



# EFNMS Newsletter #6

## (March 2019)

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## Activities

### Webinar “Confined Space Entry”

**Save the date: May 6th, 2019 at 14:00pm**

Closed Confined Spaces that require a special permit to work with, demand extra attention. Workers cannot simply start working without being certain that they know all about the safety measurements that need to be taken. At the same time the management is responsible to make sure that all their workers and Maintenance Professionals will be ready to deal with permit-required-confined spaces (PRCS) and will know what to do in case of an emergency.

The EFNMS – European Federation of National Maintenance Societies is organizing a webinar about “Confined Space Entry”. It will take place on May 6th, 2019 (14:00–16:00 CET) and will be able to transfer knowledge to all interested participants, about the importance of maintaining a safe behavior while working in PRCS, what to do when they identify one and how they are supposed to proceed.

Some of the most important topics of this training will be the following:

- How to identify a confined space in the workplace with examples
- How to distinguish whether a confined space is a PRCS
- How to conduct a Risk Assessment by identifying the hazards
- Hazardous atmospheres (toxic, flammable, asphyxiating etc.)
- What does a Safe Method of Work in a PRCS include
- What type of measurements must be conducted prior to entry and in what order

The trainer, Dr. **George Scroubelos** is the Chairman of the EFNMS OH&S Committee, has a lot of experience working in industrial plants and underground mining operations.

For your **registration** as well as for more **information** about the training, you can click [HERE](#). The only technical requirements for your participation in the webinar is a PC and internet access. Please note that the **members of the EFNMS** have a **20% discount** using the coupon **EFNMS2019**.

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## GFMAM Project 20

The GFMAM’s new project **Maintenance Framework – Revision to Second Edition** officially started a month ago. The main reasons (findings, opinions) for needed revision of the first edition from February 2016 are:

- number of people who have reviewed the document from an end-user perspective have struggled with its usability. At the heart of the document is a framework diagram that itself is not consistent with many texts on the matter of maintenance;
- review and update to reflect improvements and feedback from end users in industry, and incorporate new maintenance developments. This will sustain its usability as a reference in Maintenance and Reliability world-wide.

In February the first common GoTo meeting was carried out. Jean-Pierre (J.P.) Pascoli from Canada had prepared the agenda and led the meeting. GFMAM members and attendees at the meeting:

Name	Country	Member Association
Jean-Pierre (J.P.) Pascoli	Canada	PEMAC – Plant Engineering & Maintenance Association of Canada
Nezar Shammasi	Saudi Arabia	GSMR – Gulf Society for Maintenance & Reliability
Zensuke (Zen) Matsuda	Japan	JIPM – Japan Institute of Plant Maintenance
Janez Tomažin	Slovenia	EFNMS (EAMC – European Asset Management Committee)
Rick Wheeler	USA	SMRP – Society of Maintenance & Reliability Professionals
Peter Kohler	Australia	AMC – Asset Management Council
Saad Al Ulaimi	Saudi Arabia	GSMR – Gulf Society for Maintenance & Reliability

Common vision and mission (discussed shortly at the meeting):

- best global view;
- produce a product that GFMAM will be proud of;
- share knowledge, information, ...

Some decisions:

- project timeframe: app 12 month (only rough estimation);
- GoTo Meetings or similar once per month;
- all participants should read the first edition and prepare themselves for the second meeting in March.

**Janez Tomažin**

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## Events

### 25th HDO International and Mediterranean Conference on Maintenance

MeditMaint 2019 in Dubrovnik, Croatia

#### **MAINTENANCE 2019**

Croatian Maintenance Society (HDO) is especially pleased to invite you to participate as participant, exhibitor or partner in the 25th HDO Mediterranean International Conference and Exhibitions MeditMaint 2019 – Maintenance 2019. This year's conference and exhibition will be held on 22–24 May 2019 in Duborvnik, Hotel Croatia Cavtat under motto: **Development is Maintenance.**

HDO expect more than 150 participants, renowned plenary lecturers from Mediterranean countries, across Europe, which should especially focus on leaders and maintenance managers as well as professionals and asset management experts.

