2017 WARHEADS & BALLISTICS CLASSIFIED SYMPOSIUM CALL FOR PAPERS

Sponsored by the Bomb & Warhead Division of the National Defense Industrial Association

August 1-3, 2017 Naval Postgraduate School - Monterey, CA Event # 7480

Deadline for Submitting Abstracts: MARCH 6, 2017

ANNOUNCEMENT

The symposium combines the Ballistic Division's Seventeenth Classified Ballistics Symposium with the Bomb & Warhead Division's 65^{TH} Annual Bomb & Warhead Technical Symposium. The symposium will be held August 1 - 3, 2017 at the Naval Postgraduate School in Monterey, CA. The meeting provides a forum for classified, export-controlled, and limited distribution papers in the areas of ballistics, weapons effectiveness, and bomb and warhead technology. The symposium is classified at the **SECRET/NOFORN** level and is limited to the following US agencies: DoD, DoD Contractors, DoE, FBI, CIA, and DHS.

OBJECTIVE

The objective of the Warheads and Ballistics Classified Symposium is to provide researchers, developers, and program managers (from government, academia, and industry) a forum for the exchange of information on current work related to the advancement of the technology and application of ballistics and weapon systems.

PAPER TOPICS

Classified, export-controlled, and limited distribution papers are solicited on a broad range of topics, including:

Ballistics

Kinetic Energy Technology Interior Ballistics Launch Dynamics Exterior Ballistics Terminal Effects Advanced Propulsion Technologies

Warheads

Chemical Energy Technology Undersea Warheads Air to Air Warheads Hard-Target Defeat Warheads Agent Defeat Warheads Non-Traditional Warheads Fuel-Air Warheads Multi-Function Warheads Electromagnetic Effects Warheads Warhead Mechanics Lethal Mechanisms

Materials

	Ballistic Materials			
	Energetic Materials			
	Material Dynamics			
	Material Processing			
	Insensitive Explosives			
	Target Protection			
	echnologies			
	Active Protection Systems (APS)			
	Counter Active Protection Systems (CAPS)			
	Target Vulnerability			
	Personnel Armor/Protection			
Related Technologies				
	Systems Integration			
	Insensitive Munitions			
	Precision Munitions			
	Fire Control Systems			
	MANTECH			
	Electric Weapon Technologies			
	Fuze Integration			
	Hypersonic Weapons Technology			
	Detonation/Deflagration Modeling			
	Determination, Demogration Modeling			

CLASSIFICATION

The Warheads and Ballistics Classified Symposium will be conducted at the SECRET/NOFORN security level. Attendance at the Symposium and distribution of the proceedings is limited to U.S. DoD Agencies, DoD contractors, DoE, FBI, CIA, and DHS. If required by individual presentation distribution limitations, a special session may be requested for a more restricted audience. Unclassified, public releasable papers should be considered for submission to the International Ballistics Symposium.

ABSTRACTS

The abstract must be unclassified and clearly state the impending presentation and paper's classification via a Security Classification Guide and Distribution Statement, export control, if applicable. Restricted, unclassified abstracts, presentations and papers must be assigned either a Distribution C or Distribution D Statement. Abstracts will be handled as export-controlled, non-public-release documents. Submit unclassified abstracts of 300 to 600 words by MARCH 6, 2017 to:

Via Email: Ciccar@detk.com Or on Disk: Mr. Robert D. Ciccarelli, Vice President DE Technologies, Inc. 100 Queens Drive King of Prussia, PA 19406 Tel: (610) 337-2800, extension 120

DO NOT SEND A LIMITED DISTRIBUTION DOCUMENT (ABSTRACT) OVER THIS OR ANY OTHER OPEN EMAIL LINE. ALL LIMITED DISTRIBUTION ABSTRACTS MUST BE SUBMITTED ON A DISK TO THE SUPPLIED ADDRESS.

You may also ftp limited distribution abstracts to <u>ciccar@detk.com</u> via the AMRDEC Safe Access File Exchange: <u>https://safe.amrdec.army.mil/safe</u>. You should request a receipt to ensure that your abstract was downloaded by DE Tech. You are responsible for following all directions. Do not select "encrypt email message when possible." Do select "Notify me when file(s) downloads are COMPLETED."

Use the attached form (or equivalent) to indicate each author's name, organization, and contact information. Indicate which author (if more than one) will present the paper with an asterisk. Refer to the **GUIDELINES FOR ABSTRACTS** below for instructions on abstract preparation.

PAPER SELECTION

Papers will be selected based on technical quality, relevance, and interest to the warhead, ballistics, and effectiveness research and development communities. Preference will be given to classified, limited distribution and export-controlled papers. The emphasis should be on new work not previously reported. All candidates will be notified of paper selection by **May 1, 2017**. The primary criterion for authorship is having played a substantive role in the work reported. Management review and sponsorship without active technical contribution are more appropriately noted in an acknowledgement. Current affiliations should have no bearing on whether an active participant should be considered an author.

PRESENTATIONS

Each presentation is allotted twenty (20) minutes, including time for questions. If you require a presentation visual-aid other than a PowerPoint or an Adobe PDF file, please indicate this requirement on the enclosed **AUTHOR'S DATA FORM**.

PAPERS

The classified proceedings of this meeting will be published with distribution limited to U.S. Agencies and their contractors. Authors **must** submit a **written paper** for these proceedings. Selected papers must be submitted in final electronic format by **July 3, 2017**. **Failure to submit a publishable paper will result in deletion of the presentation from the agenda**. Instructions for preparing papers and presentations will accompany the acceptance letter.

