



# EFNMS Newsletter #8

## (June 2019)

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# Activities

## EFNMS Chairman Elections

During the EFNMS GA at Paris on the 11th of May elections for the next EFNMS Chairman took place. On these elections **Cosmas Vamvalis** from HMS (Greece) was voted for next EFNMS Chairman. Candidate for EFNMS Chairman was also **Wout Theuws** representing BEMAS (Belgium).



*Cosmas Vamvalis (left) and Wout Theuws.*

## The EFNMS Health, Safety & Environmental Committee on Carcinogens

*Ellen den Broeder – NVDO, Jos de Lange – TNO, George Scroubelos – HMS*

On May 10, the European Health, Safety & Environmental Committee (EHSEC) met in Paris for the semesterly proceedings regarding the promotion of HSE issues among its members. As of 2011, EFNMS is actively supporting the European Organization's Occupational Health & Safety Administration (EU-OSHA) efforts by participating as a partner in the promotion of the biannual thematic Campaigns.

The 2018-2019 Campaign was dedicated to the safe management of dangerous substances. At the same time, the stress was exercised on the issue of cancer an emerging risk throughout the developed countries hence in the EU as well. It's the Netherlands government who initiated the Roadmap on Carcinogens. TNO and the NL-Focal Point are assisting in the roll-out of the Roadmap through Europe.

Therefore, in the epicenter of this meeting was the way EHSEC could contribute in this effort. One of the distinguished guests that honored EHSEC with his participation was **Jos de Lange**, Senior Consultant and Focal Point Manager of the Organization. Mr. De Lange addressed EFNMS' members through EHSEC "AN INVITATION TO GET INVOLVED" in this pan European effort to face this serious emerging risk.

The facts are quite alarming: In Europe each year 100.000 people die because of work related cancer caused by carcinogenic substances

- 7-12 deaths every hour
- 10-12 new cases every hour

The latest (2017) ILO figures were presented adopted from a research by J. Takala as shown below:

Table 1 Rough division of occupational cancer by EU28 member states and subterritories within the EU in 2011

And new ILO data released in 2017

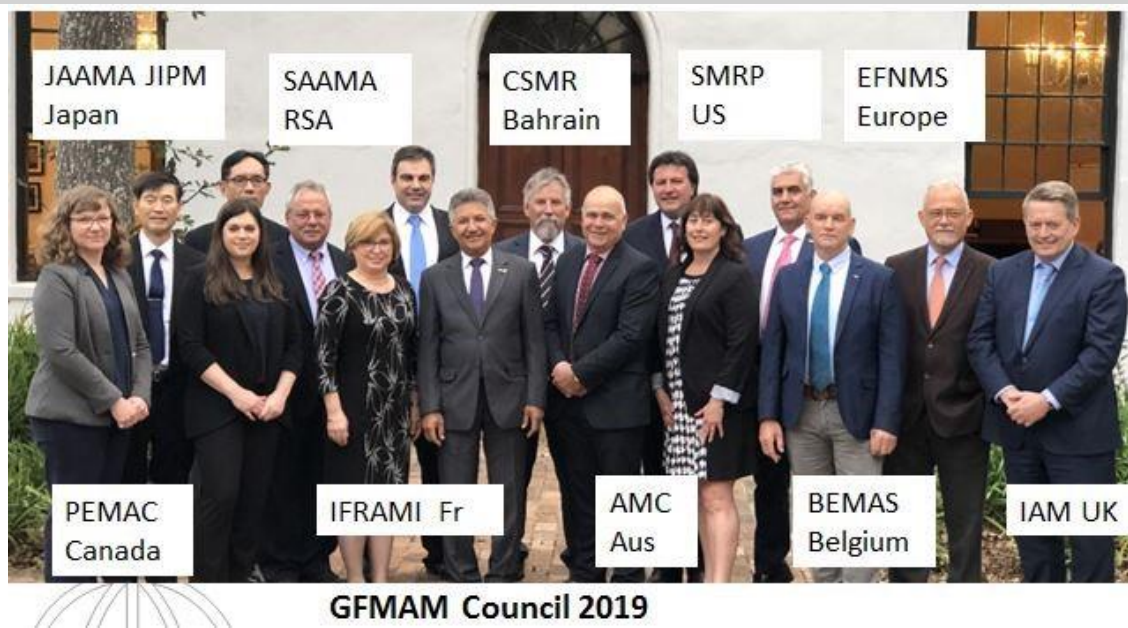
Country	Occupational cancer deaths	
Andorra	17	17
Austria	1896	1820
Belgium	2098	2079
Bulgaria	1481	1445
Croatia	849	742
Cyprus	183	179
Czech Republic	2326	2238
Denmark	1285	1242
Estonia	303	292
Finland	1163	1135
France	12,623	12035
Germany	18,180	17706
Gibraltar		5
Greece	1678	2131
Greenland	13	14
Guernsey		13
Hungary	1860	1808
Ireland	968	928
Isle of Man	18	18

