

WCEAM 2018 – A Great Success !!!

The 13th World Congress on Engineering Asset Management (WCEAM-2018) was held successfully in Stavanger, the Energy Capital of Norway, 24th – 26th Sept. 2018, at the Clarion Hotel Energy. It was organized by the *Cluster on Industrial Asset Management (CIAM) of University of Stavanger, Norway* together with the *International Society for Engineering Asset Management (ISEAM)*.

WCEAM-2018 was staged with the Theme of '**Engineering Assets and Public Infrastructures in the Age of Digitalization**', with Prof. Jayantha P. Liyanage (Chair of CIAM, UiS) as the World Congress Chair, Prof. Joe Amadi-Echendu (Chair ISEAM), as the General Chair, and Adjunct Prof. Joe Mathew (Past Chair ISEAM and CEO of Asset Institute) as the Co-Chair.

The World Congress 2018 committee was actively represented by; *Stavanger Chamber of Commerce, Stavanger Maritime Forum, Greater Stavanger, Region Stavanger, Stavanger Forum, and University of Stavanger.*

World Congress Web: <http://2018.wceam.com/>

World Congress Sponsors:

- ✓ General sponsors
 - Rogaland County
 - Stavanger municipality
 - Sola municipality
- ✓ Silver Sponsor;
 - Apply Sørco
- ✓ Other sponsors;
 - Petroleum Safety Authority (Co-Sponsor for Lunch)

Research and Industrial Papers/Presentations:

10 Keynote speakers, 25 parallel Technical sessions, 106 Research and Industrial presentations from 20+ countries, 4 Technical safaris to selected Engineering sites in the Region, 3 On-site operational demonstrations.

A dedicated Congress APP by 'EventEye' for smart and easy navigation.

Among the most popular themes of the World Congress included;

- ✓ Asset economics and Decision analysis
- ✓ Asset management in Industry 4.0
- ✓ Co-value creation
- ✓ Asset health
- ✓ Human capital and organizational development
- ✓ Performance measurement and management
- ✓ Modern digital applications
- ✓ Critical asset processes
- ✓ Dynamic modelling, Simulation, and Visualization
- ✓ Smarter and Safer assets
- ✓ Sustainable assets and processes

“Special technical sessions” organized at the World Congress;

1. Nuclear Power Plant Monitoring and Long-Term Asset Management.
 - a. Organized by Belle Upadhyaya, Department of Nuclear Engineering, University of Tennessee, USA, and Jon Kvalem, Project Manager, OECD Halden Reactor Project, Norway
2. Asset management for Hydro power sector
 - a. Organized by Dragan Komljenovic, Hydro Quebec, Canada
3. Assets & Components operating lifetime modeling
 - a. Organized by Thomas J.J. Meyer, Teknova, Norway
4. Advances in equipment condition monitoring
 - a. Organized by Thomas J.J. Meyer, Teknova, Norway
5. Applied data science / Antorweep Chakravorty, UiS, Norway
6. Macro ergonomics and Organizational issues for Human performance and Workplace safety
 - a. Organized by Seppo Vayrynen, Unv. Of Oulu, Finland
7. Organizational Strategy and Entrepreneurship
 - a. Organized by Tatiana Iakovleva, UiS, Norway
8. Service Innovation in Maintenance through Industry 4.0
 - a. Organized by IFAC TC 5.1 WG AMEST (Advanced Maintenance Engineering, Services and Technology) and IFIP WG 5.7 SIG in Service Engineering. Coordinated by Marco MACCHI (Politecnico di Milano, Italy), Paolo GAIARDELLI (Università degli Studi di Bergamo, Italy), and Christos EMMANOUILIDIS (Cranfield University, UK)
9. Tunnel Safety
 - a. Organized by Tunnel safety Cluster and Ove Njå, UiS
10. Regulations and Audits of Late life Engineering assets
 - a. Organized by Ole Jørgen Melleby, Ptil.

Welcome Ceremony Invited Speakers:

- ✓ Mayor of Stavanger – Hon. Christine Sagen Helgø
- ✓ Rector of UiS – Prof. Marit Boyesen

Keynotes speakers:

- ✓ Line Heldal Bakkevig - VP & Program manager Field of the future, Statoil
 - "Digitalization towards Field of the Future"
- ✓ Michael Campbell – Senior Director Facilities management, Children’s Health Queensland Hospital and Health Service, Australia
 - "Innovative Health Infrastructure and Medical service solutions in the Digital age"
- ✓ Adrian Park – VP Information management Process, Power, and Marine, Intergraph Norge
 - "Digital transformation and leveraging the Digital Twin, through the Asset life cycle".
- ✓ Tom Eystø – CEO Massterly
 - " Towards a New Maritime Adventure with Autonomous shipping and Ferry services".
- ✓ John Woodhouse – Managing director, Woodhouse Partnerships Ltd., UK.
 - " Don't forget human psychology in asset management decisions – it's not all about data and analytics"
- ✓ Tor Kristian Gyland – CEO, Green Mountain AS
 - " "#TheNaturalChoice: Modern Data centers for Critical assets from inside and out"
- ✓ Anne-Lene Festervoll – Director & Leader, People and Organization practice, PriceWaterhouseCoopers, Norway
 - "Workforce of the future" –And the Global future of HR"
- ✓ Sverre Alvik, Director of Energy Transition Outlook, DNV-GL, Norway
 - "Global Energy Transition Outlook for Engineering Assets and Public Infrastructures"

Technical safaris organized (on 26th Sept):

- ✓ Tour de Tunnel – Ryfast Worlds longest underwater tunnel /Road Authority of Norway
- ✓ Robotic Rigs – Automated Drilling /IRIS Research Institute
- ✓ Integrated and Remote operations – eROV / Oceaneering AS
- ✓ Data inside a Green mountain – Green mountain

On-site demos ('Live @ 5' on 24th and 25th Sept)

'Live@5' Introductory Keynote Speakers;

- ✓ Cato Vevatne, CEO, KVS Technologies AS. "Industrial Robotics: The Robotic Ecosystem – smart, distributed and scalable"
- ✓ Knut Roar Wiig, CEO, Nordic Unmanned AS. "Industrial Drones: Unexplored possibilities and Industrial disruption"

- ✓ 24th Sept. - Industrial Robotics (KVS) – technology and operations
- ✓ 25th Sept. - Industrial Drones (Nordic Unmanned) - technology and operations
- ✓ 24th and 25th Sept. – Machine diagnostics