





22 March 2024 Seminar & Expo

Manekshaw Centre, New Delhi













Hand-held Devices

- Infrared (IR) cameras
- · Laser rangefinders
- Night vision goggles
- Thermal imaging cameras
- Heads-up displays (HUDs)
- Infrared aiming lasers

Ground Surveillance Systems:

- Early Warning Radar, Ground Surveillance Radar.
- Thermal Cameras, Infrared Sensors, Acoustic Sensors.
- Surveillance Vans, Mobile Radar Units.
- Perimeter intrusion detection systems
- · Security cameras
- Motion sensors

Access control systems

Space Surveillance Systems:

- Imaging, Communications Satellites
- Electronic Intelligence Satellites.
- Optical Space Telescopes, Radio Space Telescopes.
- Satellite-based Infrared Sensors, Radio Frequency Sensors.

Aerial Surveillance Systems:

- Electro-optical cameras
- Laser designators
- Synthetic aperture radar (SAR)
- Electro-optical/infrared (EO/IR) sensors
- Synthetic aperture radar (SAR)
- Electronic intelligence (ELINT) sensors

- Communications intelligence (COMINT) sensors
- Aerial imagery
- Thermal imaging cameras
- Light Detection and Ranging (LiDAR)
- Multispectral Camera

Underwater Surveillance Systems:

- Remotely Operated Underwater Vehicles (ROVs)
- Autonomous Underwater Vehicles
- · Active Sonar, Passive Sonar.
- Segmented cylinder transducers
- Low-frequency Tonpilz transducers
- Electro-optical cameras
 underwater imaging
- Underwater spectrophotometry

14th Edition - Longest Running Surveillance & E-O Event



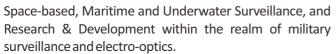
MILITARY SURVEILLANCE & ELECTRO-OPTICS

NETWORK - INFLUENCE - LEAD



Centre for Joint Warfare Studies

he rapidly evolving landscape of military surveillance and electrooptics demands a collaborative platform where armed forces, defense industry professionals, and researchers can converge to explore the latest advancements, share insights, and foster innovation. To focus on this need, the event will include Terrestrial, Aerial and





The primary objectives of the seminar are to:

- (a) **Review Latest Advancements.** Provide a detailed overview of the cutting-edge technologies and innovations in the field of military surveillance and electro-optics.
- (b) Facilitate Collaboration. Bring together armed forces and the defense industry to facilitate meaningful discussions, enabling them to better understand each other's requirements and capabilities.
- (c) **Knowledge Exchange**. Foster a platform for knowledge exchange, where participants can share experiences, best practices, and lessons learned.
- (d) Research & Development Showcase. Highlight the latest developments in research and development, encouraging collaboration between academic institutions, research organizations, and industry players.

Seminar Structure

The seminar will be organized into four key segments, each focusing on a specific aspect of military surveillance and electro-optics.

- (a) **Terrestrial Surveillance.** To include:
 - (i) Advances in Ground-Based Radar Systems.
 - (ii) Unmanned Ground Vehicles for Surveillance.
 - (iii) Night Vision Technologies for Land Forces.
 - (iv) Sensor Integration and Data Fusion on the Battlefield.
- (b) Aerial and Space-Based Surveillance. To include:
 - (i) Satellite-based Earth Observation Systems.
 - (ii) High-Altitude Long-Endurance (HALE)



Unmanned Aerial Vehicles.

- (iii) Advancements in Airborne Reconnaissance Systems.
- (iii) Space-based Imaging Technologies for Military Applications.
- (c) Maritime and Underwater Surveillance. To include:
- (i) Underwater Drones and Autonomous Submersibles.
- (ii) Naval Surveillance Radar Systems.
- (iii) Satellite-based Maritime Domain Awareness.
- (iv) Sonar Technologies for Submarine Detection.
- (d) **Research & Development**. To include:
 - (i) Emerging Technologies in Electro-optics.
 - (ii) Artificial Intelligence and Machine Learning in Surveillance.
 - (iii) Materials Innovation for Stealth Technologies.
 - (iv) Quantum Technologies in Military Surveillance.

Expected Outcomes

- (a) **Enhanced Collaboration**. Forge new partnerships and strengthen existing collaborations between armed forces and the defense industry.
- (b) **Informed Decision-Making**. Equip participants with the knowledge needed to make informed decisions regarding procurement, strategy, and technology adoption.
- (c) **Networking Opportunities.** Provide a platform for networking, allowing participants to connect with experts, researchers, and industry leaders in the field.
- (d) **Future Roadmap**. Contribute to the development of a shared vision and roadmap for the future of military surveillance and electro-optics.