Country	Occupational cancer deaths	
Italy	11,057	10609
Jersey	23	23
Latvia	510	491
Lithuania	710	694
Luxembourg	110	98
Malta	80	75
Monaco	23	21
Netherlands	3879	3721
Poland	7874	7501
Portugal	2457	2371
Romania	4498	4233
San Marino	10	0
Slovakia	1211	1150
Slovenia	446	442
Spain	10,248	9807
Sweden	2201	2103
United Kingdom	14,082	13330
<b>Total EU</b>	<b>106,307</b>	<b>102,517</b>

[Read more >>](#)

## EFNMS present at GFMAM Meeting

EFNMS was present at the council meeting of GFMAM in May in Stellenbosch South Africa by **Wout Theuws**. Wout took over from **Paul Daugalis**, who did an excellent job the past years.



Results from the meeting;

- EAMC collaboration with SAAMA
- Progress project 14 >> EFNMS representor **Damjan Maletic**, DVS
- Project 15 >> EFNMS representor **Kari Komonen**, Promaint
- Progress project 20 >> **Janez Tomazin**, DVS
- Workshop interest by SAAMA; workshop team
- Hosting council meeting Q2 2021 opportunity for NVDO

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### About GFMAM

GFMAM is a nonprofit organization, founded in March 2009. All members of GFMAM are a non-profit organization, controlled by the whole membership, legally formed within its region of operations; have significant membership representing a broad base from within the industries it represents, sharing the same values and objectives.

GFMAM Vision: To be a worldwide community, providing leadership for maintenance & asset management communities

GFMAM Mission: To promote and develop the maintenance & asset management professions by collaborating on knowledge, standards and practices

### Objectives

- To bring together, promote and strengthen the Maintenance and Asset Management communities worldwide,
- To support the establishment and development of associations or institutions whose aims are maintenance and/or asset management focused,
- To facilitate the exchange and alignment of maintenance and asset management knowledge and practices,



- To raise the credibility of member organizations by raising the profile of the Global Forum.

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## SAAMA and EFNMS (EAMC) cooperation

During the SAAMA conference **Johannes Coetzee**, Chairman of SAAMA (South African Asset Association) and **Wout Theuws**, Chairman of EAMC (EFNMS Asset Management Committee) signed a letter of intent to collaborate in order to exchange knowledge in the field of Asset Management.

This will provide significant benefit for the members of the 24 National Maintenance Societies, members of EFNMS. First steps are already done such as:

- SAAMA has a successful rewording system for asset management. The requirements swell the system has been provided to EAMC.
- Members of the SAAMA showed a stringed interest in HIRA (Hazard Identification and Risk analyses) process. W. Theuws handed over the process and tools.
- EAMC offered their world-class workshop about Asset Management to SAAMA. SAAMA is now evaluating this.

We are looking forward to the next steps.



*Wout Theuws (left) and Johannes Coetzee.*

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## Workshop "must see, must be"

At the MeditMaint Conference the attention of the auditorium attracted EFNMS workshop Physical Asset Management in front of fast changing business environment and new technological horizons. The Conference was held from 22 to 24 May in Dubrovnik by the Croatian Maintenance Society and the workshop was led by Finnish expert Dr. **Kari Komonen** and Slovenian engineer **Janez Tomažin**.



*Janez Tomažin (left) and Kari Komonen.*

Workshop is unique for the concrete and visualization of knowledge, standards and practical property management studies made in accordance with the EFNMS BoK. It is designed to point to the benefits of managing physical assets throughout the life cycle, which is an important factor in maintenance.

