Committee and National Steering Committee consist of eminent persons related to theme of the conference from India and abroad.

International Advisory Committee

Dr. Anil Kakodkar,	Chairman, AEC, India Chairman
Dr. R. Chidambaram	PSA, Govt of India
Prof. P. Rama Rao	President, INS, India
Dr. Baldev Raj	Director, IGCAR, India
Dr. Jacques Bouchard,	Special Advisor to Chairman, CEA, France
Dr. Vladimir Shkolnik	President of Kazatomprom, Kazakhstan
Mr. Gerald W. Grandey	President & CEO, CAMECO, Canada
Dr. Hugh MacDiarmid,	President & CEO, AECL, Canada
Dr. Tom Sanders	President, ANS, USA
Dr. Y.A. Sokolov	Dy. Director General, IAEA, Vienna
Dr. Vuong Huu Tan	Chairman, VAEC, Vietnam
Dr. Klaus Al Usta	VP, AREVA, NP, France
Dr. Myung Seung Yang	President, KAERI, Korea

National Steering Committee

Prof. P. Rama Rao	President, INS	Chairman
Dr. Baldev Raj	Director, IGCAR	Co-chairman
Mr. Prabhat Kumar	PD, BHAVINI	Convener
Dr. S. Banerjee	Director, BARC	
Dr. R. K. Bhandari	Director, VECC, Kolkata	
Dr. Balasubramanian	Director, IMSc, Chennai	
Dr. Anjan Chaki	Director, AMD	
Dr. C. Ganguly	Head, NFCMS, IAEA, Vienna	
Mr. J.N. Godrej	CMD, M/s Godrej & Boyce Mfg Ltd.,	
Mr. O.P. Goyal	GMR Energy Limited	
Dr. P.D. Gupta	Director, RRCAT	
Mr. R.K. Gupta	CMD, UCIL	
Mr. S.K. Jain	CMD, NPCIL & BHAVINI	
Mr. R.N. Jayaraj	CE, NFC	
Mr. Baba Kalyani	CMD, Bharat Forge	
Dr. A.K. Kohli	CE, BRIT	
Mr. Y.S. Mayya	CMD, ECIL	
Mr. A.M. Naik	MD & CEO, L&T, Mumbai	
Mr. M. Narayana Rao	MIDHANI	
Mr. A.L.N. Rao	CE, HWB	
Mr. Raveendra Reddy	Director, MTAR Technologies	
Mr. K. Ravikumar	CMD, BHEL	
Mr. S.K. Sharma	Chairman, AERB	
Mr. R.K. Sinha	Director, RDDG, BARC	

Local Organising Committee

Dr. Baldev Raj	Director, IGCAR	Chairman, INSAC-2009
Mr. Prabhat Kumar	PD, BHAVINI	Convener, INSAC-2009
Mr. B.T.Sangu	ACE, (PC), BHAVINI, Mumbai	
Mr. S.C. Chetal	Director, REG, IGCAR	
Mr. S. Basu	Director, BARCF, BARC	
Mr. S. Ramamurthy	SD, MAPS	
Mr. C. Awasthi	Exec. Director (QA), NPCIL	
Mr. B.S. Goyal	Director (Finance), BHAVINI	
Mr. M.K. Kannan	IAIF, NPCIL	
Dr. P.R. Vasudeva Rao	Director, CG, IGCAR	
Dr. T. Jayakumar	Head, NDED, IGCAR	
Mr. T.K. Mitra	AD (Technical), BHAVINI	
Mr. A.S.L.K. Rao	Head, PD, IGCAR	
Dr. B.P.C. Rao	NDED, IGCAR	
Mr. R.K. Singh	Secretary, INS	
Dr. V. Ganesan	Head, MCD, IGCAR	Treasurer, INSAC-2009
Dr. B. Venkatraman	Head, QAD, IGCAR	Secretary, INSAC-2009

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