

In Collaboration With



UAV Civil & Military INDIA 2017

Conference & Exhibition

Manekshaw Centre, New Delhi, India
25-26 September 2017



CENJOWS
Centre for Joint Warfare Studies

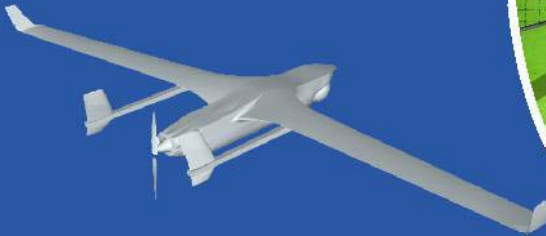


DIPM
Defence Infrastructure Planning & Management Council (India)



PHD CHAMBER
PROGRESS HARMONY DEVELOPMENT
Estd. - 1905

PHD Chamber of Commerce & Industry



Includes Indoor Flying Demonstration Facility

The First and Longest Running UAV Event in India

- Unmanned aerial vehicles • Rules & regulations
- Control/guidance systems • Electro-optics • Payloads
- Target vehicle • Training and simulation • UAV components & accessories • Ground support equipment

Exhibition Partner



Supported by



Contact: +91-9582649664
www.imrmedia.in/events



AeroVironment's RQ-11 Raven



Searcher Mk II

Seventh Edition - UAV India 2017 Civil & Military

The seminar will focus on the development, military and civil employment and potential of UAVs in India, including unmanned combat air vehicles, micro and mini UAVs, payloads (sensors, survey & surveillance equipment, EW, weapons), ground stations (data links, launch and recovery systems), aerial targets and maritime unmanned systems.

Military Uses of UAVs

The armed forces are convinced that UAV technology is very useful and successful in different types of operations. In addition, maritime operations, as well as surveillance and reconnaissance operations in India are boosting the demand for medium altitude long endurance UAVs and tactical UAVs

The infantry has decided to scale three mini UAVs to every infantry battalion. Within the next three years the Indian defence ministry will stage five additional tenders for the purchase of a combined 600 mini UAS systems to be operated by the air force, infantry and artillery units and the federal police. These deals will be worth a total of \$1.25 billion, with all production to be performed in India.

The Indian military depends heavily on UAVs for surveillance. The requirement has become more pronounced for the years ahead, and the IAF alone plans to buy about 300 additional UAVs, including combat rotary and micro-UAVs.

While the requirements are clear, the moot point is what the road map for their procurement. This seminar will address these issues.

Civil Uses of UAVs

The rapid development of UAVs promises to change the way a host of services will be delivered in the security, transport, gas, oil, mining, agriculture, survey & mapping, disaster management and specially the infrastructure sector. With versatile payloads like high-resolution cameras, sophisticated sensors and array of functions, with increased endurance, the boundaries of employment of UAVs will only expand through innovation and ingenuity. For example, in the gas and oil sector, they can assist in leak detection, inspection, monitoring, collection of data and so on. Three-axis stabilized, high-resolution still and video cameras, over 10x optical zoom. Thermal FLIR, near-IR, CO2 sensors, methane sensors, hydrocarbon sensors and air quality samplers payloads now help in generating GIS-tagged images, terrain analysis, video analytics, remote sensing, topography, thermography and so on.

Technology has reached a point where UAVs provide clear economic benefits for a wide range of applications over traditional alternatives. In addition UAVs will replace resources involved in "dull, dirty and dangerous" work.

Of course, regulations and safety measures have to mature. It is hoped that these and the development of the complete eco-system will keep pace with the speed at which manufacturers UAVs are being commercially made available.



UAV India 2017 Agenda

DAY 1 - MILITARY AGENDA



UAV ROLES AND REQUIREMENTS

The Indian Armed Forces and Paramilitary will present their plans and requirements.