The seminar on Military Surveillance & Electrooptics aims to be a catalyst for progress in the field, fostering collaboration and innovation among key stakeholders. By bringing together the armed forces, defence industry, and research community, the event will contribute to the advancement of technologies that play a critical role in ensuring the conduct of successful operations.



SEMINAR PROGRAMME



Friday, 22 March 2024

SESSION 1 - INAUGURAL SESSION (0930 - 1045 hrs)

Welcome Address Director, Centre for Joint Warfare Studies

Inaugural Address Gen Anil Chauhan, PVSM, UYSM, AVSM, SM, VSM, Chief of Defence Staff Keynote Address Air Mshl Surat Singh, AVSM, VM, VSM, Director General Air Ops, Air HQ.

Special Address Dr BK Das, OS & DG Electronics & Commincation (ECS), DRDO Industry Perspective Release of Report EY-IMR Knowledge Paper on Surveillance & Electro-optic Devices

1045 – 1115 hrs Refreshments & exhibition.

SESSION 2 – TERRESTRIAL SURVEILLANCE (1115 – 1315 hrs)

Chairperson: Addl DG Information Systems, Army HQ.

1115 – 1130 hrs Introduction and Opening Remarks by the Chairman.

1130 – 1145 hrs Surveillance of the Battlefield and present status of Project Sanjay. Brig Ops, Artillery

Directorate, Army HQ.

1145 – 1200 hrs Challenges in Border Surveillance at Night. **IG (Ops) Border Security Force**.

1200 – 1215 hrs Intelligence Gathering with EO Sensors for Today's Missions. **Speaker from ECE, DRDO.**

1215 – 1230 hrs Latest developments in tracking threats and C&R for Air Defence. Col Sameer Babu, Colonel

(C&R), Army AD Directorate, Army HQ.

1230 – 1245 hrs Industry presentation.

1245-1300 hrs Industry presentation.

1300 - 1315 hrs Q&A/ Discussion.

1315 – 1415 hrs Lunch & exhibition

SESSION 3 – AERIAL AND SPACE BASED SURVEILLANCE (1415 – 1615 hrs)

Chairperson: Air Vice Mshl Rajiva Ranjan, ACAS Ops (Space), Air HQ

1415 – 1430 hrs Introduction and Opening Remarks by the Chairman.

1430 – 1445 hrs UAV sensor payloads for persistent surveillance. Speaker from Army Aviation Directorate.

1445 – 1500 hrs Space-based ISR for early warning. Speaker from Defence Space Agency

1500 – 1515 hrs Latest developments and requirements for Tactical Recce (EO, SAR, IR Search). **Speaker from**

DG Ops Air, Air HQ.

1515 – 1530 hrs Need to augment airborne surveillance (AEWS). Speaker from DG Ops Air, Air HQ.

1530 – 1545 hrs Industry presentation.

1545 – 1600 hrs Industry presentation.

1600 - 1615 hrs Q&A/ Discussion.

SESSION 4 – MARITIME SURVEILLANCE, RESEARCH & DEVELOPMENT (1615 – 1730 hrs)

Chairperson: Cmde Randeep Singh Randhawa, Director Naval Ops, Naval HQ

1615 – 1630 hrs Introduction and Opening Remarks by the Chairman.

1630 – 1645 hrs surveillance against aerial, surface and underwater threats. **Speaker from Indian Coast Guard.**

1645 – 1700 hrs Integrated employment of P8I, MQ9 and MH-60R for maritime surveillance. Speaker from

ACNS (Air), Naval HQ.

1700 – 1715 hrs Making soldiers invisible. **Speaker from IIT-Bombay.**

1715 – 1725 hrs Closing Address. Lt Gen Sunil Srivastava, AVSM, VSM**, Retd, Director, CENJOWS

1725 – 1730 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Retd, Chief Editor Indian Military Review.

1730 hrs Refreshments and close.

Rate Card

DELEGATE PASS

VALID FOR FULL DAY INCLUDES LUNCH

Rs 5,90

Delegate Pass Price includes:

- 1. Attending all sessions
- 2. Visit exhibition booths.
- 3. Interacting with sponsors, exhibitors, speakers & delegates
- 4. All refreshments and lunch
- 5. Video link of proceedings after the event.

