

EURO MAINTENANCE



Maintenance Excellence for Sustainable Development

**21st European Congress
on Maintenance and Asset Management**
with trade show floor and multi-track conference

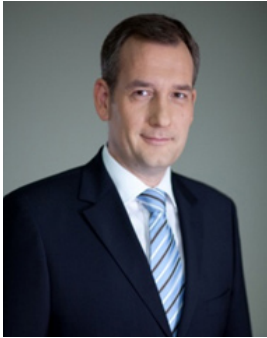
14-16 May 2012
Sava Centar, Belgrade



Hosted by Serbian Maintenance Society
on behalf of European Federation of National Maintenance Societies



Message from EUROMAINTENANCE 2012 Congress President



I am pleased to welcome you to EuroMaintenance 2012 Congress.

EuroMaintenance is an initiative from the EFNMS, the European Federation of National Maintenance Societies for more than 40 years and 21st edition of this Conference and Exhibition will be organized by Serbian Maintenance Association.

We have invested efforts to create a lifetime Congress event by gathering together:

Top speakers and best practice cases from around the world

Different types of industry covering all aspects of Maintenance & Asset Management

Innovative concepts and information ready to use.

It doesn't matter what level of experience you have with maintenance - **there is something here for everyone and always more than you expect.** Maintenance professionals from all over the world will attend to acquaint themselves with the latest technical developments in the area of maintenance and industrial servicing as well as measurement, control technologies and environmental control.

Beside all the possibilities for networking, we will have 90 Paper Presentations from Maintenance and Asset Management Professionals combined with four interesting industrial visits including related workshops in Asset Management, Benchmarking, Risk Assessment and Safety, Health & Environment.

This international event will bring on important issues of maintenance community with purpose to stimulate reflection and debate the challenges and solutions and therefore it represents a unique opportunity to learn from the best how to turn Maintenance & Reliability into key drivers for the Sustainability & Profitability of your company in a global market.

I am sure that your stay in Serbia will be enjoyable and professionally profitable.



Miloš Petrović
EUROMAINTENANCE 2012 Congress President

Why EuroMaintenance 2012 will be a big success?

High Quality Content

- Target: 500 participants
- 2 conference days - 1 workshop day
- 90 world class speakers
- Dedicated program per industry / expertise
- 30 minute sessions for efficient knowledge transfer
- Key-note speakers and Maintenance Management guru's from all over the world
- Practical case studies presented by leading Maintenance Managers from inside and outside Europe

Special Congress event

- "Behind the scene of aircraft maintenance"
- with representatives of Airbus, Boeing, Flybe, JAT Tehnika and SMATSA

Competent speakers willing to share their experience, knowledge and best practices

Innovative concepts and in-depth information - ready to use

EXHIBITION - two days to meet international maintenance suppliers

Congress Agenda

14-16 May

Day One May 14th

08.00 - 16.00 Registration *

09.30 - 11.00 Opening ceremony with Welcome cocktail - Room Amphitheatre

	Room 4	Room Amphitheatre	Room 5	Room 6
14.00 - 16.00 Parallel sessions	Health, Safety, Environment	Maintenance Management	Information Systems	Asset Management
13.00 - 14.00	Lunch - Exhibition Area			
11.30 - 13.00 Parallel sessions	Education, Training, Validation	Maintenance Management	Information Systems	Maintenance Technology
16.00 - 16.30	Coffee Break - Exhibition Area			
16.30 - 18.00 Parallel sessions	Reliability Engineering	Maintenance Management	Maintenance Concepts	Asset Management

WHOLE DAY EXHIBITION

in conjunction with the Conference
A true meeting and networking point for Delegates

Day Two May 15th

08.00 - 16.00 Registration *

	Room Amphitheatre	Room 4	Room 5	Room 6
09.00 - 11.00 Parallel sessions	Maintenance Concepts	Maintenance Technology	Maintenance Assessment	Reliability Engineering
11.00 - 11.15	Coffee Break - Exhibition Area			
11.15 - 13.15 Parallel sessions	Maintenance Concepts	Maintenance Technology	Maintenance Assessment	Reliability Engineering
13.15 - 14.15	Lunch - Exhibition Area			
14.15 - 16.15 Parallel sessions	Maintenance Concepts	Maintenance Technology	Maintenance Management	Reliability Engineering / Planning & Scheduling
18.00 - 19.30	Congress event - Behind the scene of aircraft maintenance - Room Amphitheatre			
19.30	Congress Dinner - Exhibition Area			

WHOLE DAY EXHIBITION

in conjunction with the Conference
A true meeting and networking point for Delegates

Day Three May 16th

- 09.00 - 15.00
Parallel workshops
- Four half day workshops with the world's leading maintenance & reliability specialists at industrial locations in Belgrade area.**
- 1: EFNMS Benchmarking workshop
 - 2: EFNMS Workshop on Safety, Health and Environment
 - 3: EFNMS Physical Asset Management workshop
 - 4: Risk Assessment Management with Maintenance Plan development workshop