EMERGING TECHNOLOGIES AND INDUSTRY CAPABILITIES

Industry speakers will present their capabilities in UAVs, payloads, control/guidance systems, Electro-optics, UAV components & accessories, Training and simulation and Ground support equipment.



Defence Minister Manohar Parrikar inaugurated UAV India 2016

RESEARCH & DEVELOPMENT

DRDO scientists and industry speakers will present the present state of current and future UAV projects.

DAY 2 - CIVIL AGENDA

REGULATION, INSURANCE & TRAINING

The key to getting this industry off the ground. Knowing what is legal and safe.

BLUE LIGHT & EMERGENCY SERVICES

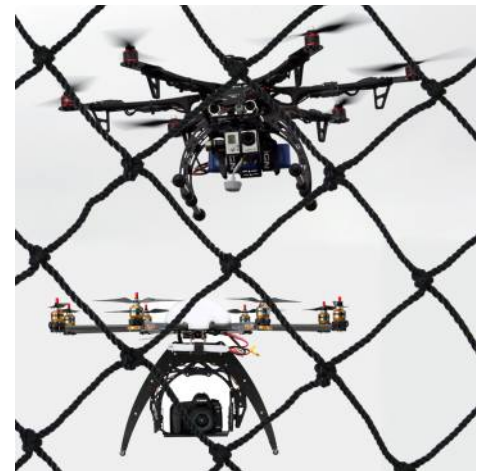
Police, crowd control, traffic supervision, fire services, medical assistance, disaster management, rescue, event management.

MAPPING, SURVEYING & GIS

Mapping, GIS and geospatial applications and case studies.

UTILITIES AND INFRASTRUCTURE

UAV applications across oil and gas, utilities, transport, agriculture and other related sectors.



QUADCOPTER, MINI AND MICRO UAVs

Continuous demonstrations to show manoeuvrability, and precision flying in a controlled environment. Video screens and obstacles will add to audience interest.

Why You Should Attend



Who will you meet?

Military - officers dealing with:

- UAVs in Army, Navy, Air Force, Paramilitary
- Border management
- Surveillance; BSF, ITBP, CRPF, NSG
- Maritime & Coastal security; Coast Guard
- Critical National Infrastructure
- Special Operations
- Combat engineering, mining, bridging.
- Procurement of UAVs
- Target Acquisition
- Training and simulation companies
- UAV operators
- Operational commanders
- Research & Development; DRDO

Civil - officers dealing with:

- Government officials from DGCA, Civil Aviation Ministry
- Officials from the Science & Technology Ministry
- Officers from National Disaster Management Authority
- Police, Law enforcement, traffic management and security
- Conservation, Environmental, pollution control organisations
- Critical National Infrastructure
- Procurement officers
- Firefighting services
- Agriculture and forestry
- Oil and gas
- Emergency Services
- Media and Broadcasting
- Mining
- Surveying and mapping
- Photographers
- Engineering students
- UAV enthusiasts

UAV India has developed as a well-attended and eagerly awaited annual conference & exhibition. Built on IMR Media's well-known quality of events, UAV India promises to bring excellent networking and business opportunities, as well as insight, to the unmanned vehicles community.

Exhibition

UAV India 2017 will bring together Indian and international vendors, government delegates, civil and armed forces officers, developers, users, technical experts and students to interact and identify requirements, projects & programmes, technologies and products on offer in the market. It will also promote the proactive participation of the industry in the development of unmanned aerial vehicles.

UAV India 2016 is an ideal opportunity to meet key military/ civil/ government decision makers, end users of UAVs/ drones and the world's leading manufacturers.

Opportunities

A wide range of branding, exhibition, partnership and sponsorship opportunities are on offer, allowing your organisation to get the most out of this key event in the unmanned aerial vehicles calendar.

Who will be exhibiting?