Over the last two decades, the profile of asset management in the industry has evolved from filling financial columns into a complex and recognized economic process. Evolution was followed by many initiatives, open forums and methodologies to speed up the perception of the importance of asset management both in the manufacturing and in the service sector.

As one of the world's leaders in the area of transfer of knowledge and influence on adopting and standardizing new processes in asset maintenance and management, the EFNMS has established a Property Management Committee to contribute to the consolidation of a global opinion on asset management principles and to supplement them further in all EFNMS members. One of the results is the workshops available to all EFNMS national members.

Workshop topics were: physical property management over the entire lifecycle, AM world-wide performance, asset management, integration and sustainability, leadership, communication, competence development, information management, maintenance organization as part of the AM system, alignment of organizational goals with asset management strategies, goals, planning and everyday work, and risk management and decision making process.

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## Events

### **Maintenance conference MeditMaint 2019 was held in Dubrovnik**

From May 22 to 24, the conference MeditMaint 2019 was held in Dubrovnik, organized by the Croatian Maintenance Society. There were about a hundred engineers and managers from seven European countries. The topics were very actual. Why we need CMMS, digitization and Industry 4.0, increasing reliability and availability of technical systems...





Special attention was taken by the EFNMS Workshop on Physical Asset Management in front of fast changes in the business environment and new technological horizons as well as lecture on the construction and future maintenance of the Peljesac Bridge and the state of the road infrastructure with an emphasis on bridges.

The presentation on the Peljesac Bridge was completed by the B.Sc. **Marjan Pipenbaher**, chief bridge designer, and after the Morandi Bridge collapse the

lecture on the inspection of the Croatian bridges was addressed by the Secretary of the Ministry of Construction of the Republic of Croatia Mr. Sc. **Željko Uhlir**.

The workshop was led by Finnish expert Dr. **Kari Komonen** and Slovenian engineer **Janez Tomažin**.

Counseling was particularly ceremonial for two Croatian engineers, **Marko Rukavina** from HIPP Croatia and **Drazen Mlinac** from Zvijezda, who were officially promoted to certified European maintenance management experts. (K. B.)

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## SAAMA Conference Event in Southern Africa

The Southern African Asset Management Association (SAAMA) Conference 2019 marks the sixth year of equipping engineers in the physical asset management industry by learning from the best, in order to be and achieve the best. This year was no different.

From the 14th to the 16th of May 2019 at Spier Wine Farm, Stellenbosch, delegates could once again be enriched and encouraged by industry experts to become industry experts. With this year's focus on the development of physical asset management in Southern Africa, visitors were excited about the keynote speakers;

- Keynote day 1: Assessing the strategic impact, risks and opportunities presented by emerging technologies – applications in asset management  
Dr **Calie Pistorius**, Delta Hedron Limited
- Keynote day 2: What does insurance have to do with asset management? **Charlé Halgryn**, King Price



*SAAMA Conference audience.*

#### SAAMA Conference in a glance

- 2-day conference
- Third day field visits
- 195 paying participants
- 41 presentations
- GFMAM (Global forum Maintenance and Asset Management) 7 presentations
- EFNMS 1 presentation

**Wout Theuws** was representing EFNMS with his presentation, "From reactive to proactive safety culture". Using an exact scenario, a company was faced with, Wout demonstrated how a six-step process improved the company's HSE results. This process includes crucial topics such as accountability, responsibility, structure and strategy, leaving delegates with the extraordinary skills necessary to build and sustain a positive and proactive safety culture.





*Wout Theuws.*

Organisers:  
conference@saama.org.za or +27 10 003 3827.

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## **BEMAS training cycle Maintenance & Asset Management starts in September**

*September marks the start of another BEMAS training cycle in Maintenance and Asset Management. Registrations are still open for the Dutch and French version of the trainings.*

Anyone who works today as a professional in the field of technical maintenance and/or asset management will probably agree: it is a challenging working environment! Technical installations are becoming more and more complex and less large (replacement) investments are being made in installations or factories.

Learning maintenance and asset management on the job is certainly a challenge. That is why BEMAS organizes the course Maintenance Management and Asset Management. Perfect for starting maintenance managers to get a full overview of their job, but also for experienced professionals who would like to gain more insights.

