

IMA World Maintenance Forum 2016

05 to 07 April 2016
Maintenance Best Practices
Convention Centre, Lugano – Switzerland.



IMA World Maintenance Forum 2016

The International Maintenance Association IMA, together with The University of Applied Sciences and Arts of Southern Switzerland (SUPSI) in collaboration with OMAINTEC, announces the organization of the IMA World Maintenance Forum in Lugano, Switzerland, since 05th till 07th April 2016.

The International Event will focus on Sustainable Operations and Maintenance, Maintenance within Asset Management, Asset Reliability, and current Maintenance Best Practices, including for:

Energy

- Power Generation Plants
- Nuclear Plants
- Renewable Plants
- Wind Farms
- Oil & Gas

Transportation

- Infrastructures
- Railways
- Aircrafts
- Fleet Management

Continuous Maintenance and Monitoring of Cybersecurity:

- SCADA security
- European critical infrastructures and cyber protection
- Internet of things security
- Facility and Asset Management
- Smart Buildings
- Smart Applications
- Smart Cities

Training and education

- Innovation
- Automation
- Manufacturing
- Factory of the Future

Conference Target

- International and Governmental Organizations, Banks, Insurances, Legal System
- Asset Owners, Operators and Users
- Universities and Professional Schools
- Government Agencies, Organizations for Standardization
- Maintenance Contractors
- Managing Directors, Contract managers
- Heads of O&M Divisions
- Managers of Maintenance Materials & Warehouses

Speakers and Participants

From 26 countries: Europe, China, Middle East, North and South America, with 400 Participants Expected, 70 Speakers and 1'500 International Stakeholders, directly or indirectly

Programme

5th April 2016

1st Day

10.00 - 10.30 **Grand Opening**
Chairman: Emanuele Carpanzano, SUPSI, Switzerland
Mohammad Al Fouzan, OMAINTEC
Zohair Al Sarraj, IMA
Li Baowen, Guangzhou University; IMA-China

10.30 - 12.30 1.1
Plenary Session & Key note speech: Smart Cities
Chairman: Claudio R. Boer, SUPSI Senior Advisor, Switzerland

Eduard Xalabarder, Spain
Smart city case study: Barcelona

Venkatasamy Ramesh, Saudi Arabia
Innovative Technologies to Enable Smart Grid

Maurizio Peralti, SMART GORLA Switzerland
From anti-counterfeiting to certification of maintenance operations

Gianni Minetti, PARADOX ENGINEERING, Switzerland
The Internet of Things for smarter Asset Management

12.30 - 13.50 **Lunch**

14.00 - 16.00 1.2
Afternoon parallel Session

1.2.1
Session Title: Asset Management
Chairman: Alan Wilson, CARMICHAEL, United Kingdom

Mohammed Al-Mofarj, SEC, Saudi Arabia
Spur investment to extend assets life

Christer Idhammar, IDCON, USA
Asset Management: Development and implementation of an Asset management strategy

Santiago Sotuyo, ARMS RELIABILITY, Uruguay
Proactive Asset Management

Tim Zaal, Hogeschool Utrecht, Netherland
ISO 55000 and Maintenance Organization

Jean Paul Foucault, Université Sorbonne, France
Asset management data reliability in the field of capital expenditure for building maintenance: an evidence-based budgeting approach

1.2.2
Session Title Standardisation
Chairman: Per Schjølberg, NUST, Norway

Ali Amer Al-Khairi, NATIONAL GRID, Saudi Arabia
Working Practices and Needs for Improvement

Theodor Bühler, Consultant, Switzerland
The growing importance of technical standards

Mamdouh M.Saleh Bukhari, BENGHAZI UNIVERSITY, Lybia
O&M Management Standards

Graziano Perotti, FESTO CTE, Italy
Best practices implementation on the basis of a self audit

1.2.3

Session Title Proactive Maintenance

Chairman: Claudio Rolandi, SUPSI, Switzerland

Giovanni Golinelli, BONFIGLIOLI, Italy
An innovative maintenance information system for high speed pharmaceutical machines

Maximilian Austerjost, TECHNICAL UNIVERSITY OF DORTMUND, Germany
Potentials of knowledge based maintenance networks