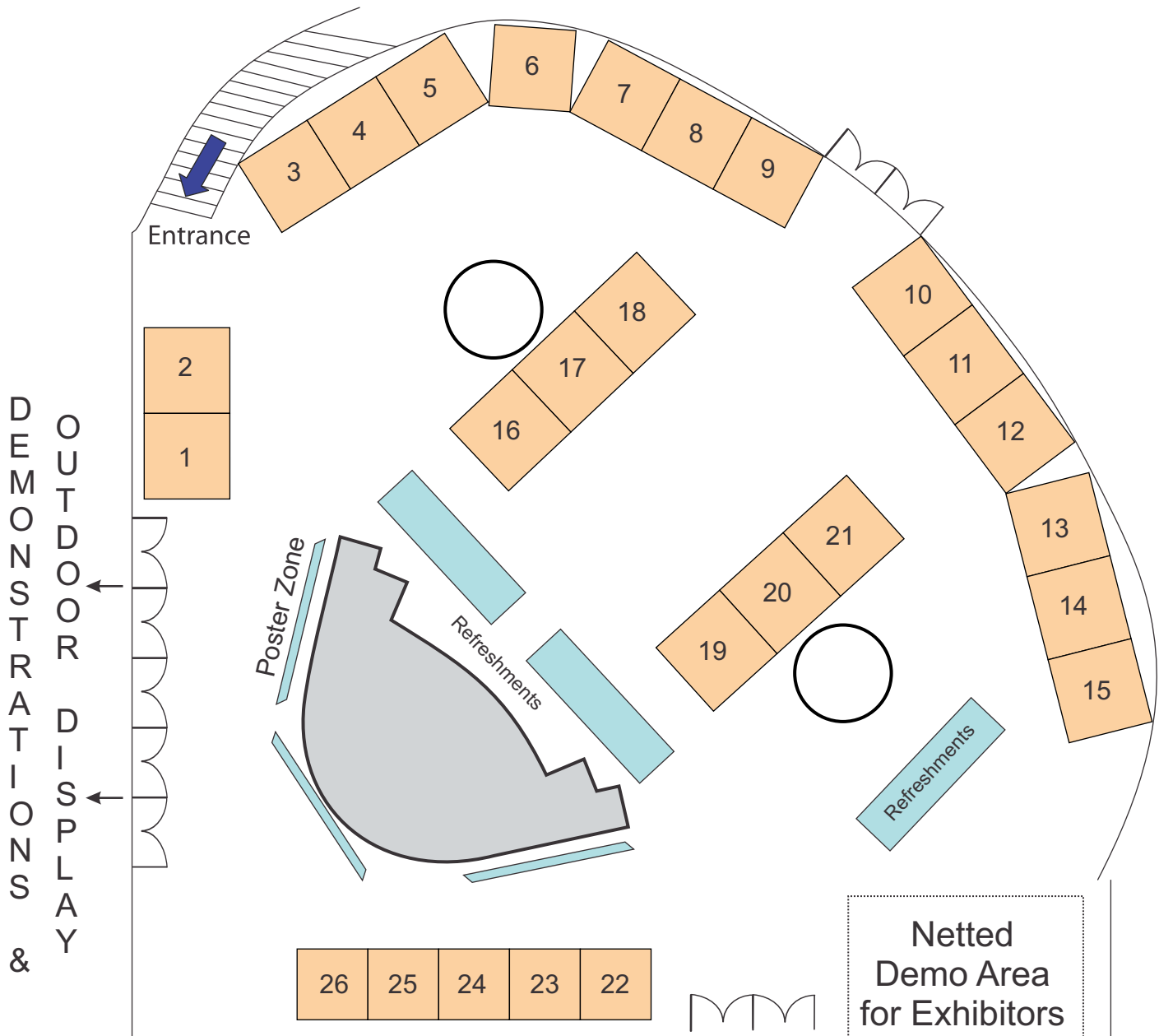
- UAV manufacturers
- UAV component & accessories suppliers
- Payload manufacturers and suppliers
- Integrated systems suppliers
- Control/guidance systems suppliers
- Electro-optics/IR suppliers
- Ground support equipment
- Training and simulation providers
- Electronic warfare systems suppliers
- Target vehicle suppliers
- Weapons systems providers
- UAV associations

Special Workshop with Decision-Makers

On Day 2 of the event, a special workshop can be organised with select delegates involved in decision making and procurement. Sponsors and exhibitors will be consulted.

