

18th EML SYMPOSIUM AGENDA

Monday, October 24, 2016

2:00 - 9:00 PM | 18TH EML REGISTRATION DESK OPENS
5:00 - 8:00 PM | WELCOME RECEPTION

Tuesday, October 25, 2016

8:00 - 9:00 AM | REGISTRATION

9:00 - 9:30 AM | WELCOME ADDRESS

Harry Fair, *Institute for Strategic and Innovative Technologies, Austin, TX, USA*

Jun Li, *Beijing Institute of Special Electromechanical Technology, Beijing, CHINA*

Kaipei Liu, *Wuhan University, Wuhan, CHINA*

SPEAKER: Xiangjing Pei, *General Secretary, China Electrotechnical Society, Beijing, CHINA*

SPEAKER: Jiansheng Li, *Vice President, Wuhan University, Wuhan, CHINA*

09:30 - 10:00 AM | [KEYNOTE ADDRESS] Thinking and Study of Electromagnetic Launch Technology

Weiming Ma, *National Key Laboratory for Ship Integrated Power System, Wuhan, CHINA*

10:00 - 10:20 AM | BREAK

10:20 - 10:50 AM | [KEYNOTE ADDRESS] History of Navy Railgun Program

Admiral James Hogg, *Rhode Island, USA*

10:50 - 11:50 PM | 1ST TECHNICAL SESSION

Session Chairmen: Antonino Musolino / Chao Wang

10:50 - 11:10 AM | (48) XRAM Pulse Current Generator with Magnetic Flux Compression Effects

Shangang Ma, *Qinghai University, Xining, CHINA*

11:10 - 11:30 AM | (132) Design Criteria for a Railgun with Augmenting Coils made from high TC Superconductors

Markus Schneider, *French-German Research Institute, Saint Louis, FRANCE*

11:30 - 11:50 AM | (196) A Rapid Combined Measurement Method of the Armature's Speed and Railgun Launcher's Current

Ronggang Cao, *Beijing Institute of Technology, Beijing, CHINA*

11:50 - 12:00 PM | PHOTO

12:00 - 1:00 PM | LUNCH BREAK

1:00 - 3:00 PM | POSTER SESSION

3:00 - 5:00 PM | 2ND TECHNICAL SESSION

Session Chairmen: Markus Schneider / Junyong Lu

3:00 - 3:20 PM | (104) Parameter Analysis fo the Counter-current Branch in the STRETCH Meat Grinder with ICCOS Circuit

Xukun Liu, *Tsinghua University, Beijing, CHINA*

3:20 - 3:40 PM	(192) Rotor Retaining Sleeve Design of the Prime Motor for Integrated Pulsed Power System Yuan Wan , <i>Harbin Institute of Technology, Harbin, CHINA</i>
3:40 - 4:00 PM	(39) Developing a Launch Package for the PEGASUS Launcher Stephan Hundertmark , <i>French-German Research Institute, Saint Louis, FRANCE</i>
4:00 - 4:20 PM	(327) Design and Analysis of the 270kJ Augmented Railgun Xin Fu , <i>Chinese Academy of Sciences, Beijing, CHINA</i>
4:20 - 4:40 PM	(156) Selection of Capacitors in Inductive Pulse Power Supplies Zhen Li , <i>Tsinghua University, Beijing, CHINA</i>
4:40 - 5:00 PM	(291) A 20 kHz High Repetition-rate Magnetic Pulse Generator Dongdong Zhang , <i>Chinese Academy of Sciences, Beijing, CHINA</i>

Wednesday, October 26, 2016

9:00 - 9:30 AM	[KEYNOTE ADDRESS] Pulsed Alternators Shaopeng Wu , <i>Harbin Institute of Technology, Harbin, CHINA</i>
9:30 - 10:00 AM	[KEYNOTE ADDRESS] Effect of Electromagnetic Forcing on Shaped-charge Performance Gennady Shvetsov , <i>Russian Academy of Sciences, Novosibirsk, RUSSIA</i>
10:00 - 10:10 AM	BREAK
10:10 - 11:50 AM	3RD TECHNICAL SESSION <i>Session Chairmen: Jiaxin Nie / Stephan Hundertmark</i>
10:10 - 10:30 AM	(17) Design of a Compulsator to Drive a Railgun Apurva Kulkarni , <i>Indian Institute of Science, Bangalore, INDIA</i>
10:30 - 10:50 AM	(367) Frequency Domain Analysis of Muzzle Voltage Noise Analysis Greg Engel , <i>University of Missouri, Columbus, Missouri, USA</i>
10:50 - 11:10 AM	(36) Comparison of C-armature and Brush Armature Technology Barbara Wild , <i>French-German Research Institute, Saint Louis, FRANCE</i>
11:10 - 11:30 AM	(200) Some Key Parameters of Monolithic C-type Armature in Rectangular Caliber Railgun Lixue Chen , <i>Huazhong University of Science and Technology, Wuhan, CHINA</i>
11:30 - 11:50 AM	(161) Design Study and Scaled Experiment of Induction and Synchronous Motor for Civil Application of Electromagnetic Aircraft Launch System Luca Bertola , <i>The University of Nottingham, Nottingham, UNITED KINGDOM</i>
11:50 - 1:00 PM	LUNCH BREAK
1:00 - 3:00 PM	POSTER SESSION
3:00 - 5:00 PM	4TH TECHNICAL SESSION <i>Session Chairmen: Junjia He / Greg Engel</i>
3:00 - 3:20 PM	(294) Thermal Management of Hybrid Energy Storage for Electromagnetic Emission Ren Zhou , <i>Naval University of Engineering, Wuhan, CHINA</i>
3:20 - 3:40 PM	(154) The Meat Grinder with SECT Circuit Rui Ban , <i>Tsinghua University, Beijing, CHINA</i>

