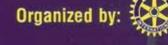
Two Day National Seminar Exhibition on **UAV Technologies and Air Show**

1st & 2nd February. 2014



Rotary Club of Bangalore





Defence R & D Organisation, (DRDO), Bangalore



National Aerospace Laboratories, **Bangalore**



Jain University, Bangalore





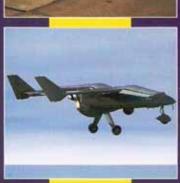
Venue:

Jain Global Campus, Jakkasandra Post, Kanakapura Taluk, Ramanagara District - 562 112

Contact:

Rotary Club of Bangalore. Ph: 2212 0317

Rtn. Raghunathan: 98450 08044





About the Organisers:

Rotary Club of Bangalore:

The Rotary Club of Bangalore (RCB) came into existence on 5th June, 1934 with the persuasive efforts of Rtn.Douglas.C.Howland and is the 7th Rotary Club in pre-independence India. Rtn.L.J.McIver, I.C.S., Collector C & M Station, was the Charter President of RCBand Lt.Col.CTC Plowden, a British resident in Mysore, was the Chief Guest for its formal inauguration.

The Charter of Rotary International was presented to the Rotary Club of Bangalore on October 27, 1934. It was Rtn.H.W.Bryant of the Rotary Club of Bombay and Honorary Commissioner for Afghanistan, Burma, Ceylon and India, who represented Rotary International and handed over the Charter. This historic meeting was held at the West End Hotel in a hall resplendent with Rotary motifs, the walls draped with international flags and the Rotary Wheel.

For several years thereafter, the Rotary Club of Bangalore held its weekly meetings at the Bangalore Club and later shifted its meeting venue to Central Hotel. The Foundation stone for the current club premises was laid by the Past District Governor Rtn.Dr.M.N. Mahadevan on 2nd June, 1963.

From a membership of 25 in 1934, the Rotary Club of Bangalore has come a long way with many accomplishments to its credit during the past 7 decades, growing to its current strength of 234 members, implementing numerous projects serving the community at large.

Defence R & D Organisation (DRDO):

Defence Research & Development Organisation (DRDO) works under Department of Defence Research and Development of Ministry of Defence. DRDO dedicatedly working towards enhancing self-reliance in Defence Systems and undertakes Design & Development leading to production of world class weapon systems and equipment in accordance with the expressed needs and the qualitative requirements laid down by the three services.

DRDO is working in various areas of military technology which include Aeronautics, Armaments, Combat Vehicles, Electronics, Instrumentation Engineering Systems, Missiles, Materials, Naval Systems, Advanced Computing, Simulation and Life Sciences. DRDO while striving to meet the Cutting edge weapons technology requirements provides ample spinoff benefits to the society at large thereby contributing to the nation building.

National Aerospace Laboratories (NAL):

NAL is a multi-disciplinary, vibrant, high technology organization in aerospace sector, is a constituent of the Council of Scientific and Industrial Research, India. NAL is a high technology oriented institution concentrating on advanced topics in the aerospace and related disciplines. Originally established as National Aeronautical Laboratory, it was renamed National Aerospace Laboratories to reflect its major involvement in the Indian space programme, its multidisciplinary activities and global positioning. It is India's only civilian aerospace laboratory with a high level of competence and the expertise of its scientists in all aerospace disciplines is globally acknowledged.

NAL has successfully executed innovative research projects in advanced topics of relevance like smart materials, parallel processing, advanced flow diagnostics and airport instrumentation. Its societal contributions includes harnessing of solar and wind energy, streamlining vehicles for fuel economy and weather prediction systems.

NAL is the harbinger of civil aviation design and development activities in India. NAL designed HANSA trainer aircraft is flying in various flying clubs in India and is all set to reach overseas market. The light transport aircraft, SARAS is undergoing flight testing and is designed to meet a critical need in the civil aviation segment. A 5-seater general aviation aircraft is under design and feasibility studies on a 50-70-90 seater regional transport aircraft are in an advanced stage.