Transferable and refundable if cancelled 48 hrs before the event.

BRONZE SPONSOR

MULTIPLE BENEFITS WITH

SPEAKING AND BRANDING

1. Speaking Slot 15 mins

2. 3x3m furnished octonorm booth

3. Five Delegate Passes and three

Exhibition staff Passes

4. Full Page Advt in Event Guide

5. Company Profile (500 words

with logo,contact details) in Event

Guide

6. Two company literature items/gift in

Delegate Bags

7. Delegate List with contact details

after the event.

8. Video of speakers' presentations

after the event

9. Sponsor Logo on event promotion

10. Logo on all marketing materials

11. Banner on Event website

12. Company Logo at Venue,

Lobby and on Stage as Sponsor

13. Fascia, logo, 1 table, 4 chairs,

carpet, 3 lights, power box, dustbin at

booth.

Rs 354.0

ECO STARTUP EXHIBITION BOOTH

LOW COST FEATURE RICH

- 1. One furnished octonorm exhibition booth 2X2M.
- 2. Company profile 200 words
- with Logo, contact details in event guide.
 - 3. Half page advt in show guide 4. Two delegate passes
 - 5. Contact data of all delegates and video links after the event.
- 6. Fascia, logo, 1 table, 2 chairs, carpet, 2 lights, power box, dustbin at booth

ADDITIONAL BRANDING OPPORTUNITIES

- Delegate Lanyards (non-exclusive) with Company Logo both sides Rs 118,000
- Registration Sponsor with Company Logos at all counters
- Luch Sponsorship with Banner
- Standee banner (3x6ft) at Entrance, each
- Banner (8x10ft) at Entrance, each

- Rs 118,000 Rs 94.400
- Rs 10,000

Rs 25,000

SILVER SPONSOR

MULTIPLE BENEFITS WITH SPEAKING AND BRANDING

- 1. Speaking Slot 15 mins
- 2. 4x3m furnished octonorm booth
- 3. Six Delegate Passes and four **Exhibition staff Passes**
- 4. Full Page Advt in Event Guide
- 5. Full Page Company Profile (with logo and contact details) in **Event Guide**
- 6. Two company literature items/gift in **Delegate Bags**
- 7. Delegate List with contact details after the event.
- 8. Video of speakers' presentations after the event
- 9. Sponsor Logo on event promotion 10. Logo on all marketing materials
 - 11. Banner on Event website
 - 12. Company Logo at Venue,

Lobby and on Stage as Sponsor 13. Fascia, logo, 2 tables, 6 chairs,

carpet, 4 lights, power box, dustbin, magazine rack at booth.

PREMIUM BOOTH

FOR MORE FOOTFALLS

Rs 236,000

- 1. One furnished octonorm exhibition booth 3X3M.
- 2. Company profile 300 words with Logo, contact details in event guide
- 3. Half-page advt in Event Guide
- 4. Three Delegate Passes and three Exhibitor passes
 - 5. Contact data of all delegates and video links after the event.
 - 6. Company Logo at Venue, Lobby and on Stage as Sponsor
 - 7. Distribute one Company literature item in Delegate Bags
- 8. Fascia, logo, 1 table, 4 chairs, carpet, 3 lights, power box, dustbin at booth.

GOLD SPONSOR

MULTIPLE BENEFITS WITH SPEAKING SLOT

- 1. Speaking Slot 15 mins
- 2. 6x3m furnished octonorm booth
 - 3. Twelve Delegate Passes
- 4. Full Page Advt in Event Guide
- 5. Full Page Company Profile (with logo, contact details) in Event Guide
- 6. Two company literature items/gift in Delegate Bags
- 7. Delegate List with contact details after the event.
- 8. Video of speakers' presentations after the event
- 9. Sponsor Logo on event promotion 10. Logo on all marketing materials
 - 11. Banner on Event website
- 12. Prominent Company branding at Venue, Lobby and on Stage as Gold Sponsor
- 13. Buntings on 4 poles at venue. 14. Custom Fascia, logo, 4 tables, 8 chairs, carpet, 6 lights, 2 power boxes, dustbin, 42" LED at booth.

Contact IMR Media for additional furniture, LEDs, customisatisation an Backdrop flex/ vinyl baneers

IMR Media Pvt Ltd