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8th NATIONAL SEMINAR & EXHIBITION ON AEROSPACE AND RELATED MECHANISMS

6-8 December



(Final Announcement and Call for Papers)

Organised by :

Armament Research & Development Establishment

Dr. Homi Bhabha Road, Pashan, Pune - 411021, INDIA



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8th NATIONAL SEMINAR & EXHIBITION ON AEROSPACE AND RELATED MECHANISMS 6-8 December 2012

Theme

**Advances in Mechanisms for
Defence & Space, Automation and Processes**

INTRODUCTION

The Indian National Society for Aerospace & Related Mechanisms (INSARM) has been organising seminars on Aerospace & Related Mechanisms once in 2 years. The seventh seminar was organised at Thiruvananthapuram in July 2010. This seminar is being organised at Pune and is jointly sponsored by DRDO, HAL & ISRO and co-sponsored by many Govt. agencies, industries, R & D and academic institutions in India. The seminar theme is Advances In Mechanisms for Defence and Space Automation and Processes.

OBJECTIVES

The seminar will focus on recent advances in Mechanisms for Defence, Aerospace, Automation and Processes with respect to design, development, analysis, manufacturing, testing, etc. The plenary session will focus on the state of art activities in this arena.

CALENDAR OF EVENTS

First announcement	08 June 2012
Receipt of abstracts (Extended)	17 August 2012
Intimation of acceptance (Extended)	31 August 2012
Receipt of final paper	28 September 2012
Registration final date	25 November 2012
Seminar & Exhibition	6-8 December 2012

Abstract and Papers Should be mailed to
Email : insarm.pune@gmail.com

TOPICS

The seminar topics will cover generally Mechanisms for manned launch vehicles, autonomous vehicles for earth orbits & interplanetary voyages, robotics, rovers, docking etc. for scientific & commercial application.

AREAS FOR SUBMISSION OF PAPER

- Design, analysis & testing in Defence & Aerospace Mechanisms
- Advances in Mechanisms for unmanned aerial vehicles
- Armament Mechanisms
- Spacecraft Mechanisms
- Fuzes & Safety Arming Mechanisms
- Automation in Defence and Aerospace equipment/industry
- Reliability Analysis of Mechanisms
- International Space station Docking
- Ergonomic Mechanism designs for human in space
- Ejection system design for launch vehicles & Crew modules
- Recovery & Reuse Mechanisms
- Positioning & Pointing Mechanisms
- State of art robotics
- Mechanisms for applications in next decade and beyond
- Life cycle study in Mechanisms
- Sophisticated ground based systems for Mechanisms
- Modelling and Simulation of Mechanisms
- TQM in Armament and aerospace Mechanisms

CALL FOR PAPERS

Authors are invited to submit papers for the seminar. Selection will be based on extended abstract (approximately 500 words). Abstract submission should include

- Title of the paper
- Author name(s), Address, Telephone number, Fax number & E-mail address
- Clear description of the paper including results and discussions

Abstracts of papers in electronic format typed in double space are to be sent to the Organising Committee. Acceptance and detailed instructions for submission of final paper will be communicated.

A student session is planned for presentation of papers separately.

AWARDS

Excellent technical papers will be selected for award. A separate jury will be instituted for review and recommendation of the awards.

EXHIBITION

An exhibition of newly developed Mechanisms and related products is being planned as part of the seminar. Exhibits of Mechanisms, working models, laminated photos, products and posters will be accepted. Those interested are requested to send the list of items to be exhibited and space requirement. Industries are invited to participate with products as well as software related to Mechanisms.

Exhibition Fee: ₹ 40,000/- per cubicle of size 2.5m length, 1.5m width and 2.4m height

SOUVENIR

A Souvenir will be brought out on this occasion. All the advertisers are requested to advertise their products and give impetus to the seminar.