The mission of this Conference is to exchange knowledge and experience as well as networking of experts, scientists and businessmen who are directly or indirectly linked to maintenance and asset management.

The official languages of conference are English and Croatian. Here are some important dates: Notice of accepting the application – 15 April 2019; Exhibitor application – 15 April 2019. Please find the application form on [www.hdo.hr](http://www.hdo.hr), or you can contact us by the mail [hdo@hdo.hr](mailto:hdo@hdo.hr) and get all the informations.

The topics on the MeditMaint 2019 are; *How was designed and how to maintain the largest bridge that is being built right now in Europe (Peljesac Bridge)*; the latest EFNMS lecture and workshop *Physical Asset Management in front of fast changing business environment and new technological*, problems of bridge and road indenture in Europe – and much more.

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## The Swedish Maintenance Society – 50th Anniversary!

The Swedish Maintenance Society celebrates its 50th Anniversary, the 3rd and 4th of October this fall. You and your colleagues are welcome to join us for our celebration. An anniversary banquet will take place in the evening of the 3rd October.



The EFNMS committee meetings and General Assembly dinner will be on Friday the 4th of October and the General Assembly at Saturday the 5th of October.

A detailed invitation with a full program of interesting conferences, workshops and possibilities for networking and of course the banquet will be presented later this spring.

**Torsten Ekström**  
CEO

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## Visit BEMAS at Maintenance 2019

*On March 27 and 28, BEMAS vzw-asbl is present at Maintenance 2019. Visitors can visit BEMAS and the bookshop at booth A3022, participate in the Digital Innovation Tour and enjoy several masterclasses.*

### **BEMAS bookshop and bar**

At our booth (A3022), you can browse the bookshop, get more information on our training courses and projects, and enjoy a drink at the bar.

### **Robot Demo Zone**

Here visitors can discover what we do in the Interreg project Smart Tooling, together with KICMPI (the knowledge center for the maintenance industry). Several innovative companies will demonstrate their revolutionary products here.

### **Four masterclasses about new trends in maintenance**

BEMAS co-hosts 4 masterclasses: [Dirk De Nutte](#) focuses on the digital transformation from predictive to prescriptive maintenance, [Adriaan Van Horenbeek](#) talks about advanced analytics in manufacturing, [Maarten Herthoge](#) explains the hype behind artificial intelligence, and [Benny Lauwers](#) gives an update on augmented reality.

The masterclasses take place in Dutch. Visitors can register via the [website of Maintenance 2019](#) or at the fair itself.

### **BEMAS Digital Innovation Award and Tour**

BEMAS also proclaims the annual Digital Innovation Award on Wednesday evening March 27th. For the 9th edition of this award, a panel of judges selects the best digital innovation of this year. Visitors can also vote for their favorite innovation via [the website of Maintenance 2019](#).

Curious about the finalists? Visitors can join a guided tours to their booths to discover all the innovations. Register via [the website of Maintenance 2019](#).

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## **Maintenance in the Grip of Time and Knowledge**

### **XXXI. International Maintenance Conference**

15–16 April 2019, Veszprém, Hungary

The symposium would like to help manager directors and professionals at organizational units (shop-floor maintenance, production management, investment, project management, informatics, controlling and knowledge transfer) who are involved in managing fixed asset streamlining.

As a results of the conference positive outcomes in the following competences are expected: competitiveness, value creating thinking, reliability, preciseness, loadability, environment conscious thinking, information processing and strategic thinking skills.

In accordance with the conference aim apart from Hungarian speakers internationally recognized academics and practicing professionals are invited to present.

[Read more >>](#)

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## **News**

### **An overview of EuroMaintenance 2018 Award winners**

EFNMS-newsletter has already introduced the two award winners Dr **Peter Kipruto Chemweno**, Author of the winning Salvetti Foundation Award PhD Thesis 2018 and **Asier Erguido**, Author of the winning Salvetti Foundation Award Master Thesis 2018. The Awards have been presented to both during the EuroMaintenance opening ceremony at Antwerp.

