



IEEE's 2012 International Symposium on Electromagnetic Launch Technology

May 15-19 • Beijing, China

Abstracts Due August 26, 2011
Submit abstract online at www.emlsymposium.com

The Electromagnetic Launch (EML) Symposium is a biennial event that serves as the principal forum for the discussion, interchange, and presentation of research on critical technologies for accelerating objects or projectiles to hypervelocities using electromagnetic or electrothermochemical launchers. During the Symposium, researchers share and exchange a wealth of knowledge through oral and poster presentations. The Symposium's proceedings are the major archival source of papers published in this field.

The Organizing Committee is pleased to announce that the 2012 event will be held in China for the first time in the history of the symposia. The 16th EML Symposium will start with a welcoming reception on May 15th; oral and poster sessions will be held from the 16th – 18th; and the 19th will feature tours to the historical sites of the Great Wall and the Forbidden City.

ABSTRACT GUIDELINES

Abstracts should be at least 150 words but limited to a single page. The official language is English. Abstracts must be unclassified and cleared for public release with unlimited distribution. An abstracts booklet of accepted papers will be distributed at the conference.

Formatting Instructions:

Paper size: A4

Margins: top and bottom margins are 1.0 inch; side margins are 1.25 inch

Preferred font: 11 point; Times or Times New Roman

File format: PDF (preferred) or Microsoft Word

Include name, address, affiliation, phone number, fax number, and e-mail address of the primary author. Indicate appropriate topic.

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TOPICS

Authors are invited to submit abstracts on the following topics:

Launchers

- Electric light gas guns
- EM Coilguns
- EM Railguns
- Electrothermal / Electrothermal-Chemical Launchers

Projectiles

- Armatures
- Integrated Launch Packages
- Launch Package Components
- High-G Sensors
- Guidance, Navigation, and Control

Pulsed-Power Supply Technology

- Energy Storage
- Power Conditioning
- Switching
- Controls

Modeling and Simulation

- Computational Techniques
- Modeling / Simulation Comparison

Diagnostics

- Diagnostic Techniques

Applications

- Land, Sea, Air
- EM aircraft launchers
- Earth-to-Space Launch
- Magnetic Levitation
- EM Armor
- Industrial

Directed Energy

- High Power Microwaves
- High Energy Lasers

Please note that submissions on the following topics are NOT encouraged:

- Motor/controls for Hybrid Electric Vehicles

PROCEEDINGS

All papers selected for presentation will be published in a Conference Proceedings and included in IEEE's Xplore Library. Authors of papers of superior quality will be invited to submit a more extensive manuscript to IEEE's Transactions on Plasma Science.

CONFERENCE AWARD NOMINATIONS

One of the highlights of the symposium is the Conference Awards Banquet where individuals are recognized for their contributions to EML technology.

Harry Fair Award

The Harry Fair Award recognizes outstanding contributions to EML technology resulting from an

individual's continued effort to develop programs of research, education, and information exchange that are the basis for progress in electromagnetic launch.

Peter Mark Medal

The Peter Mark Medal for Outstanding Contribution to EML Technology is named in honor of the late Professor Peter Mark whose enthusiasm, intelligence and vision contributed to the initiation of the U.S. program on electromagnetic technology.

Peter J. Kemmey Student Memorial Scholarship

This scholarship was established as a tribute to the memory of the late Dr. Peter J. Kemmey, whose ideas and pioneering vision contributed to the broad EML initiative that began in the late 1970s, and the establishment of the EML Symposium shortly thereafter.

Award nominations are due December 17, 2011.

More details about these awards, including selection criteria and instructions for submitting nominations can be found on the symposium web site at www.emlsymposium.com.

Co-Hosts

- ❖ China Electrotechnical Society
- ❖ Inst. for Strategic & Innovative Technologies

ASSISTANTS

- ❖ Electromagnetic Launch Technology Committee of China Electrotechnical Society
- ❖ Institute of Electrical

- ❖ Engineering of Chinese Academy of Science
- ❖ Tsinghua University

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QUESTIONS?

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