

**2013 Directed Energy Modeling and Simulation Conference**  
**Call for Papers**  
23 October 2012

## **Introduction**

The 2013 Directed Energy Modeling and Simulation Conference will be held at the Hyatt, Monterey, CA, and the Naval Postgraduate School, Monterey, CA, on 8-12 April 2013 as a part of the Directed Energy (DE) Systems Symposium.

## **Modeling and Simulation Conference:**

The modeling and simulation (M&S) of DE weapons, devices, systems, engagements, and missions is expanding in importance as DE systems are being developed and acquired. The heavy dependence upon M&S throughout the lifecycle of modern systems makes it a critical component for acquisition and transition success.

The DE M&S Conference is constantly striving to enhance technical excellence while providing a forum to encourage interaction with other members of the DE community. To that end, the overall number of presentations may be limited and papers screened for new and innovative work. An extended abstract is encouraged to allow the author to fully describe their planned paper. Submissions will also be considered for the poster session.

An all-conference, collaborative poster session will be scheduled that will not conflict with other sessions to enable detailed exchanges between colleagues. This may include separate areas for unclassified, FOUO, and classified posters. Authors of high profile papers may be invited to present a poster paper as well as make an oral presentation.

The DE M&S Conference will publish all presentations (and papers) that have been properly released by a sponsoring government agency and have proper classification markings, as a part of the DE Systems Symposium proceedings. The proceedings will be organized as follows to allow for maximum distribution of the technical data:

- Unclassified / Distribution A (Public Release)
- Unclassified / Distribution A and C
- Unclassified / Distribution A, C, and D
- Secret / Distribution C
- Secret / Distribution D

## **2013 DE Systems Symposium**

The DE Systems Symposium focuses on systems aspects of DE in a limited-attendance environment. The DE Systems Symposium consists of co-located technical sessions organized by separate conferences / technical workshops, with joint technical and plenary sessions to encourage discussion outside narrow technical limits. The conferences are listed on the Symposium Web page.

The DE Systems Symposium will assemble scientists and engineers interested in DE technology and weapons applications. The objective of the DE Systems Symposium is to provide a forum for the interchange of ideas and to focus on near-term

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demonstrations of DE technology. The theme of this year's DE Systems Symposium is *Moving Forward: Making DE Happen*.

The DE Systems Symposium will be conducted up to the SECRET level and attendance will be limited to U.S. citizens only. Unclassified and Limited sessions will also be conducted.

## **Call for Papers**

Papers are currently solicited for the 2013 DE M&S Conference. The Scope of the Conference encompasses the following:

- Physics and engineering, engagement, mission, and campaign level M&S
- Live, virtual, and constructive M&S
- High Energy Laser (HEL) & High Power Electromagnetic (HPEM) DE weapon, system, and subsystem modeling
- Classified and unclassified topics
- Government, academic, and industry viewpoints
- Technology, modeling, and analysis techniques
- Model fidelity assessment and V&V activities
- DE M&S in test and evaluation

In keeping with the Systems Symposium theme: "*Moving Forward: Making DE Happen*" topics describing modeling, simulation, and analysis activities in the following focus areas are particularly encouraged:

- Application of M&S to virtual prototyping of DE systems
- Targeted comparisons of DE and Kinetic weapon performance across existing DoD missions
- Considerations of future missions requiring DE in combination with Kinetic weapons
- Novel uses of High Performance Computing in DE M&S
- Examples of single, rapidly user-tailorable DE systems capable of scaling effects from non-lethal to lethal and other multi-mission capabilities
- Modeling of observables for damage assessment

## **Submission Instructions**

Directions for submitting presentations and papers for consideration are provided below. It is the responsibility of the lead author to obtain all approvals and releases for abstracts, presentation, and paper, if submitted. All submitted materials must be appropriately marked for security classification, including unclassified presentations as well as identification of any distribution restrictions. Additionally, please identify the presenter (if different from the lead author) and update contact information.

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**Abstracts**

Abstracts must be unclassified and are due no later than **17 December 2012**.

Abstracts should be between 500 and 1000 words in length and include: paper title, a complete description of the paper, author's names / organizations, lead author contact information (telephone, email, and fax), expected classification of the presentation (and the paper), as well as the expected distribution restrictions. Abstracts should be submitted online at the DEPS website, [www.deps.org](http://www.deps.org).

Authors will be notified on or before **11 January 2013** of acceptance of their paper for presentation and / or publication. Additional instructions for submitting classified papers and presentations may be provided at that time. A short biographical sketch (a few lines, to be used for introduction of presenters), will be requested.