We also would like to honor the European Maintenance Manager and the Best5Papers Award winners.

Winner of the **European Maintenance Manager Award 2018** is **Marc de Kerf**

Representing Belgium as Maintenance Manager BASF.

Nominated for his vision on 'maintenance of the future' at operational as well as conceptual level.

Biography:

MSc Mechanical Engineering (KULeuven) and a MSc Industrial Sciences.

Currently Marc de Kerf is Global Expert Maintenance & Asset Management Petrochemicals for BASF.

He is also member of the Global forum of maintenance associations for asset management. Marc has a deep interest in coaching young maintenance professionals by leading them to senior management positions. More over over his departmental safety statistics are excellent.

Final results for the **Best 5 Papers** after using an electronic voting system for the assessment presentations at EuroMaintenance in Antwerp have been:

Category	Presentation Title	Presenters
Asset Management	Strategic Asset Performance Management: How to Tackle the Pitfalls at Heineken	<b>Piet van der Schaar</b>
Health, Safety and Environment	From Reactive to Proactive Safety Culture at Bosal	<b>Wout Theuws</b>
Maintenance Management	Smart Sensing Technology for Low Voltage (LV) Motors and Pumps Bringing Predictive Analytics	<b>Jonas Spoorendonk</b>
Reliability Fundamentals	The Anatomy of a Well-Planned Reliability Centered Maintenance (RCM) Analysis in a 4.0 World	<b>Nancy Regan</b>
Smart Maintenance	Predictive Maintenance Trends and Insights Based on a 2018 Market Survey in North-West Europe	<b>Peter Decaigny &amp; Jochen Vincke</b>

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## New material for the EFNMS certification

New certification material is going to be developed by six EFNMS members; Sweden, Finland, Czechia, Hungary, Slovenia and Iceland. Recently the project group held a creative meeting in Helsinki to set the workflow for the future work and to consolidate the qualifications for maintenance personnel.



*Project group.*

This will be the base for a future certification model and the first step in the development process in the project is to review the qualifications for the four levels of maintenance:

- Maintenance managers.
- Maintenance engineers/supervisors.
- Maintenance technician specialists.
- Maintenance mechanics, electricians and automation electricians.

The qualifications and requirements for knowledge, skills and competences for the first three levels are defined in the standard EN 15628 – Qualification of maintenance personnel.

The project group concluded that these requirements need to be clarified and structured in a way that makes it easy to create validation issues and at a later stage facilitate the work of developing a computer-based exam.

The project group also decided that there must be a clear link between the certification and EFNMS Body of Knowledge, where the standard EN 17007 – Maintenance process and associated indicators – is included as a central part.

Once the qualifications are well established, the work begins on creating new validation questions for the different levels, which will be used for the future exams.

**Torsten Ekström**

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## **Harmonised Indicators to be updated**

### **Measure your maintenance and reliability performance using predefined indicators.**

The Global Maintenance and Reliability Indicators reference book containing 29 metrics/indicators is currently under review by maintenance and reliability professionals from the two organizations: The Society for Maintenance & Reliability Professionals (SMRP) and the European Federation of National Maintenance Societies (EFNMS).

The updated Global Maintenance and Reliability Indicators book will capture the changes in the metrics/indicators from the first release in 2008. The harmonisation book will describe the differences and similarities between the SMRP metrics and the Indicators from the CEN standard 15341 – Maintenance Key Performance Indicators.

The harmonisation process will also respond to the request from the delegates at several workshops to suggest which indicators to be used in the maintenance processes.