Manekshaw Centre, Delhi Cantt





Display Stands

- For each stand of size 3x3m - One display table, two chairs, one literature stand, dustbin, three lights and one 5/15A electrical socket will be provided.
- For each stand of size 2x2m - One display table, two chairs, dustbin, two lights and one 5/15A electrical socket will be provided.
- Additional furniture and LCD panels may be ordered through the contractor's catalogue.
- Raw indoor open space for customised construction is not available.
- All refreshment breaks and lunch will be organised in the exhibition area.

Key

-  Available
-  Confirmed
-  Refreshment Area

WHAT'S NEW IN 2017



DEMO ZONE

A safe, netted large area on the exhibition floor where exhibitors who book 30-minute sessions demonstrate their UAVs.

This year, the zone will include an obstacle course, allowing our show partners to demonstrate the agility of their platforms, as they navigate themselves through, around and over a variety of zone features.

Display screens are also being added, streaming real-time footage directly from the UAV's sensors. Audiences will see first-hand, the accuracy and efficiency of UAV collated data output.

To book a slot in the Demo Zone email chetan@imrmedia.in

USER & UNIVERSITY ZONE

We encourage UAV users and researchers to take a small space in our user & university zone. This ever-popular part of the floor is a great space to share ideas and meet innovators and to find out how new technologies are being combined in imaginative ways.

POSTERS DISPLAY

A first for 2017, the poster zone is open to researchers, academics, and individuals who have a particular project or research area that they'd like to share with the industry. To book a slot in the poster zone, please email chetan@imrmedia.in.

UAV India 2017 Advisory Committee

Chairman

Dr V K Saraswat, Member NITI Aayog and Chief Patron DIPM Council (India).

Members

Lt Gen Vinod Bhatia, PVSM, AVSM, SM, Retd, Director Centre for Joint Warfare Studies.

Lt Gen Sanjeev Madhok, PVSM, AVSM, VSM, Retd, former GOC-in-C Army Training Command.

Lt Gen VK Saxena, PVSM, AVSM, VSM, Retd, former DG, Air Defence & Chairman (Innovation) DIPM Council (India).

Air Marshal PK Roy, PVSM, AVSM, VM, VSM, Retd, former AOC-in-C Andaman and Nicobar Command.

Arvind K Arora, IDSE (Retd), Former DG (Pers), Military Engineer Services & Director General DIPM Council (India)

J Bhattacharjee, Prof Amity University and Chairman (Technical), DIPM Council (India).

A K Singh, IDSE, Director General (Personnel), Military Engineering Service.

A Arul Dhas, President, IDSE Association.

Dr Sudipto Mukherjee, Professor IIT-Delhi.

UAV India 2017 Organising Committee

Maj Gen Ravi Arora, CEO IMR Media

Pradeep Agrawal, IDSE, President & CEO (Hony), DIPM Council (India).

Girraj Goyal, IDSE, Secretary General (Hony), DIPM Council (India).

Dr Pankaj Chandna, President Pan-NIT Alumni Forum & Professor, NIT Kurukshetra.

Anup Srivastava, DIPM Council (India).

For further details on Sponsorship, Exhibiting and participation as delegates, please contact:

IMR Media Pvt Ltd

8A Ashok Marg, Silokhra, Gurgaon 122001, India,

Email: response@imrmedia.in Tel: +91-9582649664

Overseas companies may please contact:

Alexander Giles | Tel: +44 (0)207 193 5444 | Mob: +44.7919337723 | E-mail: alexander.giles@me.com

Indian companies may please contact: **Chetan Sharma** | Mob: +91-9582649664 | Email: chetan@imrmedia.in