Cathrin Plate, FRAUNHOFER INSTITUTE FOR FACTORY OPERATION AND AUTOMATION, Germany
The Mobile Observer - Smart Measuring Box for Condition Monitoring of Conveyors

Nabil A. Aziz Saba, NATIONAL GRID, Saudi Arabia
Correction of Bonding Cable System to reduce Induced Voltage & Circulated Current r

16.00 - 16.30 **Coffee & Tea Break**

16.30 - 18.00 1.3
Afternoon parallel Session

1.3.1

Session Title: Sustainability for Maintenance

Chairman: Li Baowen, Guangzhou University; IMA-China

Saverio Albanese, ENI Versalis
Sustainable maintenance: the importance of the Maintenance for the sustainable development and some practical advices

Hossam Eldin Hassan Elborombaly, EFFAT UNIVERSITY IN JEDDAH, Saudi Arabia
Green Nano Architectural Materials use in Conservation the heritage buildings "As a Raw Material and energy Saver for sustainability

Khaled Abdul Hamid El Nems, PARSONS INTERNATIONAL LTD, United Arab Emirates
The Electronically Control of Civil Works for Infrastructure (O&M) (Green Management)

Ibrahim Motawa, HERIOT-WATT UNIVERSITY EDINBURGH, United Kingdom
Big Data analytic for Asset and Facility management

1.3.2

Session Title: IT Tools Enabling Maintenance

Chairman: Name and Organization Name

Bernd Frey, ORIANDA SOLUTIONS, Switzerland
Augmented Reality / SAP / 3D Printing

Venkatasamy Ramesh, NATIONAL GRID, Saudi Arabia
Integrating Weather Station with Substation Automation System with Precision Time Synchronization

Tom Brooks and Pietro Veragouth Newbiquity Sagl
Mobile Telepresence for Remote Maintenance: Augmented Realty lets expertise flow anywhere within the organisation

6th April 2016

2nd Day

8.30 - 10.20 2.1
Plenary Session & Key note speech: Cyber Security in Operations and Maintenance
Chairman: Alessandro Trivilini, SUPSI

Hussain Hassan Al-Makrami, NATIONAL GRID, Saudi Arabia
Integrated Anomaly Detection for Cyber security of the Substations

Claudio Bareato, STUDIO INGEGNERIA, Switzerland
Auditing the security of operation and maintenance as a significant contributor to ensuring corporate resilience against the new cyber threats, vulnerabilities and risks

Enzo Maria Tieghi, SERVITECNO, Italy
Security and Network Protection are a tough challenges for Industrial Internet and for Industrial Internet of Things

Andreas Kartawinata, RPM, Indonesia
Enhancing Facility Management with Mobile Application

10.20 - 10.50 **Coffee & Tea Break**

10.50 – 13.00 **2.2**
Morning Parallel Session

2.2.1
Session Title: Facility Management
Chairman: Jamal El Chaar, IMA, Switzerland

Ayman Rashed Al-Shehri, HERIOT WATT UNIVERSITY EDINBURGH, UK
Facility Management Framework for Schools Building

Hossam Eldin Hassan Elborombaly, EFFAT UNIVERSITY JEDDAH, Saudi Arabia
Methodology of Maintenance the Architectural Elements

Karl Mueller/Alexander Redlein, VIENNA UNIVERSITY OF TECHNOLOGY, Austria
Operator responsibility in health care facilities

Alam Shauquat, AL BILAD O&M,
O&M Management Control in KSA Education Facilities [Buildings] – Linking Strategy with unified methodology of Dynamic maintenance Theory

2.2.2
Session Title: Strategic Management
Chairman: Guido Walt Wear Management Switzerland

Krige Visser/Mark Skinner, UNIVERSITY OF PRETORIA, South Africa
Maintenance Strategy and Maintenance Performance Measurement in the Automotive Industry

Moustafa Kassab, TAIBAH UNIVERSITY, Saudi Arabia
Decision making in operation & maintenance of highways' projects using game theory

Li Baowen, GUANGZHOU SHAREFORD MAINTENANCE CONSULTING CO, People Republic of China
About Maintenance Audit

Roberto Cigolini, POLITECNICO DI MILANO, Italy
Using PF/PPP in infrastructure projects involving maintenance