Jain University:

Jain University is declared as deemed-to-be University u/s 3 of the UGC Act, 1956. It is a member of Jain Group of Institutions, with nearly two decades of experience in education field. Jain University offers, UG, PG & Research programmes in the disciplines of Engineering, Humanities, Sciences, Social Sciences, Commerce and Management with a vision of "Nation building through Excellence in Quality Education, Research and Entrepreneurial Development". The University has Academic, Research & Corporate Collaborations with various International & National organizations of excellence. The University has infrastructure and faculty members which are of very high academic standards and offers value added programmes, co-curricular and extra-curricular activities.

HAEM:

International Institute for Aerospace Engineering and Management (IIAEM) is a collaborative venture in association with leading Aerospace Organisations in the country such as HAL, NAL, DRDO, ISRO, AAI, BIAL & CIAL, under the initiative of Society of Indian Aerospace Technologies & Industries (SIATI) and Jain University. Besides involving itself in cutting edge research, the institute will generate a pool of technical manpower skilled in Aircraft Design, Avionics, Aircraft Manufacture & Maintenance, Airport Infrastructure Planning, Design, Construction and Airport & Aviation Business Management through Undergraduate, Postgraduate and Research courses and short Certificate / Diploma Programmes. IIAEM is committed and has already invested considerable effort and money. Within the next few years, the IIAEM will develop into a world-class institution for aerospace research and education.

Scope of the Seminar:

Creating Awareness and Potential of Unmanned Aerial Vehicles (UAV) for Aerosports and Defence Application: Aerosports is a highly creative and exciting hobby of modern day students. Encouraging & nurturing aero sports would provide challenging opportunities for these students to build their career. The role of UAVs in the defence field is growing at a frantic pace. Today's UAV no longer only perform intelligence, surveillance, and reconnaissance (ISR) missions, although this still remains their predominant type, their roles have expanded to areas including electronic attack (EA), strike missions, suppression and/or destruction of enemy air defence (SEAD/ DEAD), network node or communications relay, combat search and rescue (CSAR), and derivations of these themes.

The Seminar aims to discuss the the topics such as Avionics, Design & Fabrication of aero models and UAVs and also state of art technologies required to achieve various classes of UAV's such as High Altitude Long Endurance (HALE), Micro / Mini UAVs, Lighter-than-Air (LTA) Systems and also the certification aspects associated with it.



UAV & Aero Modeling Show and Exhibition:

Spectacular UAV and Aero Modeling Show will be organized on 1st & 2nd February, 2014 to display latest developments of UAV's by DRDO & Aero Modeler Students respectively. Exclusive Aero Modeling Show will be put up by a selected 30 Aero Modelers out of over 100 registered Aero Modeler participants and students to enthrall the spectators by exhibiting special skills of flying Aircrafts, Helicopters, Quad copters & RC Models. A specialist team will perform aerobatic display of radio control planes and helicopters. Highly skilled DRDO team would perform fully autonomous UAV's with sophisticated control systems and display their latest developments.





About 100 Aero Modelers will display their aircrafts. DRDO, HAL, NAL, IITS and many other major organisations will put up exhibitions on wide ranging advanced UAV's and subsystems. The Airshow would be first of its kind experience for the participants and spectators. It is expected that over 5,000 spectators would attend the Airshow on invitation only. Aero modeling show and related exhibition will be co ordinated by AKSHAY Aerosports (Pvt) ltd., Thrishur.

Workshop:

In order to impart practical knowledge to children and college students, the following workshops will be conducted on 1st and 2nd February, 2014. The duration of each workshop is 30 minutes and the registration is limited to 100 participants only. The workshop will be conducted by AKSHAY Aerosports (Pvt) ltd., Thrishur.

- i) Make a Plane and Take Home, workshop for kids.
- ii) Workshop on Rubber Powered Models.
- iii) Workshop on Model Rocketry.
- iv) Workshop on R/C Aeromodeling Basics.
- v) Workshop on Aerial Photography Using Quadcopters.





Sky is the limit !

COMMITTEES

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Rotary Club of Bangalore

"Rotary House of Friendship" 20. Lavelle Road, Bangalore 560 001 | Ph: 080 2212 0317 Email: rotarycb1934@gmail.com

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