

## CALL FOR PAPERS

Annual Conference of the Prognostics and Health Management Society 2009

San Diego, CA, USA

Hilton San Diego Resort & Spa

September 27 - October 1, 2009

<http://www.phmconference.org>

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Technical Co-sponsors: IEEE Computational Intelligence Society & Comadem International

The Prognostics and Health Management Society (PHM Society) invites you to participate in its first international conference. The 2009 PHM Society Conference will bring together the global community of PHM experts from industry, academia, and government in diverse application areas such as energy, aerospace, transportation, automotive, and industrial automation. The conference will feature keynote presentations by senior leaders in the field, panel discussions, hands-on demonstrations, a luminaries session, a doctoral consortium, a dedicated session on fielded systems, workshops, and a full day of tutorials free to all registrants. A PHM data analysis competition is being planned and details will be available on the web site soon. Leading companies and research institutions will exhibit their products and demonstrate their technologies during the event. Several social events will provide opportunities for participants to connect with colleagues.

## THE PHM SOCIETY AND THE 2009 CONFERENCE

For years, the field of PHM was represented under a variety of banners, including aerospace, reliability, failure analysis and prevention, mechanical engineering, and others. Nevertheless, PHM is broader than any single field of engineering. We established the PHM Society in order to unite the fragmented PHM community and to establish PHM as a legitimate scientific and engineering discipline. The 2009 conference will be managed by an outstanding team of PHM professionals that have strong name recognition in the field. We invite you to join these leaders of the PHM community and help establish PHM as a meta-discipline that draws from electrical, electronics, mechanical, civil, and chemical engineering, computer and materials science, reliability, test and measurement, artificial intelligence, physics, and economics.

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A major differentiator for the PHM Society will be its contemporary approach toward copyright: the Society will not take ownership of your work! Instead, authors will retain copyright through a Creative Commons License while allowing the PHM Society to distribute their work broadly through modern media. As a result, your original articles will reach the entire world for free and without access restrictions.

Prospective authors are invited to contribute full length, original, high-quality papers via the conference web site starting in May. Submitted papers will be reviewed by experts based on the criteria of originality, significance, quality,

and clarity. The conference proceedings will be published on the web for unrestricted access by the global scholarly community (and search engines).

#### TOPICS OF INTEREST

- PHM system design and engineering
- Physics of failure
- Software health management
- Structural health management
- PHM for electronics
- Diagnosis methods
- Data-driven prognostics
- Model-based prognostics
- Standards and methodologies
- Fault-adaptive controls
- Technology maturation
- Return-on-investment analysis
- Deployed applications and success stories
- Bio-sensors and detection of pathogens

#### IMPORTANT DATES

Challenge Data Release: April 10, 2009  
Demo Proposal Due: May 31, 2009  
Paper Submissions Due: June 15, 2009  
Consortium Package Due: June 15, 2009  
Paper Review Feedback: July 13, 2009  
Final Papers Due: August 15, 2009  
Conference: September 27 - October 1, 2009

#### CONFERENCE MANAGEMENT TEAM

General Chair: Kai Goebel (NASA)  
Technical Program Chairs: Karl Reichard (Penn State); Michael Pecht (University of Maryland/CALCE)  
Sponsorships Chair: Sonia Vohnout (Ridgetop Group), Ash Thakker (Global Technology Solutions)  
Communications Chair: Nikhil Vichare (Dell)  
Data Challenge Chairs: Neil Eklund (GE Global Research); Eric Bechhoefer (Goodrich)  
Demonstration Chairs: Tim Wilmering (Boeing); Nicholas Propes (BAE Systems)  
Doctoral Consortium and Student Poster Chairs: Sylvain Letourneau (NRC); Jeff Bird (NRC)  
Fielded Systems Chairs: George Vachtsevanos (Georgia Tech); Andy Hess (Hess PHM Group)  
Exhibits Chair: Michael Roemer (Impact Tek)  
Tutorials Chair: Ginger Shao (Honeywell)  
Financial Chair: Serdar Uckun (PARC)  
Luminaries Track Chair: Greg Kacprzynski (Impact Tek)  
Proceedings Chair: Tolga Kurtoglu (MCT)

Publicity Chair: Jay Lee (IMS); Piero Bonissone (GE Global Research); Phil Dussault (US Army); Jose Celaya (SGT); Mark Derriso (AFRL); John Schmalzel (Rowan University)