SUMMARY

The following table defines the timeline for the **2017 WARHEADS & BALLISTICS CLASSIFIED SYMPOSIUM.**

EVENT	DATE
ABSTRACTS DUE	6 MARCH 2017
PAPER SELECTION	24 APRIL 2017
AUTHOR NOTIFICATION	1 May 2017
FINAL PAPERS DUE	3 JULY 2017
2015 SYMPOSIUM	1 - 3 AUGUST 2017

GUIDELINES FOR ABSTRACTS

The primary purpose of the abstract is to enable members of the Paper Selection Committee to quickly understand and evaluate your proposal for presentation. The abstract should answer the following questions:

- * Is the work original or based upon prior work, either by the author(s) or others?
- * What is the significance of any new findings of the paper?
- * Has the work been previously presented? If so, where and why should it be presented again?

To answer these questions, the abstract must be sufficiently detailed and must show a grasp of prior related work in the field of the proposed paper. To allow your abstract the most objective review and to expedite the process of paper selection, we have included the following instructions:

CRITERIA

<u>Length</u>

Abstracts that are too short lack the detail to provide a clear understanding of the nature of the work and the advancements in technology. Lengthy abstracts are taxing and unfair to the reviewers. Abstracts should be **300 to 600** words and no more than two (2) pages including all text, graphics, and references.

References to Previous Work

The abstract should define how the work compares with and relates to prior work. Appropriate citations to prior related work must be included and discussed. Abstracts should contain all appropriate key citations to prior work in order to indicate the author's familiarity with the research. This information will serve to increase the rating of the proposed paper.

Interpretation of Results

The abstract needs to define the significance of the work by indicating how the results illuminate the problem and possibly provide some insights not previously available.

Use of Figures

If one or two figures can significantly contribute to a better understanding by the reviewers of the work being reported, then authors are encouraged to include such figures, within the 2-page limit of the abstract.

General Advice

Please abide by the criteria listed above, both to increase the rating of your paper and out of consideration for the reviewers who must examine and judge many abstracts. Abstracts that do not meet the criteria may be rejected or downgraded relative to well-prepared abstracts.

Presentation and Paper Classification

The abstract must identify the expected classification and distribution statement of the presentation and paper. All papers whether classified or not, must have a distribution statement. Distribution A is for use on fully public releasable

documents and are not, in most cases, appropriate for this symposium. All others should use either Distribution C or Distribution D. Distribution F documents will only be accepted on a case-by-case basis and will require a written justification and approval by the committee prior to paper selection. Please note that For Official Use Only (FOUO) is not a sufficient distribution limitation and must be accompanied by an appropriate Distribution statement. PLEASE ALSO NOTE THAT INCORRECTLY MARKED PAPERS WILL NOT BE INCLUDED IN THE PROCEEDINGS AND AUTHORS WILL NOT BE ALLOWED TO PRESENT THEIR PAPERS AT THE SYMPOSIUM.

THE JOHN ULRICH MERITORIOUS SERVICE AWARD

The Bomb & Warhead Division recognizes the outstanding contributions of individuals to the warhead community through its John Ulrich Meritorious Service Award. The basic criteria for the award are technical accomplishment, leadership, innovation, creativity, and sustained service having national and long-term impact. We encourage the participation of the Bomb and Warhead community in the nomination of outstanding individuals in our field. For information on the nomination procedure, contact:

Mr. Robert D. Ciccarelli, Vice President DE Technologies, Inc. 100 Queens Drive King of Prussia, PA 19406 Ph: (610) 337-2800 x.120 Fax: (610) 337-2900 Email: Ciccar@detk.com

> BOMB & WARHEAD DIVISION Chair Mr. Robert D. Ciccarelli DE Technologies, Inc. Ciccar@detk.com

AUTHOR'S DATA FORM 2017 Warheads and Ballistics Classified Symposium – August 1 – 3, 2017

Title of Paper:						
AUTHOR(S): Full name as it should Asterisk* presenter's name and ad						
Author:						
Company/ Organization:						
Address:						
Phone:	Fax:	Email:				
Ballistics Kinetic Energy Technology Interior Ballistics Exterior Ballistics Exterior Ballistics Terminal Effects Advanced Propulsion Technologies Warheads Chemical Energy Technology Undersea Warhead Air to Air Warheads Hard Target Defeat Warheads Hard Target Defeat Warheads Fuel Air Warheads Agent Defeat Warheads Electro Magnetic Effects Warheads Warhead Mechanics Lethal Mechanisms		Materials Ballistic Materials Haterial Dynamics Material Processing Insensitive Explosives Target Protection Armor Technologies Active Protection Systems (APS) Counter Active Protection Systems Target Vulnerability Personnel Armor/Protection Related Technologies Systems Integration Insensitive Munitions Precision Munitions Fire Control Systems MANTECH Electric Weapon Technologies Fuze Integration				
Paper Classification: Secret	tial 🛛 🗌 Export Con	ntrolled				
If Classified, Source Document:		overnment Contract Number:				
Visual Aid Requirement(s): Overhead	m 🗌 Electroni	nic)			
Abstracts: Mr. Robert D. Ciccarelli, Vice Presid DE Technologies 100 Queens Drive King of Prussia, PA 19406 Ph: (610) 337-2800 x.120 Email: ciccar@detk.com	lent	Inquiries: Ms. Loey Bleich NDIA 2111 Wilson Blvd., Suite 400 Arlington, VA 22201 Ph: (703) 247-2588 Email: Ibleich@ndia.org				