### **Theoretical and practical training**

In addition to the important theoretical models on maintenance, reliability, and asset management, our experienced instructors also provide very concrete tools, solutions and new insights that can be applied immediately in the company. It's the ideal mix between theory, practical exercises and a dynamic interaction between the participants.

Topics include: how a maintenance service is run, how to manage a maintenance budget, how to identify and realize savings opportunities ... In short, you get a complete overview of everything that is needed to manage your technical maintenance service efficiently.

### **Only complete training series in Belgium**

This training cycle is the only training series in Belgium that gives a complete overview of all aspects of technical maintenance. You can also take part in the CMRP exam and have the title of Certified Maintenance and Reliability Professional.

This training cycle is available in French as well as in Dutch. For more information, please visit [www.bemas.org](http://www.bemas.org).

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## **News**

### **Celeste Martens wins title Maintenance Manager of the Year in The Netherlands!**

The jury was full of praise for the 27-year-old **Celeste Martens**. She has made great progress by already including maintenance in the tender phase of a project and by involving the Asset Management team. She has a clear vision on circularity and predictive maintenance and makes the difference there. Martens knows how to achieve maintenance results within CroonWolter & Dros in order

to keep the value of an asset as high as possible.



*Celeste Martens.*

Martens already earned her spurs in the Coen tunnel project by making FMECA analyzes and setting up a system to support the maintenance process. But also collecting data to be able to analyze and optimize is her aim. In a design phase, in conjunction with maintenance and asset management, for example, she always takes energy topics (costs) into consideration when deciding which solution is the best.

### **Motivation**

Martens has been appointed Maintenance Manager of the Year by the NVDO because of the decisive involvement in Training and Selection, but also because of her ability to be familiar with older assets with older data systems and equipment and the hugely successful translation of "From Maintenance to Asset Management"–, the implementation of standardization in maintenance management and the ability to improve in system, people and resources.

Martens has implemented Asset Management, not only within the company, but also within various projects. She has given a huge boost to real-time condition monitoring and predictive maintenance. She likes to seek collaboration. Due to Martens' attention to the value of materials, circular entrepreneurship has become one of the five strategic pillars of CroonWolter & Dros Infra for the next three years.

Celeste Martens will be the icon of the Dutch Maintenance Market in the coming year, which is worth between EUR 31 and 36 billion, no less than 4–5 percent of



the Gross Domestic Product and where around 310,000 maintenance professionals are employed.

[Read more >>](#)

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## **BEMAS starts with Asset Performance Awards**

BEMAS decided to transform the Maintenance Manager of the Year award to Asset Performance Awards. With this change BEMAS is following an important trend in Maintenance, where we see that more and more long-term Asset Management strategies are put in place. The task for Maintenance is to make sure the asset will perform at its selected performance.



BEMAS decided to have 3 awards:

### **Asset Performance 4.0 Award**

Machines and maintenance are becoming more and more intelligent. Internet of Things, predictive analytics and Big Data are new tools that will have to be part of the toolbox of the maintenance teams of the future.

### **Award for Best Improvement in Maintenance and Asset Management**

Optimal maintenance starts with strong best practices. Everything starts with a good basis. The same goes for maintenance and asset management. Optimal maintenance management starts with strong, well thought-out best practices.

## Award for Technical Team of the Year

A technical team can make or break your company. Getting excellent results would not be possible without a strong maintenance team.

First edition will be 20 June 2019. Go to [www.assetperformance.be](http://www.assetperformance.be) to view the finalists and register to witness the presentations.

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## Reorientation of WVIS

*Change in management: Dr. **Martin G. Eckert** succeeds Dr. **Reinhard Maaß** at WVIS*

The WVIS – German Economic Association for Industrial Services e.V. initiates a comprehensive reorientation, which is accompanied by a change in the management. Dr. Martin G. Eckert, active in government affairs and political consulting in the field of energy technology in Berlin for many years, follows Dr. Reinhard Maaß, who also leaves all committees related to his former position at WVIS.



*Dr. Martin G. Eckert.*

The WVIS organizes around 60 companies with 124,000 employees and 11 billion Euro turnovers. Industrial services provide services around the whole value chain of the producing companies and life cycle of plants. The industrial service is characterized by its versatility in terms of customer industries and trades.

