



Call for Papers
Call for Panel Session Speakers
Call for Doctoral Symposium Applications
Call for Data Challenge Participants
Call for Technology Demonstrations
Call for Tutorials

Oct 18 - 24, 2015
Coronado Island
San Diego, CA

IMPORTANT DATES

Key Paper Dates:

Abstract Submission Due
- April 10, 2015
Paper Submission Due
- May 15, 2015
Paper Review Feedback
- July 17, 2015
Final Papers Due
- August 07, 2015

Key Submission Dates:

Technology Demos
- August 14, 2015
Panel Session Interest
- June 12, 2015
Doctoral Symposium
- May 04, 2015

CONFERENCE MANAGEMENT TEAM

Conference Chair

Rhonda Walthall, *UTC
Aerospace Systems*

Technical Program

Lead: Dustin Garvey, *Oracle*

Anibal Bregon, *University of
Valladolid*

Katrina Carter-Journet,
Baker Hughes

Annual Conference of the Prognostics and Health Management Society 2015

www.phmconference.org

Oct 18 -24, 2015

Coronado Island Marriott

<http://www.marriott.com/hotels/travel/sanci-coronado-island-marriott-resort-and-spa/>

2000 2nd Street

Coronado, California 92118 USA

The Prognostics and Health Management (PHM) Society invites you to participate in its annual international conference which brings 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 2015 conference will feature Keynote Presentations by senior leaders in the field, Panel Discussions, hands-on Demonstrations, a Luminary Session, a Doctoral Symposium, Workshops, Invited Sessions, and a Short Course.

A major differentiator for the PHM Society is its modern approach toward intellectual property rights. Authors retain copyright in their work while allowing the PHM Society to distribute their work through a Creative Commons License. As a result, all articles published by the PHM Society are available to the global PHM community via the internet for free and without any restrictions.

Matt Daigle, *NASA*
Sreerupa Das, *Lockheed Martin*
Ian Jennions, *Cranfield University*
Chetan Kulkarni, *SGT-NASA*
Seth Kessler, *Metis*
Marcos Orchard, *University of Chile*
David Siegel, *Predictronics*
Brian Weiss, *NIST*

Keynote/Luminaries

Andy Hess, *Hess PHM Group*
Karl Reichard, *Penn State University*

Invited Sessions

George Vachtsevanos, *Georgia Tech*
Doug Brown, *Anatom*
Neil Eklund, *Schlumberger*
Ash Thakker, *GTC*

Sponsorships

Carl Byington, *Impact Technologies*
Patrick Kalgren, *Impact Technologies*

Panel Sessions

Lead: David Siegel, *Predictronics*

Jeff Bird, *TECnos*
Neil Eklund, *Schlumberger*
Jack Lam, *US Navy*
Juan Lopez, *Boeing*
Mike Roemer, *Impact Technologies*
Rune Schlanbusch, *Teknova*
Brinda Thomas, *Tesla*
Brian Weiss, *NIST*
Junda Zhu, *Renewable NRG Systems*

CALL FOR PAPERS

Prospective authors are invited to contribute full length, original, high-quality papers. The topics suggested by the conference can be categorized as analysis methods, asset-specific algorithms, prototype implementations, fielded systems, and business case analysis. All tracks are open to both research and industry contributions. Submitted papers will be reviewed by experts based on the criteria of content, significance, technical validity, innovation, writing style, accuracy, clarity, simplicity and readability. More details can be found [here](#).

Topics of Interest:

- Smart Manufacturing
- Smart Grid
- Marine, Automotive, Aviation Applications
- Wind Energy
- Decision Support Systems
- Corrosion
- Oil & Gas
- Big Data Analytics
- Advanced Sensing & Embedded Devices
- Detection, Diagnostics & Prognostics Methods
- Data Driven Approaches
- Physics of Failure & Model Based Prediction
- Adaptive Control & Fault Accommodation
- Standards, Metrics & V&V
- CBM Return on Investment Analysis & Business Case

Please consider serving as a Session Chair at the Annual Meeting. A Session Chair introduces each session participant, and may facilitate discussion in the session. This is an excellent way for any member to participate in the Annual Meeting. Any member interested in serving as a Session Chair should contact the Technical Program Chairs or the General Chairs.

Please Note: No extensions will be provided for the submission deadline. Authors will be required to submit their papers by the deadline to allow enough time for the review process.