ADVERTISEMENT RATES

Back cover outside	₹ 50,000/-
Front cover inside	₹ 40,000/-
Back cover inside	₹ 40,000/-
Full page colour	₹ 25,000/-
Half page colour	₹ 15,000/-

Companies may sponsor the event

SPONSERSHIP RATES

Platinum	₹ 5 Lakhs
Dimond	₹ 3 Lakhs
Gold	₹ 2 Lakhs
Silver	₹ 1 Lakhs

PAYMENTS

All payments shall be made by crossed demand draft in favour of INSARM PUNE payable at Pune

ABOUT THE CITY

Pune derives its name from the Sanskrit term *Punyanagara* or "City of Virtue". It was once the centre of power of the mighty Maratha Empire and served as the headquarters of the *Peshwa* (Prime minister). Situated on the Deccan Plateau at the confluence of two rivers, it is the second largest metropolis of Maharashtra after Mumbai. Hailed as the "Oxford of the East", Pune draws thousands of students to its educational institutions par excellence, while job aspirants make a beeline to its world class IT and automobile companies. A city of strategic importance, it is home to an Air Force base and the largest Army Command in addition to several defence institutions. Pune was an important centre in the social and religious reform movement of the late 19th century. Many prominent social reformers and freedom fighters lived here, including Bal Gangadhar Tilak (Lokmanya Tilak), Mahatma Jyotirao Phule and Dhondo Keshav Karve. The mellifluous voice of Bharat Ratna Pandit Bhimsen Joshi reverberated from this city. Pune is also associated with the struggle for Indian independence. Mahatma Gandhi was imprisoned at Yerawada Central Jail several times and placed under house arrest at Agakhan Palace, where Kasturba Gandhi breathed her last. An event of great magnitude and socio-cultural significance that marks Pune is the ten-day Ganesh festival that attracts even foreign tourists. The reverence to Lord Ganapati is reflected in the numerous temples such as Kasba Ganapati (the presiding deity of the city), Shrimant Dagdu Sheth Halvai Ganapati and Sarasbaug Ganapati. Historical attractions include the 8th century Pataleshwar cave temple, Shaniwar Wada fort, Sinhagad fort, Lal Mahal, Shinde Chhatri and Aga Khan Palace. The city is surrounded by a number of military forts that have witnessed the glory and bravery of the great Maratha warrior king, Chhatrapati Shivaji. Pune is considered to be the cultural capital of Maharashtra and is abuzz with activities in classical music, theatre, literature, spirituality and sports all the year round.



LOCAL ORGANISING COMMITTEE

Shri AM Datar	Director ARDE	– Chairman
Dr. KM Rajan	Associate Director, ARDE	– Convener
Shri Kapil Deo	Associate Director, ARDE	
Shri KJ Daniel	Associate Director, ARDE	
Dr. Mahendra Jha	Associate Director, ARDE	
Dr. SV Gade	Associate Director, ARDE	
Shri KPS Murthy	Associate Director, ARDE	
Shri AA Ghosh	Associate Director, ARDE	
Shri AA Mukherjee	Joint Director, R & D E (E)	
Shri VV Parlikar	Associate Director, R & D E (E)	
Dr. B Sivasubramonian	General Secretary, INSARM (National)	
Shri Kesava Murthy	Secretary, INSARM, Bangalore	
Shri Varaprasada Rao	Secretary, INSARM, Hyderabad	
Shri P Damodaran	Secretary, INSARM, Thiruvananthapuram	

Organising Secretary, ARMS 2012

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PATRONS

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Dr. K Radhakrishnan, Chairman, ISRO
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Shri RK Tyagi, Chairman, HAL

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Dr. VS Hegde, CMD, Antrix Corporation
Dr. KM Rajan, Associate Director, ARDE, Member Secretary

6-8 December 2012 Pune

Personal Details (in BLOCK letters)

Name :

Designation :

Organisation :

Address :

Telephone :

Mobile :

Fax :

E-mail :

Registration Details

Category :

Amount :

DD No. :

Bank :

Registration

Participants are requested to register on or before 25 November 2012. Registration fee shall be paid by crossed demand draft in favour of INSARM Pune payable at Pune.

Delegate Fees

General Participants	₹ 5000/-
Educational Institutions	₹ 3000/-
Members of INSARM	₹ 3000/-
Student Participants	₹ 1000/-
Foreign delegates	\$ 500