Most customers are associated with process industry, like power generation as well as the chemical and petrochemical industry. That is why the strategic reorientation of WVIS aims towards the rapidly changing conditions and market requirements in Germany.

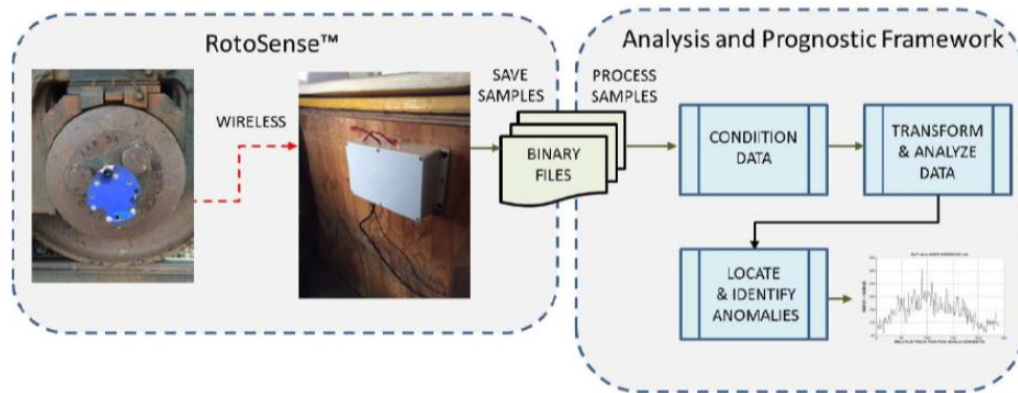
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# Prognostic Health Management (PHM) based on AI Solution for Railway Applications

The (PHM) aims to prevent such corrective action, incident and accident by monitoring the physical asset condition and alert its deterioration or degradation stage. Such methodology relies on sensor information input. Therefore, PHM had the advantage to provide constant health conditions state about the physical asset rather than the schedule preventive maintenance or NDT that also detect the physical asset degradation, but in a specific period.

The PHM based on AI is a very good solution to prevent incidents and new technologies have been developed in the last five years that looks very promisor for the near future for different industries such as railway as shows the figure below.



Basically, the PHM system presented in figure above encompasses two rugged RotoSense wireless sensor modules packaged mounting on the wheels of a rail

car axle, one Sentinel Gateway wireless data collection hub, to collect and store RotoSense data and the RailSafe Toolbox, including the necessary software packages to set up and operate the RotoSense sensors and the Sentinel Gateway, and to extract and display diagnostic and prognostic information based on RotoSense data.

The sensors are mounted on each end of an axle, right where the wheels and track. Finally, the data are analysed using the RailSafe Toolbox, including the Adaptive Remaining Useful Life Estimator™ (ARULE™).

[Read more >>](#)

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## **New online business index: European Maintenance Directory**

BEMAS vzw, the Belgian Maintenance Association, launched a new website 27 March 2019: the European Maintenance Directory, which can be reached at [maintenance.directory](http://maintenance.directory). This unique online guide provides an overview of European companies active in the Maintenance, Repair and Overhaul (MRO) sector.

With the European Maintenance Directory, BEMAS wants to increase the online visibility of companies in the sector and stimulate cross-border business. Companies can register completely free of charge. The extensive search function allows potential customers to search for specific services for specific assets in their own industry and region. The Directory is therefore a highly targeted search engine that makes it easier to find specialised companies, not only in Belgium but throughout Europe.

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BEMAS, Belgian Maintenance Association vzw. is a dynamic non-profit trade association for maintenance managers, maintenance professionals and anyone who in one way or another has to do with maintenance or asset management. BEMAS is a platform for sharing knowledge and best practices in maintenance and maintenance management. In this way BEMAS wants to contribute to an increase of the competence in (Belgian) business and to the creation of added economic value by a sustainable management of machines, installations and buildings. [www.bemas.org](http://www.bemas.org)

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## Legal notice

### Dear Reader of our EFNMS Newsletters!

We hope you've been enjoying the EFNMS Newsletter and other email communications that we've been sending you containing our latest news and updates.

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Best regards,  
EFNMS Newsletter Team

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With Maintenance Greetings

**Cosmas Vamvalis    David Merbecks**

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