CALL FOR PANEL SESSION SPEAKERS

Prospective panelists are invited to contribute to a panel discussion with other speakers who have expertise in a

Doctoral Symposium Chairs/Student Poster

Lead: Jamie Coble,
University of Tennessee

Hoda Mehrpouyan,
Columbus State University
Katrina Carter-Journet,
Baker Hughes
Francois Liard, *Power
Alstrom*
Marcos Orchard, *University
of Chile*
David Siegel, *Predictronics*
Bin Zhang, *University of
South Carolina*
Junda Zhu, *Renewable NRG
Systems*

Poster Session

Lead: Nicholas Propes, *GTC*

Remus Avram, *Wright State
University*
Katrina Carter-Journet,
Baker Hughes
Bin Zhang, *University of
South Carolina*

Demonstrations

Jim Larkin, *Aerojet
Rocketdyne*
Michael Usrey, *Sporian*

PHM Data Challenge

Justinian Rosca, *Siemens*
Nicholas Williard,
Schlumberger
Neil Eklund, *Schlumberger*

Workshops

Aaron Spak, *Impact
Technologies*
Greg Bower, *QorTek*
Anuradha Kodali, *SGT-
NASA*

specific topic. Each panelist will presentation or speak for 10-15 minutes and then participate in a Q&A session with the audience. For more information, please contact [David Siegel](#).

Topics of Interest:

- Applications
- Autonomous Vehicles
- Automotive
- Smart Manufacturing
- Program Management
- Ship Prognostics
- Oil and Gas
- Wind Energy
- Fluid Shock Pulse CBM

CALL FOR DOCTORAL SYMPOSIUM APPLICATIONS

The PHM Society Doctoral Symposium will be held as a workshop beginning Sunday evening, October 18, and concluding Monday morning, October 19, 2015. Full-time students are invited to submit their thesis ideas to the Doctoral Symposium. It provides an opportunity for graduate students to present their research interests and plans at a formative stage in their research. The students will receive structured guidance from a panel of distinguished researchers as well as comments from conference participants and fellow students in a collegial setting. More details can be found [here](#).

CALL FOR PHM DATA CHALLENGE PARTICIPANTS

The PHM Society invites participants to compete in a data challenge to find the best solution to a PHM related problem. Collaboration is encouraged. The top scoring teams will be invited to present their solution at the conference. For more information, please contact [Justinian Rosca](#).

CALL FOR TECHNOLOGY DEMONSTRATIONS

The PHM Society invites exhibitors to show off their diagnostic and prognostic engineering approaches through technology demonstrations. The concept of the technology demonstrations is to offer a hands-on learning experience for attendees. Each exhibitor will be allocated 90 minutes to conduct as many demonstrations as they wish to an interactive audience. Unlike previous conferences, the number of concurrent sessions will be limited to four to

Website Development

Miryam Strautkalns,
*University of California,
Berkeley*
Scott Clements, *Lockheed
Martin*

Tutorials

George Vachtsevanos,
Georgia Tech
Kai Goebel, *NASA*

Short Course

George Vachtsevanos,
Georgia Tech

Organizational Collaborations

Barbara Brown, *NASA*
Jose Perotti, *NASA*

Proceedings

Matt Daigle, *NASA*
Anibal Bregon, *University of
Valladolid*

Conference Materials

Chetan Kulkarni, *NASA*
Scott Clements, *Lockheed
Martin Aeronautics*

Communications

Scott Clements, *Lockheed
Martin Aeronautics*

ensure more attendance at the technology demonstrations. *In addition, technology demonstrators must also register as an Exhibitor at the Bronze Level Sponsorship Level or higher.* For more information, please contact [Jim Larkin](#).

Topics of Interest:

- Sensors and Sensor Integration for PHM
- System Identification and Classification Processes
- Innovative System Maintenance Approaches
- Fielded Prognostic or Advanced Diagnostic Systems
- Certification and Validation Techniques for Health Management Applications

Please Note: Demonstration hardware, concepts, material, data, etc., must be cleared for public release.

CALL FOR TUTORIALS

The PHM 2015 Conference tutorials should provide a comprehensive introduction to the state-of-the-art in the tutorial's topic. Proposed tutorials must address the interests of a varied audience: beginners, developers, designers, researchers, practitioners, and decision makers who wish to learn a given aspect of prognostic health management.

Topics of Interest:

- PHM System Design and Engineering
- Diagnosis and Fault Isolation Methods
- Asset Health Management
- Condition-Based Maintenance Policies
- Standards and Methodologies
- Cost-Benefit Analysis
- Life Cycle and Risk Management Methodologies

Please contact [George Vachtsevanos](#) or [Kai Goebel](#) if you are interested in giving a tutorial.

Sincerely,

*Rhonda Walthall, General Chair, Annual Conference of the
PHM Society 2015*