



# CENTRE FOR LAND WARFARE STUDIES PROGRAMME - MILITARY TRAINING & SIMULATORS 2019

## Thursday, 1 Aug 2019

0800 – 0930	hrs	Refreshments & Exhibition
<b>Inaugural Session (0930 - 1050 hrs)</b>		
0930 – 0940	hrs	Welcome Address. <b>Lt Gen VK Ahluwalia</b> , PVSM, AVSM**, YSM, VSM, Director, CLAWS.
0940 – 0950	hrs	Inaugural Address. <b>Lt Gen Devraj Anbu</b> , PVSM, UYSM, AVSM, YSM, SM, Vice Chief of the Army Staff. (tbc)
0955 – 1015	hrs	Keynote Address. <b>Lt Gen PC Thimayya</b> , VSM, GOC-in-C Army Training Command.
1015 – 1025	hrs	Special Address. <b>Lt Gen SS Hasabnis</b> , PVSM, VSM, Deputy Chief of Army Staff.
1025 – 1035	hrs	Theme Address. <b>Lt Gen AS Kler</b> , VSM, Director General Military Training, Army HQ.
1035 – 1040	hrs	Release of EY-IMR Report on Military Simulation & Training Market.
1040 – 1050	hrs	Industry Perspective. <b>Col KV Kuber</b> , Director Defence & Aerospace, Ernst & Young.
1050 – 1120	hrs	Tea & Exhibition.
<b>Session 1 - Emerging Technologies * Industry Presentations (1120 – 1330 hrs)</b>		
Chairman: <b>Maj AK Channan</b> , SM, ADG Army Design Bureau & Perspective Planning.		
1120 – 1130	hrs	Introduction of panelists and Chairman's opening remarks
1130 – 1150	hrs	Industry Sponsor's Presentation. <b>ARI Simulation</b>
1150 – 1210	hrs	Industry Sponsor's Presentation. <b>Panasonic India</b>
1210 – 1220	hrs	Industry Sponsor's Presentation.
1220 – 1240	hrs	Industry Sponsor's Presentation.
1240 – 1300	hrs	Industry Sponsor's Presentation.
1300 – 1330	hrs	Panel discussion.
1330 – 1430	hrs	Lunch & Exhibition
<b>Session 2 - Research &amp; Development (1430 – 1550 hrs)</b>		
Chairman: <b>Maj Gen Shammi Raj</b> , SM, ADG Perspective Planning, Army HQ.		
1430 – 1440	hrs	Introduction of panelists and Chairman's talk "Indian Army's AI Philosophy and the Way Forward."
1440 – 1500	hrs	<b>Centre for Artificial Intelligence Research</b> . "Artificial Intelligence for Training." <ul style="list-style-type: none"> <li>• Emerging Battlespace</li> <li>• Cognitive Processes and Predictive Technologies</li> <li>• Expert Systems and Knowledge Management</li> <li>• Augmented Reality</li> </ul>
1500 – 1520	hrs	<b>Aeronautical Development Establishment, DRDO</b> . "Simulators for UAVs and LCA." <ul style="list-style-type: none"> <li>• Flight Simulators</li> <li>• ADE Simulator Activities</li> <li>• Full Mission Simulator for LCA</li> <li>• Real Time Simulator for Various UAVs</li> </ul>
1520 – 1540	hrs	<b>Combat Vehicles R&amp;D Establishment, DRDO</b> . "Main Battle Tank Simulator"
1540 – 1550	hrs	Questions & Answers
<b>Session 3 - Wargaming &amp; Virtual Reality Simulation (1550 – 1600 hrs)</b>		
Chairman: <b>Maj Gen Vinod Sharma</b> , MGS (Doctrine), Army Training Command.		
1550 – 1600	hrs	Introduction of panelists and Chairman's opening remarks
1600 – 1620	hrs	"Computerised Wargaming in IA." <b>Col Manik Trivedi</b> , Dy Commandant, WARDEC. <ul style="list-style-type: none"> <li>• Present and Future Wargames in Indian Army.</li> <li>• Federation of Computerised Wargames</li> <li>• Ingestion of AI in Futures Wargames</li> <li>• COTS Wargaming solutions in the world</li> </ul>
1620 – 1640	hrs	"Simulation-based Training in Indian Army". <b>Commandant Simulator Development Division</b> . <ul style="list-style-type: none"> <li>• Simulation Based Training Quantification Method.</li> <li>• Development of Augmented Reality/ Virtual Reality Projects.</li> <li>• Ingestion of AI in Simulations.</li> <li>• Robotics projects for IA.</li> </ul>
1640 – 1650	hrs	Q&A/ Discussion.
1650 – 1715	hrs	Refreshments.