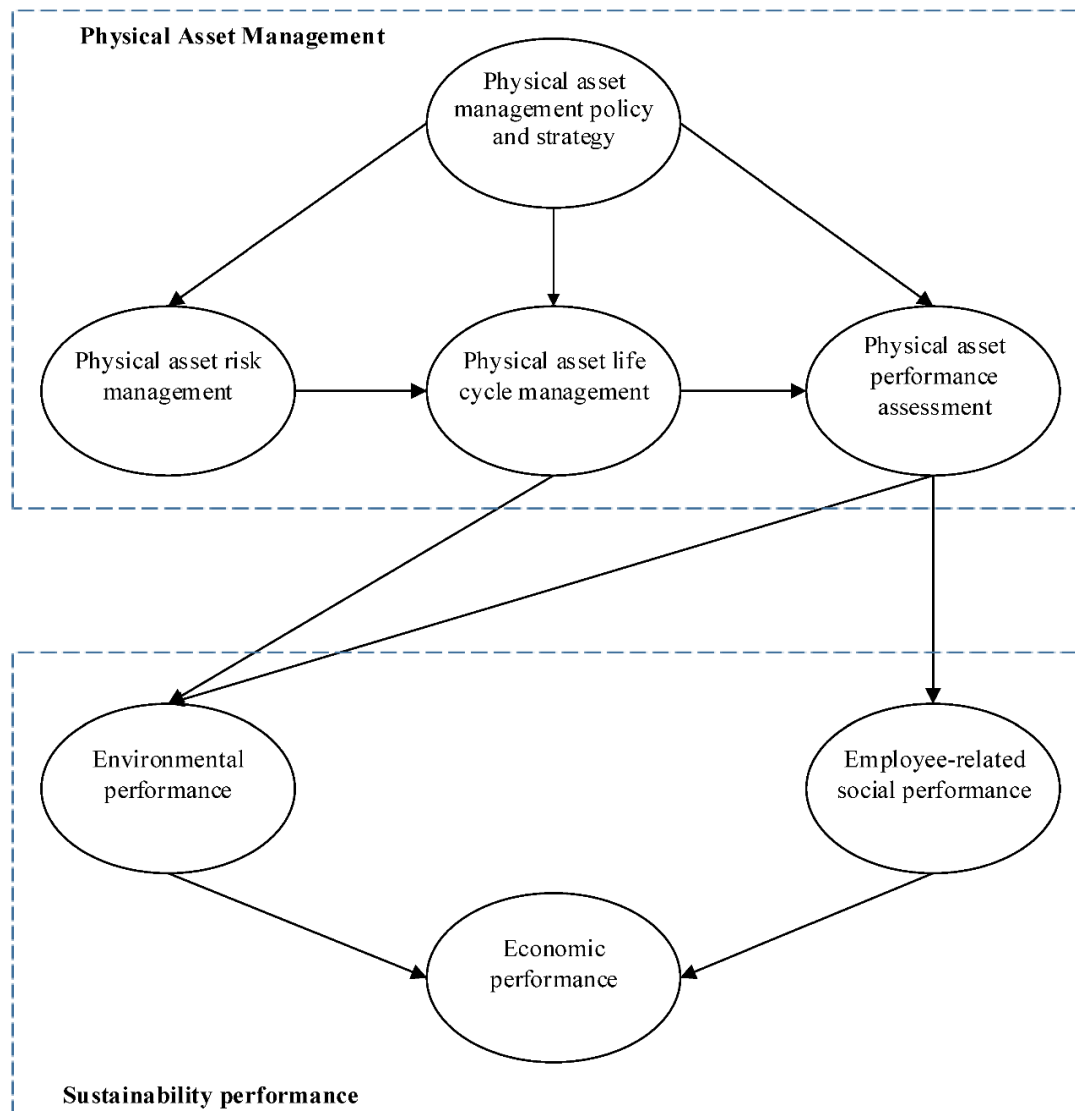
The updated workbook will be on sale from [www.smrp.org](http://www.smrp.org) or [www.efnms.org](http://www.efnms.org)

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## **Does Physical Asset Management Contribute to Sustainability Performance?**

In a recently published paper (entitled [Development of a Model Linking Physical Asset Management to Sustainability Performance: An Empirical Research](#)), the researchers surveyed organizations aiming to explore the link between physical asset management practices and sustainability performance. The aforementioned study employed a data set based on a large-scale survey among organizations in six European countries (i.e. Slovenia, Poland, Greece, Sweden, Turkey and Slovakia). Data were collected from 138 organizations located in the above-mentioned countries to conduct the study.