* Registration will be open before official start of the Congress, on Sunday May 12, 2012 from 12.00 - 16.00

09.30 - 11.00 OPENING CEREMONY

Mr. Miloš Petrović, Congress President

Mr. Alexander Stuber, EFNMS Chairman

Dr Jezdimir Knežević, MIRCE Academy speaking of
Maintenance - Management of Failures and Provision of Profit

Ms. Katalin Sas, European Agency for Safety and Health at Work speaking of
Safe Maintenance Campaign results

Mr. Arjo Klijn, Salvetti Foundation - handing out prestigious maintenance prizes to

Winner of EuroMaintenance Incentive Award

for exceptional achievements in maintenance and contribution to the sector &

Winner of EFNMS Excellence Award

for best Master Thesis in maintenance

11.00 - 11.30 Welcome Cocktail - Exhibition Area

11.30 - 13.00 Parallel sessions / rooms: Amphitheater, 4, 5, 6

HEALTH, SAFETY & ENVIRONMENT - Room: 4

11.30 The Basics of Safe Maintenance

by Mr. Wim Vancauwenberghe - BEMAS - Belgium

12.00 PARI Maintenance: French Safety Software dedicated to Maintenance Operations

by Mr. Gerard Neyert - AFIM - France

12.30 Future Safety lab - "Do the right thing"

by Mr. Hans Van Selm - Dutch Maintenance Society (NVDO) - Netherlands

MAINTENANCE MANAGEMENT - Room: Amphitheater

11.30 Expectations, Challenges, Achievements - The Maintenance Contribution

by Mr. Jan Franlund - UTEK - Sweden

12.00 Positive and negative aspect in application of Maintenance management philosophy

by Mrs. Hana Pacaiova - Technical University of Kosice - Slovakia

12.30 Defining asset strategy for maximum performance at minimum cost

by Mr. John Coleman - Rusal Aughinish - Ireland

INFORMATION SYSTEMS - Room: 5

11.30 Information in Maintenance - The Decision Making Support

by Mr. Tomás Pedro Clemente Trigo - MIIT - Portugal

12.00 Case Study: Maintenance & Social Networking - how to dramatically raise productivity

by Mr. Thom Quintin - IDSL - Switzerland

12.30 Just in Time Dynamic & Cost-effective Maintenance for more Reliable Production: Case Studies

by Mr. Al-Najjar Basim - Linnaeus University - Sweden

ASSET MANAGEMENT- Room: 6

11.30 European Asset Management Practices: the results of EFNMS asset management survey

by Mr. Kari Komonen - Finnish Maintenance Society - Finland

12.00 Impact of Facility and Asset Management in Croatia

by Mrs. Ljiljana Katičić - HDO - Hrvatsko društvo održavatelja - Croatia

12.30 Pharmaceutical Asset Management Maturity

by Mr. Coolen Vincent - Tebodin - Netherlands

13.00 - 14.00 Lunch - Exhibition Area

14.00 - 16.00 Parallel sessions / rooms: Amphitheater, 4, 5, 6

EDUCATION, TRAINING, VALIDATION - Room: 4

14.00 New European vocational education and training in Maintenance

by Mr. Ingemar Andréason - EFNMS Training Committee member - Sweden

14.30 Maintenance Engineering - study programme development

by Mr. Ales Zdenek - University of Life Sciences Prague - Czech Republic

15.00 The Prestigious Certificates from EFNMS

by Mr. Jan Franlund - UTEK - Sweden

15.30 The Training System of TnPM with Hierarchical Modules

by Mr. Li Baowen - Industrial & Plant Engineering Institute of Guangzhou University - China

MAINTENANCE MANAGEMENT - Room: Amphitheater

14.00 Choosing the right maintenance strategies to achieve desired results from maintenance systems and objectives by Mr. Isleiffson Bjarni Ellert - Alcoa Fjarðaál Iceland - Iceland

14.30 Achieving Sustainable development through Maintenance Excellence

by Mr. Aditya Parida - Luleå University of Technology - Sweden

15.00 Extending the Life of Ageing Assets, by turning Maintenance into an Asset

by Mr. John Coleman - Rusal Aughinish - Ireland

15.30 From Maintaining to Asset care by

Mr. Wout Theuws - BOSAL International – Belgium

INFORMATION SYSTEMS - Room: 5

14.00 Use of geospatial information for supporting maintenance management in a technical network system by Mr. Andrzej Loska - The Silesian University of Technology - Poland