# CENTRE FOR LAND WARFARE STUDIES PROGRAMME - MILITARY TRAINING & SIMULATORS 2019

## Friday, 2 Aug 2019

0830 – 0930 hrs Refreshments & Exhibition

### Inaugural Session (0930 - 0950 hrs)

0930 – 0950 hrs **Inaugural Address. Lt Gen IS Ghuman**, PVSM, AVSM, Deputy Chief of Army Staff (IS & T).

### Session 4 - Land Warfare Simulation and Training (0950 – 1130 hrs)

Chairman: **Commandant, Infantry School, Belgaum.**

0950 – 1000 hrs Introduction of panelists and Chairman's opening remarks

1000 – 1020 hrs **Brig ADS Auja**, SM, VSM, Brig Infantry, "Simulators Planned for Infantry."

- Genesis, Employability and Necessity of Simulators
- Technical Scan of Infantry Specific Simulators
- Limitations of Simulators in Service
- User Perspective and Requirement

1020 – 1040 hrs **Brig Jaydeep Yadav**, Brig Training & Personnel, Artillery Directorate. "Artillery Training Simulators."

- Simulator Training in Artillery
- Present Status of Simulators in Artillery
- The Way Ahead

1040 – 1100 hrs **Col Rajiv Soni**, Col AD Training, AAD Directorate. "Simulators Required by the Corps of Army Air Defence."

- Current Simulator-based Training
- Training Challenges
- Emerging Issues and Outlook

1100 – 1120 hrs **Col Ketan Prasad**, Col Training, Mechanised Forces Directorate. "Simulators for the Mechanised Forces."

- Current Simulator-based Training
- Training Challenges
- Emerging Issues and Outlook

1120 – 1130 hrs Q & A/ Discussion

1130 – 1200 hrs Tea & Exhibition.

### Session 5 - Air Force and Flight Simulators (1200 – 1320 hrs)

Chairman: **ACAS Ops (Space)**, Air HQ.

1200 – 1210 hrs Introduction of panelists and Chairman's opening remarks

1210 – 1230 hrs Air Force Flight and non-flight Simulators. **Speaker from Air HQ.**

- Need for Simulators in IAF
- Utilisation Methodology
- Simulators of the IAF
- Future IAF Simulation Systems

1230 – 1250 hrs Army Aviation and Helicopter Simulators. **Speaker from Army Aviation Dte, Army HQ.**

- Difficulties in high fidelity simulation
- Current facilities
- Increase in simulator training and Future

1250 – 1310 hrs Naval Aviation and Non-flight Naval Simulators. **Speaker from Naval HQ.**

- Naval Tactical, Sensor and Weapon Systems Simulators
- Naval Seamanship simulators
- Ship handling, Maneuvering, Marine propulsion simulators
- Flight simulators

1310 – 1320 hrs Q & A/ Discussion

### Valedictory Session (1320 – 1340 hrs)

1320 – 1335 hrs Valedictory Address. **Lt Gen VK Ahluwalia**, PVSM, AVSM\*\*, YSM, VSM, Director CLAWS.

1335 – 1340 hrs Vote of Thanks. **Maj Gen Ravi Arora**, Chief Editor Indian Military Review.

1340 – 1515 hrs Lunch and close.