

# PHM 2021

## 13<sup>th</sup> Annual Conference of the Prognostics and Health Management Society

### Nashville, Tennessee, USA (planned in-person)

**Oct. 30 – 31, 2021** Optional Short Course

**Nov. 1 – 4, 2021** PHM2021 Conference

**Early Registration Ends September 14<sup>th</sup>!**

After more than a year of pandemic shutdowns, we are excited to announce that the 13th Annual Conference of the PHM Society is currently planned to be an in-person event in historic Nashville, TN! We will, of course, be closing monitoring the situation and will make changes as necessary to ensure that the conference is safe for attendees.

We will bring together the global community of PHM experts from industry, academia, and government in diverse application areas, such as, but not limited to, energy, aerospace, transportation, automotive, human health & performance, smart manufacturing, and industry AI.

Here's some of what we have planned for 2021:

- A choice of 2 dedicated Short Courses focused on fundamental PHM concepts and techniques, as well as data analytics, during the weekend prior to the conference (separate registration required),
- A full-day Technical Language Processing Workshop,
- A Doctoral Symposium where PhD students can present their work and receive feedback from the community,
- Keynote and/or Luminary Speakers each day
- 3 parallel tracks of Technical Paper Sessions,
- 2 free Tutorial Sessions,
- 12 Panel Sessions,
- Technical Demonstrations and Product Showcases from leading companies and research institutions,
- A Data Analysis Challenge (with prizes!) held prior to the conference open to everyone, with winning teams presenting their approaches in an Invited Paper Session,
- Student Posters, and
- Networking, diversity outreach, and social events, including our annual Banquet dinner, held at the Country Music Hall of Fame!

We hope that you will be able to join us this year and look forward to seeing you in the fall!

Dave Larsen (Collins Aerospace), Sankaran Mahadevan (Vanderbilt University), and Scott Clements (Lockheed Martin), chairs

[chair@pnmconference.org](mailto:chair@pnmconference.org)

Key Paper Dates	
Abstract Submissions	June 18, 2021
Full Paper Due	July 23, 2021
Final Papers Due	Sep. 17, 2021
Key Submission Dates	
Panel Topic Proposals	May 28, 2021
Tech Session Proposals	May 28, 2021
Doctoral Symposium	June 25, 2021
Student Posters	June 25, 2021
Technology Demos	Aug. 31, 2021

#### Topics of Interest:

- Advanced Sensing & Embedded Devices
- Adaptive Control & Fault Accommodation
- Automotive Systems
- Autonomous / Robotic / Unmanned Systems
- PHM in Aviation Systems
- CBM RoI & Business Case Analysis
- Cloud Analytics
- Corrosion
- Cybersecurity PHM
- Data Driven Approaches
- Decision Support Systems
- Detection, Diag. & Prog. Methods
- Digital Twin and Digital Thread
- Electronic Transaction and Blockchain
- Energy (e.g., Nuclear, Smart Grid, Wind)
- Enterprise-wide PHM Applications
- Human-centric PHM
- PHM for Human Health and Performance
- Marine, Mining, and Railway Applications
- PHM for Precision Agriculture
- Oil & Gas
- Physics of Failure & Model Based Prediction
- Predictive Analytics
- Smart cities
- Smart Grid
- Smart Manufacturing
- Smart Cities
- Space Technologies and Systems
- Standards, Metrics, and V&V

[www.pnmconference.org](http://www.pnmconference.org)

# PHM2021 Tentative Schedule

Separate Registration Required	Saturday Oct 30	8:00 – 12:00	PHM Short Course “A” Day 1		PHM Short Course “B” Day 1	
		12:00 – 1:00	Lunch			
		1:00 – 5:30	PHM Short Course “A” Day 1		PHM Short Course “B” Day 1	
	Sunday Oct 31	8:00 – 12:00	PHM Short Course “A” Day 2		PHM Short Course “B” Day 2	
		12:00 – 1:00	Lunch			
		1:00 – 5:30	PHM Short Course “A” Day 2		PHM Short Course “B” Day 2	
Mon, Nov 1, 2021	7:00 – 8:00	Continental Breakfast				
	8:00 – 12:30	Technical Language Processing Workshop			Doctoral Symposium	
	12:30 – 1:30	Lunch				
	1:30 – 5:00	Technical Language Processing Workshop			Doctoral Symposium	
	5:00 – 5:30	<i>Free Time</i>				
	5:30 – 7:00	Opening Welcome Reception with Cocktails				
Tuesday, November 2, 2021	7:00 – 8:00	Continental Breakfast				
	7:50 – 8:45	Full Conference Opening Remarks and Luminary Presentation				
	8:45 – 9:00	<i>Break</i>				
	9:00 – 10:15	Paper Sessions 1	Tutorial Session 1		Panel Session 1	
	10:15 – 11:00	<i>Break</i>				
	11:00 – 12:15	Paper Sessions 2	Tutorial Session 2		Panel Session 2	
	12:15 – 1:30	Conference Lunch and Keynote Presentation				
	1:30 – 1:45	<i>Break</i>				
	1:45 – 3:00	Paper Sessions 3	Tutorial Session 3		Panel Session 3	
	3:00 – 3:45	<i>Break</i>				
	3:45 – 5:00	Paper Sessions 4	Tutorial Session 4		Panel Session 4	
	5:00 – 6:00	<i>Free Time</i>				
	6:00 – 8:00	Cocktail Reception with Posters				
	8:00 – 10:00	Student Social Dinner				
	Wednesday, November 3, 2021	7:00 – 8:00	Continental Breakfast			
7:50 – 8:45		Opening Remarks and Luminary Presentation				
8:45 – 9:00		<i>Break</i>				
9:00 – 10:15		Paper Sessions 5	Product Showcases		Panel Session 5	
10:15 – 11:00		<i>Break</i>				
11:00 – 12:15		Paper Sessions 6	Tech Demos		Panel Session 6	
12:15 – 1:30		Lunch on your own				
1:30 – 1:45		<i>Break</i>				
1:45 – 3:00		Paper Sessions 7A	Paper Sessions 7B		Panel Session 7	
3:00 – 3:45		<i>Break</i>				
3:45 – 5:00		Paper Sessions 8A	Paper Sessions 8B		Panel Session 8	
5:00 – 6:00	<i>Free Time</i>					
6:00 – 8:00	13th Anniversary Banquet					
Thursday, Nov 4, 2021	7:00 – 8:00	Continental Breakfast				
	7:50 – 8:45	Opening Remarks and Keynote Presentation				
	8:45 – 9:00	<i>Break</i>				
	9:00 – 10:15	Paper Sessions 9A	Paper Sessions 9B		2022 Planning Session	
	10:15 – 11:00	<i>Break</i>				
	11:00 – 12:15	Paper Sessions 10A	Paper Sessions 10B		IJPHM Meeting	
	12:15 – 12:30	<i>Break</i>				
	12:30 – 1:00	Closing Remarks & Adjournment				