3:40 - 4:00 PM	(143) Calculation and Analysis of the Rail Dynamic Deformation of the Electromagnetic Launching Xia Ge , <i>Northwest Institute of Mechanical and Electrical Engineering, Shaanxi, CHINA</i>
4:00 - 4:20 PM	(180) Design and Testing of a 1 MJ Pulsed Power Supply Mustafa Karagoz , <i>ASELAN Inc., Ankara, TURKEY</i>
4:20 - 4:40 PM	(208) Refining FE Structural Mechanics Simulations of a Railgun by Taking into Account Electromagnetic Effects Justinas Rackauskas , <i>Vilnius Gediminas Technical University, Vilnius, LITHUANIA</i>
4:40 - 5:00 PM	(210) How the Future Insensitive Munition System can Meet the Safety Challenge of the Electromagnetic Launching Technology? Jianxin Nie , <i>Beijing Institute of Technology, Beijing, CHINA</i>

Thursday, October 27, 2016

9:00 - 9:30 AM	[KEYNOTE ADDRESS] French/German National Overview Markus Schneider , <i>French-German Research Institute, Saint Louis, FRANCE</i>
09:30 - 10:00 AM	[KEYNOTE ADDRESS] Summary of Meat Grinder Xinjie Yu , <i>Tsinghua University, Beijing, CHINA</i>
10:00 - 10:20 AM	BREAK
10:20 - 12:00 PM	5TH TECHNICAL SESSION <i>Session Chairmen: Gennady Shvetsov / Shaopeng Wu</i>
10:20 - 10:40 AM	(187) Review of Inductive Pulse Power Generators for Railguns Oliver Liebfried , <i>French-German Research Institute, Saint Louis, FRANCE</i>
10:40 - 11:00 AM	(146) Considerations Relating to EM Space Launch Michael Anderson , <i>Emergent Power Solutions LLC, Austin, TX, USA</i>
11:00 - 11:20 AM	(35) Increasing Launch Efficiency with the PEGASUS Launcher Stephan Hundertmark , <i>French-German Research Institute, Saint Louis, FRANCE</i>
12:00 - 1:00 PM	LUNCH BREAK
1:00 - 3:00 PM	POSTER SESSION
3:00 - 4:00 PM	6TH TECHNICAL SESSION <i>Session Chairmen: Oliver Liebfried / Ping Yan</i>
3:00 - 3:20 PM	(92) Research on the Excitation Control of Brushless Doubly-Fed Alternator in a Novel Pulse Capacitor Charge Power Supply Peng Tang, <i>Huazhong University of Science and Technology, Wuhan, CHINA</i>
3:20 - 3:40 PM	(354) Rail Electromagnetic Launchers Powered by Pulsed MHD Generators Gennady Shvetsov , <i>Russian Academy of Sciences, Novosibirsk, RUSSIA</i>
3:40 - 4:00 PM	(106) Investigation of the Driving Ability on Concave Armature Wei Guo , <i>Northwest Institute of Mechanical & Electrical Engineering, Shaanxi, CHINA</i>
4:00 - 4:20 PM	(296) Experimental Test Results of a Two-section Linear Induction Launcher Ugur Hasirci , <i>Duzce University, Duzce, TURKEY</i>

4:00 - 4:20 PM | **BREAK (TALLY RESULTS)**

4:20 - 5:00 PM | **CLOSING REMARKS**

Harry Fair, *Institute for Strategic and Innovative Technologies, Austin, TX USA*

Jun Li, *Beijing Institute of Special Electromechanical Technology, Beijing, CHINA*

Kaipei Liu, *Wuhan University, Wuhan, CHINA*

6:00 - 10:00 PM | **SYMPOSIUM BANQUET**

Friday, October 28, 2016

9:00 - 9:40 AM | **High Voltage Key Laboratory Tour, Wuhan University (Group 1 - Foreigners Only)**

9:20 - 10:00 AM | **High Voltage Key Laboratory Tour, Wuhan University (Group 2)**

10:00 - 10:40 AM | **High Voltage Key Laboratory Tour, Wuhan University (Group 3)**

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