Rolando Fuentes Reyes, YPFB REFINACION S.A, Bolivia
Turnarounds and TOC (Theory of Constraints)

2.2.3
Session Title: Reliability Availability Maintainability Safety
Chairman: Maria Pia Colasanto, RAMS&E

Abdullah Atyah Al-Ghamdi, Country SAUDI ELECTRICITY COMPANY, Saudi Arabia
Replacement Prioritization of Major electrical assets at HV substation

Terje Nilsen / Rolf Arne Syvertsen, LLOYDS REGISTER CONSULTING, Norway
Railway - Selection and application of risk acceptance principles for new strategies in maintenance program development and optimization

Chris Rijdsdijk, HZ UNIVERSITY OF APPLIED SCIENCES, The Netherlands

Validation of RAMS requirements; a case study

Rabia Khelif, University of Badji Mokhtar Annaba KSA

Reliability analysis and Inspection/ maintenance planning for pipelines under corrosion effect and residual stress

13.00 - 14.10 **Lunch**

14.10 - 16.00 **2.3**
Afternoon Session

2.3.1

Session Title: Continuous Maintenance and Monitoring of Cybersecurity

Chairman: Gerardo Costabile - Head of Security & Safety - Fastweb Spa (Swisscom AG Group)

Francesca Bosco - Project Officer, Emerging Crimes Unit, United Nations Interregional Crime and Justice Research Institute (UNICRI)

Title of Paper European critical infrastructures and cyber protection

Andrea Carcano - Co-founder and CEO - NOZOMI Networks - Switzerland

Title of Paper Why Standard IT technology fails in protect SCADA system: a real case

Antonio Mauro - Head of Security and Compliance Assurance at Octo Telematics S.p.A.

Title of Paper Internet of things and cyberSecurity: Vehicles security or (in)security?

2.3.2

Session Title: Aeronautics

Chairman: Pierclaudio Iaia, Alenia Aermacchi, Italy

Hans Christian Stuber, TETRAERO, Switzerland

Data collection over long distances on critical infrastructures (pipelines, powerlines and railway).

Paula Gonçalves, PORTUGUESE AIR FORCE, Portugal

Safety Assessment of Unmanned Aerial Vehicle Systems: Practical Application

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2.3.3

Session Title: Energy

Chairman: Name and Organization Name

Darkam Al-Janabi, Martin Birkett, Sara Walker, Chris Connor, NORTHUMBRIA UNIVERSITY, United Kingdom

A Mixed Methods Approach to Investigate the Need for Total Productive Maintenance (TPM) in Iraqi Power Plants

Fahad Ahmed Al-Zahrani, NATIONAL GRID, Saudi Arabia

RTV Coated Insulators Eliminate Pollution-related Maintenance Problems in the Coastal Network of National Grid

Daniel Roger Pfammatter, EECC, Switzerland

Gas turbine installations maintenance – a focus on auxiliaries facing cost reduction measures

Yousef Saeed Nassir Al-Sharif, NATIONAL GRID, Saudi Arabia

Aging Assets - A Major Challenge to Electric Power Utilities

Bamoussa/Siddiqui, NATIONAL GRID, Saudi Arabia

Improvement in Life span of Generator Transformers

16.30 – 17.00 **Coffee Break**

7th April 2016

3rd Day

8.30 - 10.00 **3.1**
Workshop Parallel Sessions

3.1.1

Work Session Title: Reliability, Maintainability and Safety for Process Systems in the Oil & Gas Domain

Chairman: RAMS&E

3.1.2

Work Session Title Mobile Security Challenges in Modern Enterprises

Chairman: **Andrey Belenko, Skype**

10:00-10:30 **Coffee & Tea Break**

10.30 - 12.00 **3.1.3**

Work Session Title: Operations and Maintenance for railways and undergrounds

Chairman: MSFI + ITALCERTIFER

3.1.4

Work Session Title: Additive manufacturing for spare parts building

Chairman: SUPSI

12.00 – 14.00 **Lunch**

Facility Tours:

- Railways MRO in Bellinzona
 - Swiss Helicopters in Gordola
 - RUAG Lodrino
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*Lugano, the city where the **The IMA International Operation And Maintenance Forumis** going to take place.*



Città
di
Lugano



Scuola universitaria professionale
della Svizzera italiana
SUPSI