The results of the research showed that physical asset management practices positively influence the sustainability performance outcomes, namely economic, environmental, and employee-related social performance. Overall, this study demonstrates that a physical asset management framework can be conceptualized by four sub-constructs, namely physical asset risk management, physical asset performance assessment, physical asset lifecycle management, and physical asset policy and strategy.



Maletic, D., Maletic, M., Al-Najjar, B., & Gomiscek, B. (2018). Development of a Model Linking Physical Asset Management to Sustainability Performance: An Empirical Research. *Sustainability*, 10(12), 4759.

Want to learn more:

Dr. **Damjan Maletic**

University of Maribor, Faculty of Organizational Sciences

Member of the European Asset Management Committee

E: damjan.maletic@um.si

Join our discussion on [LinkedIn](#).



# The Safety 4.0 challenge: The Asset Integrity Management for Safety Critical Element risk management

Authors: Dr. **Eduardo Calixto**, ECC (Germany) & **Pól Stewart**, Enkelt (UK)

Since 2010, the new era of Industry 4.0 becomes to be reality for many industries across the globe. In the last five years new IOT technology development has been applied to AM based on different topics such as Big Data, Prognostic Health Maintenance and Machine Learning, being part of the so-called Maintenance 4.0.

Despite of all development, that enable an integrated AM too much focus has been given for maintenance and a lack of effort for safety concerning the safety critical element management.

However, it's very important to establish a process to enable an effective AIM flow into the AM process as shown in *figure 1*.

