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## Journal of Energetic Materials

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### Introduction

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## Introduction

This special edition of the *Journal of Energetic Materials* consists of a select number of papers that were presented at the international conference New Models and Hydrocodes for Shock Wave Processes in Condensed Matter. The conference was held May 18–23, 2008, in Estoril, Portugal, just outside of Lisbon. It was the seventh in this series of conferences: St. Petersburg, Russia (1995), Oxford, UK (1997), Washington, DC, USA (1999), Edinburgh, UK (2002), College Park, MD, USA (2004), Dijon, France (2006). The conference was highly successful with presentations given by participants from eight different countries: Canada, France, Germany, Israel, Portugal, Russia, the United Kingdom, and the United States of America.

Major themes of the seventh edition of the conference were:

- (1) Detonation Physics
- (2) Numerical Modeling of Detonation Processes (from atomic through continuum length scales)
- (3) Shock Physics in Inert Materials
- (4) Numerical Modeling of Shock Wave Processes in Inert Materials (from atomic through continuum length scales)
- (5) Constitutive Behavior and Damage Mechanics under Shock Wave Loading, and
- (6) Numerical Methods and Hydrocodes.

A select number of papers pertaining to issues related to energetic materials are presented herein. Papers related to shock wave processes and the modeling of these processes in inert materials shall be presented elsewhere.

The highly successful seventh edition of the conference benefited immensely from the generous support provided by the following sponsors:

ADAI/LAETA: Associação para o Desenvolvimento da Aerodinâmica Industrial/Laboratório Associado para a Energia, Transportes e Aeronáutica

DOE/NNSA: US Dept. of Energy/National Nuclear Security Administration

FCT: Fundação para a Ciência e a Tecnologia

LANL: Los Alamos National Laboratory

ONR: Office of Naval Research

ONR-G: Office of Naval Research Global

UC: Universidade de Coimbra

One of the fundamental objectives of the New Models and Hydrocodes for Shock Wave Processes in Condensed Matter international conference is assembling leading experts from around the world for technical exchange, fostering of international collaboration. Of special note are a number of meetings that were held in conjunction with the conference focusing on US/Russian collaboration in science and technology. These meetings would not have been possible, and the conference would not have been the great success that it was, without the support of Dr. Dimitri Kusnezov and the NNSA.

Finally, we would like to extend a special thanks to the Office of Naval Research and the Office of Naval Research Global (Program Managers – Drs. Clifford Bedford and John Zimmerman) for the generous support that they have provided to enable the publication of this special edition of the *Journal of Energetic Materials*.

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*Conference Co-Chairmen*

*Seventh International Conference on New Models and Hydrocodes for Shock Wave Processes in Condensed Matter*