



SIMULATION-BASED TRAINING

THE KEY TO MILITARY OPERATIONAL CAPABILITY

LONDON / 22-23 NOVEMBER 2016

Military planners and policy makers, in addition to dealing with ongoing operations of various levels of intensity, face an increasingly unpredictable world which poses an unprecedented range of potential conflicts. Threats come from state and non-state actors, and emerge from breakdown and chaos in which there are not only 'good guys' and 'bad guys'. International alliances are temporarily formed for specific campaigns and may consist of both well integrated allies and of more loose cooperation with the enemy's enemy. Threats may come in many forms including conventional, irregular, and terrorist forces.

Countering such threats requires conceptual and operational agility, and demands high levels of operational capability, flexibility, and readiness, including the ability to act in concert with ad-hoc alliance partners and other government and international organizations. However, as military spending comes under increasing pressure, live training, particularly large scale and collective training, becomes increasingly unachievable. Nevertheless, high quality is essential when training to exploit the enormous capability of the latest generations of platforms, weapons, and systems, and forces often rely on training quality to compensate for lack of 'combat mass'.

Proven and emerging technologies now offer the capability to conduct much, if not most, operational training in simulators and synthetic networked environments, and there are many high quality training systems achieving excellent results. However, while there are often-stated aspirations for synthetic training, there is little overall vision and direction in bringing these together to meet the sorts of collective operational and defence capabilities the world situation demands. If the potential for synthetic training is to be realized, a more collective and coherent approach is needed.

This call for papers is your opportunity to shape the debate, and we will consider contributions in the following areas:-

- Roles of air power – including ground and seaborne air components- in the emerging world order and security environment to set the scene on what training is needed for, and in what theatres, situations, and alliances
- Synthetic Training as part of capability and readiness: UK, European and NATO perspectives, and the achievement of collective defence.

INSTRUCTIONS TO AUTHORS

The Organising Committee invites prospective authors to submit abstracts of original work for presentation at the conference.

Abstracts should be written in English and contain between 200-500 words, in pdf format or typed double spaced on A4 or 8 x 12 inch paper. Authors should submit their abstracts in electronic format only by **Friday 6 May 2016**. Selection will be made on the abstract content and applicability to the final published programme requirements.

Accepted scripts and presentations, fully cleared for publication and presentation, should be submitted by **Friday 21 October 2016**.

NB. Papers are preferred but are not mandatory. All written papers will be included in the conference proceedings and made available to delegates online or will be available to purchase through the Society's web pages. Accepted papers may also be considered for inclusion in the Royal Aeronautical Society's Aeronautical Journal, subject to the refereeing process.

It is important to note that all presentations and papers should not have been published previously and should avoid inappropriate sales and or marketing content.

The submission address for prospective papers to be included in the conference is anika.ved@aerosociety.com using reference #806

Technical enquiries should be sent to the Chairman of the Organising Committee via the RAeS Conference & Events Department. Email: anika.ved@aerosociety.com

KEY DATES AND DEADLINES

- Abstracts submitted by: 6 May 2016
- Authors notified by: 3 June 2016
- Programme Circulation: Mid June 2016
- Presentations / papers submitted: 21 October 2016
- Conference: 22-23 November 2016

CONFERENCE AND EVENTS DEPARTMENT

Royal Aeronautical Society
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CALL FOR PAPERS



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- Military decision making and judgemental training – serious games etc
- Force perspectives on simulation and training: rotary forces, fast jet AD and attack, air transport, air to air refuelling, E3, shipboard aircraft, etc
- The Live Synthetic Balance and the role of embedded training
- Mobile simulation: taking training to deployed forces, and forces at sea.
- Mission rehearsal: who, what, where, and how?
- Simulation in platform, weapons, and system testing and development
- Simulation in an end-to-end training system, from selection and recruitment to the front line
- Training device capability and fidelity; how good is good enough, and how is that validated?
- Training for simulator instructors, role players, and exercise staff.
- What can the military learn from civil flight crew standards and training methods, including:
 - Simulator specification, accreditation, and regulation,
 - SMS, TEM, CRM, TRMo EBT and training for competency. Operational Essential
 - Competency: adding depth and outcome measurement metrics to Mission Essential Competencies
- Collective and networked training issues, such as:
 - Identifying the 'training audiences', setting training objectives, and measuring achievement.
 - Training scenarios – who decides and validates involving higher and lower levels, and non-military players.
 - Security of Network technology; enabler or driver?

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- Establishing an Armed Forces cadre of simulator and synthetic training professionals
- Engineering and Maintenance training – role of simulation
- Test and Evaluation – role of simulation in designing, developing, testing and evaluating new equipment and systems.

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