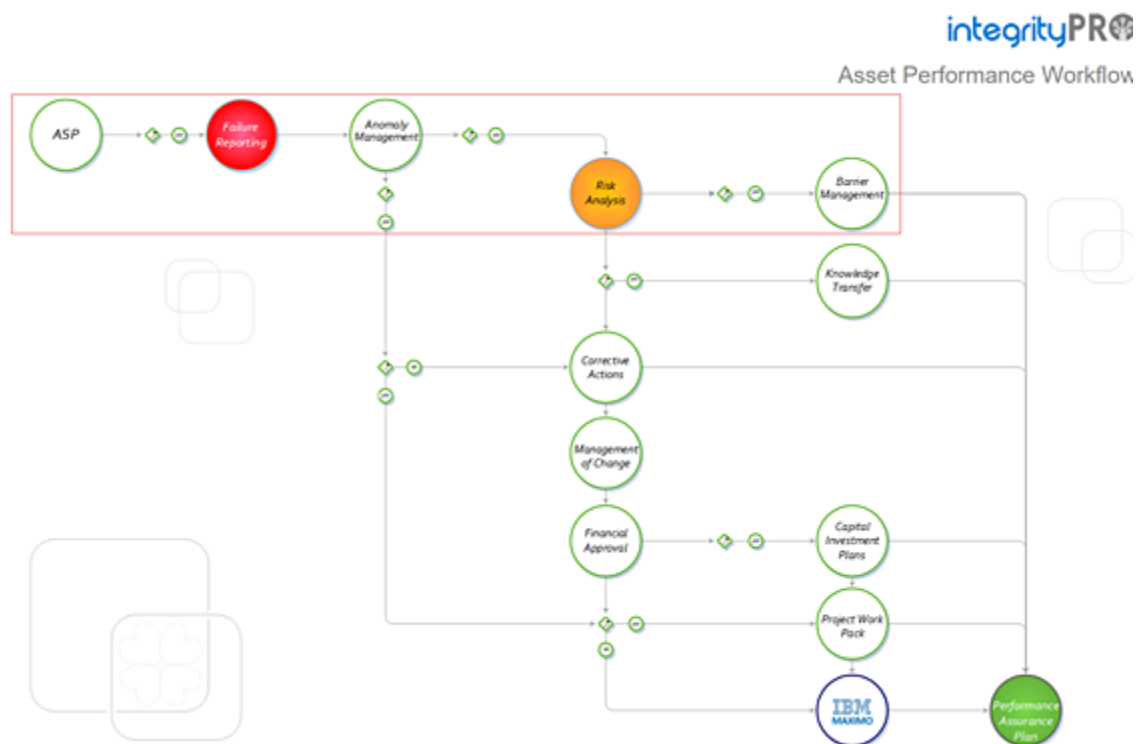


Figure 1: AIM flow into AM Process. Source: Integrity PRO, Enkelt, 2018.

The figure 2 describes the AIM flow, highlighted in red, as part of the AM flow described. In case of AIM, the safety management takes place in the fourth step, which encompasses all safety meeting and incident reports as well as the barrier model as described in *figure 2*.

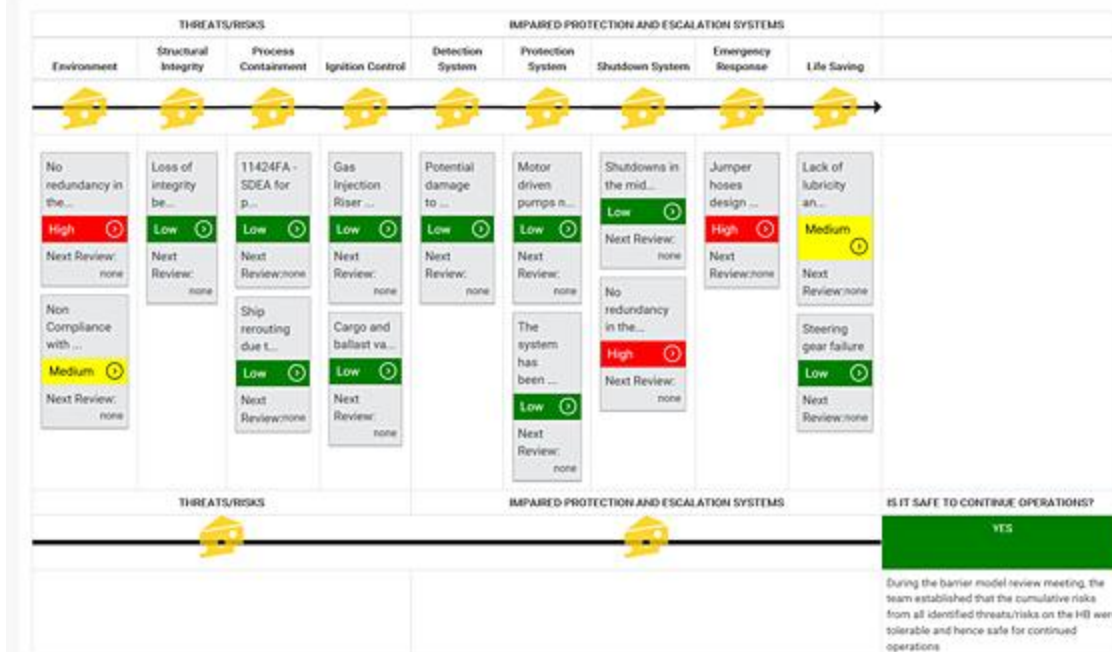


Figure 2: Safety Critical Element Barriers Model. Source: Integrity PRO, Enkelt, 2018.

Since the Critical Safet Element are defined and the risk is classified, the Barrier Model is automatically updated and enable the Asset Integrity and Safety managers to manage the risk of the safety critical elements in daily basis.

Please find the complete paper [in the link >>](#)

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Best regards,  
EFNMS Newsletter Team

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With Maintenance Greetings

**Cosmas Vamvalis**   **David Merbecks**

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