**Presentations**

In order to assemble the presentations for the symposium in a timely manner, authors are requested to submit the sponsoring Program Office approved versions of classified and unclassified presentations no later than **15 March 2013**. Any presentation received after this date is subject to not being presented at the discretion of the conference technical committee.

Please submit unclassified presentations to Carolyn Bowman at [graphic@deps.org](mailto:graphic@deps.org).

*Note: classified presentations should be submitted according to the instructions below.*

**Papers**

Papers are due on or before **5 April 2013** and should be submitted in either Microsoft Word format, which is preferred or Adobe Acrobat format (.pdf file).

Specific format instructions can be found on the following link:

<http://www.deps.org/DEPSpages/DEjournalAuthorInstructions.html> with the following exceptions: no page limit, single space paragraphs, double space between paragraphs, and integrated figures and tables. Include full information (including address, phone, fax, and email) for corresponding author. It is the authors' responsibility to ensure that the paper has not been published, nor under consideration, elsewhere.

Please submit unclassified papers to Carolyn Bowman at [graphic@deps.org](mailto:graphic@deps.org).

**Classified Presentations and Papers**

Please submit classified presentations and papers themselves to:

Nolan Cason / DEPS IT Manager; 505-846-2703 (DSN 246-2703)

SIPRNET: [Nolan.cason@afmc.af.smil.mil](mailto:Nolan.cason@afmc.af.smil.mil)

***OR, please ship all classified media to the following address:***

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Outer envelope:

Attention: Document Control  
AFRL/RDTA  
3350 Aberdeen Ave SE  
Kirtland AFB, NM 87117

Inner envelope:

Attention: Nolan Cason  
AFRL/RDTA  
3350 Aberdeen Ave SE  
Kirtland AFB, NM 87117

### **Classification Guidance**

Classified materials must be marked In Accordance With DoD 5200.1-R, Sections 5.2, 5.3, and 5.4, and Executive Orders 12958 and 13526 "Classified National Security Information."

All classified presentations must include the classified by or derived from information, as well as the "declassify on" date.

### **Release Forms**

All submissions of presentations and papers, both classified and unclassified, must be accompanied by release forms. These will be available on the DEPS Web site. Follow the instructions on the form for submission. The release forms are due with the presentations or papers.

### **Distribution**

Distribution statements of technical documents must be identified in accordance with DoD Directive 5230.24, dated 23 AUG 2012, Enclosure 4 (page 14). Papers with distribution statements A, C, and D are encouraged to facilitate publication of the technical data in the proceedings.

All **presentations** must have an authorized distribution statement on the first page. **Presentations** containing Distribution Statements B and E will not be presented at the DE Systems Symposium or published in the proceedings.

All **papers** must have an authorized distribution statement on the first page. **Papers** containing Distribution Statements B, E, and F will not be published in the DE Systems Symposium proceedings.

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**Conference Committee**

Conference Chair:

- Dr. Nicholas Morley 505-846-0805 [nicholas.morley@kirtland.af.mil](mailto:nicholas.morley@kirtland.af.mil)

Technical Program Chair:

- Ross Dudley 505-846-0145 [ross.dudley@kirtland.af.mil](mailto:ross.dudley@kirtland.af.mil)

Administration and short courses:

- Cynnamon Spain 505-998-4910 [cynnamon@deps.org](mailto:cynnamon@deps.org)

**Schedule of Events**

Action	Due Date	Submitted to:
Abstract – unclassified	17 December 2012	Online, see Symposium Web page
Paper/presentation and/or publication acceptance notification	11 January 2013	Authors, by Conference Chairs
Unclassified presentations / papers and all release forms	15 March 2013	Carolyn Bowman, <a href="mailto:graphic@deps.org">graphic@deps.org</a> Follow instructions on release forms for submission
Classified presentations/ papers	15 March 2013	Nolan Cason / DEPS IT Manager 505-846-2703 (DSN 246-2703) Nolan.cason.ctr@kirtland.af.mil  SIPRNET: <a href="mailto:Nolan.cason@afmc.af.smil.mil">Nolan.cason@afmc.af.smil.mil</a>  OR ship all classified media to:  Outer envelope:  <b>Attention: Document Control</b> AFRL/RDTA 3350 Aberdeen Ave SE Kirtland AFB, NM 87117  Inner envelope:  <b>Attention: Nolan Cason</b> AFRL/RDTA 3350 Aberdeen Ave SE Kirtland AFB, NM 87117