



phmsociety

The First Asia Pacific Conference of the Prognostics and Health Management Society 2017

PHMAP17 Invitation

The PHM Society offers a special invitation to students from the international Prognostics and Health Management (PHM) community. The opportunity to share your enthusiasm and challenge the industry, government and academic practitioners is especially welcome.

About the Event

The 1st Asia Pacific Conference of the Prognostics and Health Management (PHM) Society 2017 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 technical paper and panel sessions, 5 keynote speakers, and daily tutorials free to all registrants. A PHM data analysis competition will be carried out in parallel. 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 conference follows the successful models of the previous eleven PHM Society conferences but with the special features and venue offered by an enthusiastic Local Organizing Committee!

Topics of Interest

Prognostics system design and engineering	Prognostics sensors and detection
Physics of failure prognostics	Asset health management
Structural health management	Prognostics for electronics
Fault detection and prognostics of MEMS	Diagnosis and fault isolation methods
Condition-based maintenance technologies	Standards and methodologies
Fault-adaptive control methods	Return-on-investment analysis
Deployed applications and success stories	Data-driven and model-based prognostics
Systems engineering aspects of PHM	Software and hardware for PHM

* For a complete list see: phmap.org/topics

Date, Location and Agenda of Event

PHMAP17 will be held Wednesday July 12 through 14, 2017 (special events on July 10, 11 and 15) at the Ramada Plaza Jeju Hotel, Jeju Korea. *Note: These dates include the Short Course held the two days prior to the main conference events. All attendees are encouraged to enroll in this popular course. A separate fee is required but a substantial discount is available to conference attendees and students.

The agenda includes key features of the conference:

- ✓ Free tutorials: Introduction to Diagnostics, Prognostics 101: Concepts, Methods, Issues and Applications, Deep Learning for PHM, Degradation Modeling and Analysis for PHM and Uncertainty Management for PHM
- ✓ Panel sessions with experts and audience participation: Smart manufacturing PHM, Asset and Operations Management- A Maritime Industry Focus, Commercial Aircraft PHM/IVHM, Railway PHM and Data Analytics in the Era of Industrial IOT
- ✓ Data Challenge focused on tracking the healthy state of components and predicting the date of upcoming gearbox replacement within a pulverizer system in an operating steam based power plant.

- ✓ Key note speakers from leading industries: United Technologies Aerospace Systems, Korea Atomic Energy Research Institute, City University of Hong Kong, University of Cincinnati IMS, and PHM Society
- ✓ 15 invited speakers
- ✓ Short course on Advanced Machine Diagnostics and Condition Monitoring by Prof. Robert Randall (on July 10-11 - extra charge but great student rates)
- ✓ Paper sessions with high quality, peer-reviewed papers
- ✓ Poster Sessions
- ✓ Open source proceedings
- ✓ Technical partners: Diag21, MFPT, Cranfield Boeing IVHM Centre, COMADEM (Condition Monitoring and Diagnostic Engineering Management), Helicopter Association International, Center for Intelligent Maintenance Systems (IMS) and CALCE (U Maryland). The Korean Society of Mechanical Engineering is a key organizer.
- ✓ Networking events- poster reception, welcome ceremony, banquet, lunches and breaks
- ✓ Content connected to the on-line, free access International Journal of Prognostics and Health Management.

Other pertinent details will evolve with links from: <https://www.phmap.org>

Target Audience of Event

International community of prognostics and health management experts from industry, academia and government in application areas including aerospace, energy, transportation, automotive and industrial automation.

Students are especially welcome to begin establishing their professional networks, validate their research goals and identify colleagues and mentors. The multi-disciplinary capabilities of many PHM practitioners is often a source of inspiration and unique insight.

About the Society

The Prognostics and Health Management Society is an incorporated non-profit organization founded on three basic principles to: Provide free and unrestricted access to PHM knowledge; Promote interdisciplinary and international collaboration in PHM; and Lead the advancement of PHM as an engineering discipline.

We welcome your participation in this event and the on-going activities of the society.

With best regards,



Professor, Joo-Ho Choi
Chairman of PHM Asia Pacific 2017.
www.phmap.org