

Pre Conference Workshop
on
Development of Fixed Wing Mini UAV
for Autonomous Operations
21st March 2017



Organized by

**International Institute for Aerospace Engineering
& Management (IIAEM)**

Jain University - Global Campus
Kanakapura Road, Jakkasandra Post, Ramnagara Dist
Bengaluru (R), Karnataka

in association with

CSIR - National Aerospace Laboratories
Bengaluru

About IIAEM

International Institute for Aerospace Engineering and Management (IIAEM) under Jain University provides high calibre education, research and capacity building in the field of aerospace engineering and aviation business management with accent on solving real world problems. IIAEM is enriched by the association of the Society of Indian Aerospace Technologies and Industries (SIATI) and leading aerospace industry and national research organisations in pursuit of its activities for graduate/ post graduate/ PhD research programs, enrichment programs for working professionals and policy advice.

About CSIR - NAL

National Aerospace Laboratories (NAL), a constituent of the Council of Scientific and Industrial Research (CSIR), India, is the only civilian aerospace R&D laboratory in India. CSIR-NAL is a high-tech oriented institution focusing on advanced topics in aerospace and related disciplines and has a mandate to develop aerospace technologies with strong science content, design and build small and medium-size civil aircraft and support all national aerospace programmes. Its contributions over the last five decades have enabled it to create a niche for itself in the areas of advanced aerospace research and technology development.

About Conference

The conference on “Emerging Technologies and Applications of UAVs” aims to bring together leading scientists and engineers from laboratories and industries and research scholars from academia and the experts from regulatory bodies and the application experts from various departments to exchange and share their experiences and research results on all aspects of small UAVs.

Workshop Highlights

- Fixed wing aircraft design overview
Mission, Aerodynamic design, sizing, stability, aero characterization in wind tunnel
- Power plant, fabrication characterization
Propulsion, dynamic characterization through wind tunnel, fabrication, structure
- Autopilot, communication, integration
Sensors, actuators, micro controller, transmitter and receiver, control algorithm
- Initial assembly, testing autopilot
- Ground control station
Flight visualization, simulation, waypoint navigation
- Field trials, data collection and analysis
Autonomous mission demonstration, data acquisition and processing

Guest of Honour

Dr.Chenraj Roychand, President, JGI
Dr. Krishnadas Nair, Chancellor, Jain University
Dr. N Sundararajan, Vice Chancellor, Jain University
Prof. B Dattaguru, IISc (Retd.), Visiting faculty, IIAEM
Dr. A R Upadhya, Distinguished Faculty, IIAEM

Workshop Resource Committee

PVS Murthy, Principal Scientist & Head MAV Unit, CSIR - NAL
Dr. C. M. Ananda, Sr. Principal Scientist & Head, ALD, CSIR - NAL
Dr. G. K. Singh, Sr. Principal Scientist , FMCD, CSIR - NAL
Dr. Parag Deshpande, Sr. Scientist, MAV Unit, CSIR - NAL
Ravi Dodamani, Scientist, MAV Unit, CSIR - NAL
Roshan Antony, Scientist, MAV Unit, CSIR - NAL
C. S. Suraj, Scientist, MAV Unit, CSIR - NAL
Shashant Anand, Scientist, MAV Unit, CSIR - NAL
Michael Fenelon, Scientist Fellow, MAV Unit, CSIR - NAL
Karthik, Project Engineer, MAV Unit, CSIR - NAL

Workshop Organising Committee

K R Sridhara Murthi, Director, IIAEM, JU
V Parameswaran, HOD, Aerospace Dept, IIAEM, JU
Ramesh G R, Former Head - MAV unit, NAL & Visiting Faculty, IIAEM, JU
Sulakshan Arya, Assistant Professor, IIAEM, JU
Ashish Gupta, Assistant Professor, IIAEM, JU
Allama Prabhu, Assistant Professor, IIAEM, JU
Yashas C R, Visiting Faculty, IIAEM, JU
Vamsi Krishna Chowduru, Assistant Professor, IIAEM, JU

Workshop Handouts

- Registration kit
- Certificate from NAL
- Course material
- Cap with NAL logo

Registration Form

Full Name _____
Designation _____
Organization/
Institution _____
Address _____
Phone _____
Email _____

Payment details

Amount* _____ DD/Transaction number _____
Bank _____ Place _____
Signature _____ Date _____

* Registration fee:

Students: 500/- INR

Other academic and industry: 1000/- INR

- Demand draft to be drawn in favor of "International Institute for Aerospace Engineering and Management (IIAEM)", Payable at Bangalore

- Online transfer can be made to

Account number: 04402010061429

Bank name: Syndicate Bank, VV Puram, Bengaluru

IFSC: SYNB0000440

Accommodation facilities are available at nominal charges subjected to availability

Transportation available from different parts of Bengaluru city

For more details, contact:

Prof. Sulakshan Arya

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For online registration, please visit:

<https://goo.gl/7PwbXV>

or

Scan the QR code



For more updates on event, visit: <http://www.jainuniversity.ac.in/Events-more.htm>