

EAAW

ENGINE AS A WEAPON
International Symposium **VIII**



IMarEST LEARNED
SOCIETY EVENTS

Symposium Call for Papers



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Evolving intelligent platforms for the future battlespace

Tuesday 2 and Wednesday 3 July 2019

America Square Conference Centre, London, UK

The Aim

EAAW VIII aims to explore the reality of complex systems and equipment which cross department and platform boundaries. These ever more intertwined system of systems is pushing the naval design, support and operator communities to focus on evolving intelligent platforms for the future battlespace. At this pivotal moment for the industry, the traditional platform and combat engineering disciplines are being driven closer together by the rapid development of technology with an ever more complex and software driven landscape in which to operate.

EAAW VIII will bring together the international maritime community to update and discuss the current advances in evolving intelligent platforms for the future battlespace and the outlook and direction for the future. The Symposium will also join forces on Day One with MECSS 2019 with the aim to discuss the shared challenges for both the naval and commercial arenas.

EAAW VIII at a glance

- Over 100 expert participants
- Over 18 peer reviewed technical papers
- International attendance
- Continuing Professional Development (CPD) approved by IMarEST
- Speakers' Corner for further debate and discussion
- Excellent networking opportunities including organised reception
- NEW for 2019 - EAAW VIII will be held in parallel to IMarEST's MECSS 2019 and will hold joint sessions on Day One

**“... inspiring innovation
across the breadth of the
maritime domain.”**

Cdr Ian Hassall RN
Chairman, EAAW VIII



Visit EAAW's website for full details including the joint sessions with MECSS:
www.eaaw.org.uk

EAAW VIII themes

- Digital systems design
- Integration issues particularly with upgrading older platforms
- Sea Ceptor
- Railguns
- Laser directed energy
- Cyber
- Future power requirements
- Total ship integration
- Equipment specification
- Simulation and modelling
- Weapon control support systems
- Unmanned systems
- Artificial intelligence/3D modelling
- Virtual reality
- UXV
- Partial discharge

MECSS 2019 themes *Inspiring safer systems at sea*



Human Centred Design

- Competences of ship and shore-based staff
- Human machine system interface
- Maintainability
- Safety critical software systems – regulations/standards
- Alert management
- Operability
- Levels of autonomy and software standards
- Regulation of AI / ML algorithms
- Hazards and safety cases
- Legal implications for remote control

Safer Energy Management

- Battery technology
- Management of HV and LV systems
- Electrical safety (arc flash, electric shock)
- Electrical reliability/availability (partial discharge)
- Control and integration of energy sources
- Cyber-security of data sources
- Hazards and safety cases
- Energy sources (H2, methane, LNG, wind, nuclear)
- Energy efficiency – higher efficiency

Submit your synopsis
via email:
eaaw@figsevents.co.uk

Key Dates

Close of Call for Papers

Monday 4 March 2019*

Notification to successful authors
March 2019

Receipt of full technical papers
Monday 13 May 2019

*Synopses will be accepted after this date subject to availability within the symposium programme.

A shared vision

New platforms in both the naval and commercial arenas need sensors, internal systems and personnel to work in unison to deliver the capability expected. We can no longer look at boundaries between allies, platforms and departments as an excuse for not maximising the delivery of maritime capability. The ship systems need to be safe, efficient, reliable, protected from cyber-attack and work as a single overall system. The blurring of system boundaries will require revised departmental boundaries, new manning and training philosophies and new operating procedures.

The clear synergies between EAAW VIII and the Marine Electrical and Control Systems Safety Conference, two of IMarEST's seminal Learned Society events, will be explored during Day One, with Day Two splitting into two parallel sessions focussing on topics specific to each event. At the end of Day One, a Plenary Debate involving all participants will discuss today's challenges. In addition, the timings for the refreshments and the networking programme will be synchronised for both events throughout the two days ensuring maximum interaction between all participants.

Visit www.mecss.org.uk for full details of MECSS 2019.

Submission process

The Technical Advisory Committee welcomes synopses from all areas of the industry. Papers will be reviewed and selected on the basis of technical quality, relevance and their potential for generating discussion. Papers will be presented in English. Prospective authors are invited to submit titles of papers, keywords and synopses of between 250 and 500 words (text only – please do not submit pictures, figures, graphs, equations etc) to the EAAW VIII Technical Advisory Committee via email eaaw@figsevents.co.uk.

Selected authors will be invited to submit final papers of up to 4000 words by Monday 13 May 2019. Please note that all papers are peer reviewed and certain papers may be included in other IMarEST publications after the event subject to Author(s) permission.

Who will attend?

Navies, commercial and military ship operators, designers and shipbuilders, classification societies, machinery and equipment manufacturers, universities and other defence related organisations.

Sponsorship and Exhibition

EAAW VIII and MECSS 2019 provides the ideal platform to reach potential customers directly – both face to face with attendees and to the wider audience who visit the website and see the promotional material. Visit www.eaaw.org.uk/sponsors to find full details of both the exhibition and sponsorship opportunities.

Images and videos from past EAAW symposia can also be viewed via the website at www.eaaw.org.uk/gallery



EAAW VIII/MECSS 2019 is organised by FIGS Events Limited on behalf of IMarEST

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For further information visit www.eaaw.org.uk