



Liquid Propulsion Systems Centre
Indian Space Research Organisation

National Conference on Electric Propulsion Systems

Registration

All the authors/ delegates are requested to fill the given below registration form as enclosed herewith and send the registration fee as a demand draft drawn in favor of **National Conference on Electric Propulsion Systems**, payable at State Bank of India, HAL 2nd stage Indira Nagar, Bangalore along with the registration form to the organizing secretary. One of the authors must register for the seminar before the last date of registration.

Registration Fee

Organization Sponsored Rs 3000/-

Industrial Delegates Rs 4000/-

Student Rs 500/-

Important dates for authors

Last date for receipt of extended abstract

10th January 2011

Intimation of acceptance of abstract

20th January 2011

Last date for Registration and submission of full text paper

5th February 2011

Souvenir

An informative souvenir including all the papers presented in the conference will be made available to all delegates. You are requested to support the conference through advertisement, the rates of which are follows:

Multicolor Front Page	: Rs 20,000
Multicolor Back Page	: Rs 15,000
Multicolor Full Page	: Rs 15,000
Black & White Full Page	: Rs 10,000
Black & White Half Page	: Rs 5,000



Conference Venue

Auditorium

Liquid Propulsion Systems centre
80 ft Road, Indira Nagar, HAL 2nd stage
Bangalore 560 075

Contact Address

K.M. Shanbhogue, Organizing secretary
Electric Propulsion Systems Division

**Liquid Propulsion Systems Centre
Indian Space Research Organisation**

80 ft Road, Indira Nagar, HAL 2nd stage, Bangalore 560 075
Phone: + 9180 25037410 Mobile: +91 9980290119

A New Thrust in Space Application

Auditorium: LPSC, Bangalore
FEBRUARY 23 & 24, 2011



The Liquid Propulsion Systems Centre (LPSC), as the lead Centre for advanced propulsion system development in ISRO, initiated the development of Electric Propulsion Systems (EPS) in the year 2000. GSAT-4 launched in 2010 carried an EPS module as an experimental payload augmenting the on-board Chemical Propulsion System for North/South station keeping functions. A power optimized EPS was developed and qualified on ground for the above flight trial.

The GSAT – 4 EPS employed four numbers of 18 milli Newton Hall Effect thrusters each rated for 350 W of power consumption. The power processing unit based on 42V spacecraft power bus for EPS has been developed and implemented for the above mission. The successful qualification and realization of Electric Propulsion System flight module for GSAT-4 marks an important milestone highlighting further R&D efforts needed in several key technologies.

The two-day conference on Electric Propulsion Systems provides a platform for scientists, technologists, engineers, and agency representatives to present and exchange views on aspects related to the research and development on Thruster, Materials such as metal, ceramic and others; Test Facility, Power Processing unit, Plasma Diagnostics, Analysis and more importantly, possible application of EPS in the future missions of ISRO.

The conference provides opportunities for presenting the latest advances in thruster, materials, power processing, characterization and applications to researchers from various R&D organizations, academic institutions and industry practitioners. While highlighting the benefits of EPS, the conference primarily focuses on the various technologies involved in the development of EPS components, facility requirements and additional demands from the spacecraft in terms of power, mission, planning etc.

Program

- Registration
- Inauguration
- Technical sessions
- Panel discussions and Conclusions

Sponsored dinners and exhibition is arranged for registered participants.

Technical Sessions

- Invited lectures
- Contributed papers
- Panel discussion

Day one

Session-1

Electric Propulsion Systems and its Application – The application of EP technology in communication satellites and small interplanetary missions, its benefits in terms of mission life and pay load fraction. Challenges in developing power optimized electric thrusters.

Session-2

Spacecraft Technology Demands – Demands from spacecrafts in terms of power, interfaces, mission planning, development of power processing and control system.

Day two

Session-3

Development of Cathode and Modeling of Thruster – The process of cathode development, thruster modeling, life estimation, ground test facility requirements and plasma diagnostics.

Session-4

Qualification of EPS Systems – Qualification processes to meet the requirements of mission demands; tests and analysis of various subsystems.

Submission of papers.

The dead line for submission of abstract is 10th January 2011 and selected papers by 20th January 2011. Abstract Shall be sent to Following e-mail address, kkms_lpssc@yahoo.co.in

Advisory Panel

S.Ramakrishnan	Director, LPSC
Dr.T.K Alex	Director, ISAC
Dr. P.K. Kaw	Director, IPR
Dr. Lalith Kumar	Director, MTDRC
Dr. Ramamurthi K.	Professor, IIT Chennai
Dr. B.N Raghunandan	Professor, IISc, Bangalore
Dr. Avinash Khare	Professor, Delhi university
Dr. MM Nayak	Director, LVPO
B. S. Chandrasekar	Director, ISTRAC
H.N. Madhusudhana	Ex. Director, Antrix
MYS Prasad	Assoc. Director, SDSE
S.K. Shivakumar	Assoc. Director, ISAC
A.S Kiran Kumar	Assoc. Director, SAC
V.Koteswara Rao	Director, LEOS
Dr. S. Mukherji	Director, FCIPT
C.H. Kunhikammaran	DD, CPES, LPSC
S.Ramaratnam	DD, Avionics, VSSC
B.K.Venkataramu	DD, LPSCB
Dr. N.Vedachalam	Distinguished Professor, ISRO
P.J. Bhat	DD, controls, ISAC
PS Sastry	ISRO HQ

Organising Committee

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Head Acct. & IFA	LPSC
Senior Acct. officer	LPSCB
Senior Admin. officer	LPSCB

Member Secretary

K.M Shanbhogue DDH, EPSD, LPSCB

Registration Form

EPS 2011 National Conference on Electric Propulsion Systems

Name :

Designation :

Organization :

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Official Address :

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Phone No. :

Fax No. :

Mobile No. :

Email :

Whether organization Sponsored candidate Yes No

I would like to participate in EPS 2011 and hereby enclose the registration form along with registration fee

Demand Draft No :

Dated :

Bank :

.....

Name :

Signature :

Date :

Place :