14.30 RAMS implementation for railways

by Mr. Per Kristian Norddal - Marintek - Norway

15.00 An innovative web service for risk assessment in maintenance

by Mr. Georgios Skroumpelos - ACRM S.A. - Greece

15.30 Central Maintenance Database - The Key to Benchmarking

by Mr. Joao Carlos Taborda Amaral e Craveiro - MIIT - Portugal

MAINTENANCE TECHNOLOGY - Room: 6

14.00 How to start condition monitoring

by Mr. Patrick Pilat - XIOS hogeschool Limburg - Belgium

14.30 Application of microwave repair technology on equipment emergency repair

by Mr. Sun Xiaofeng - Suface Engineering Institute of CMES - China

15.00 A low cost Mudbus system for predictive maintenance

by Mr. Farinha Jose - Univesidade do Porto, FEUP - Portugal

15.30 Optimized Condition Monitoring

by Mr. Oscar van Dijk - SKF - Netherlands

16.00 - 16.30 Coffee break - Exhibition Area

16.30 - 18.30 Parallel sessions / rooms: Amphitheater, 4, 5, 6

RELIABILITY ENGINEERING - Room: 4

16.30 Improving Reliability and Maintenance Through Cultural Change

by Mr. Ian Knight - Enluse BV - Netherlands

17.00 Intelligent Malfunction Prognostics

by Mr. Frank Kirchnick - Cassantec Ltd. - Switzerland

17.30 Energy Efficiency=Reliability: The New Equation for Optimized Performance

by Mr. Michael Roberts - SKF - USA

MAINTENANCE MANAGEMENT - Room: Amphitheater

16.30 A Maintenance modeling to assess the availability and the maintenance costs of multi components systems

by Mr. Antoine Despujols - EDF (Electricité de France) - France

17.00 "Virtual workshop" - a use of virtual techniques as a base of supporting of technical means use and maintenance in accordance with the conception of human centred philosophy

by Mr. Wieczorek Andrzej - Silesian University of Technology, Faculty of Organization and Management - Poland

17.30 Modeling of Maintenance Management on the Basis of Given Operative Availability

by Mr. Avdić Hasan - University of Tuzla, Faculty of Mechanical Engineering - Bosnia and Herzegovina

MAINTENANCE CONCEPTS - Room: 5

16.30 Providing outsourced O&M Services to large power plants

by Mr. Ilkka Toijala - Fortum - Finland

17.00 Challenging Countries

by Mr. Dear Bryarlie - Saipem - France

17.30 Incentive Issues in Outsourced Maintenance Supply Networks: A Delphi study in the Process Industry

by Mr. Henk Akkermans - Dutch Institute for World Class Management - Netherlands

18.00 Effective Spare Parts Management

by Mr. Tomas Hladik - LOGIO S.R.O - Czech Republic

ASSET MANAGEMENT - Room: 6

16.30 Maintenance, Engineering and Production as Manufacturing Team

by Mr. Petri Wolfgang- Drpetriconsulting - Germany

17.30 Asset Management Policy and Strategy

by Mr. Jos Van der Aelst - Stork Technical Services - Belgium

18.00 Case Study: Optimising Estates Maintenance

by Mrs. Shimona Shodipo - Investment and Infrastructure Services - United Kingdom

09.00 - 11.00 Parallel sessions / rooms: Amphitheater, 4, 5, 6**MAINTENANCE CONCEPTS - Room: Amphitheater****09.00 How to avoid Condition Monitoring not being profitable in your plant**

by Mr. Sas Jos - GPAllied - Belgium

09.30 Models for successful implementation the "Japanese systems"

by Mr. György Péczely - A.A. Stadium Ltd. - Hungary

10.00 Maintenance partnerships a win-win model for successful outsourcing

by Mr. Erich Meyer - BIS Chemserv GmbH - Austria

10.30 Vendor Relationship Management (VRM)

by Mr. Krishnamurthy Venkata Ramani - Resources Management Consultant - India

MAINTENANCE TECHNOLOGY - Room: 4**09.00 New Power Plant Turbine Cleaning - Technology by TEKE**

by Mr. Esa Moilanen - TEKE Oy - Finland

09.30 Underwater Survey for Large Immersed Structures, Tunnels and Pipes

by Mr. Gérard Douchet - Electricité de France / R&D - France

10.00 Proactive maintenance of pneumatics

by Mr. Gradimir Danon - Faculty of Forestry - Serbia

10.30 Vibration Measurements - More Than Only Spectra

by Mr. Johan Van Puyenbroeck - Emerson Process Management - Belgium

MAINTENANCE ASSESSMENT - Room: 5**09.00 Qualified Key Indicators Processing**

by Mr. Christer Ollson - ColMaint AB - Sweden

09.30 EFNMS-SMRP Maintenance and Reliability Indicator Harmonization Project - 4th Edition

by Mr. Tom Svantesson - TSMC Production and Maintenance Consultants - Denmark

10.00 Maintenance & Reliability Metrics KPI: Unraveling the Mystery

by Mr. Andy Page - GPAllied - USA

10.30 The Status-quo and Characteristics of Chinese Enterprises Maintenance Audit**Assessment** by Mr. Xu Baoqiang - Industrial & Plant Engineering Institute of Guangzhou University, Guangzhou Shareford Maintenance Consulting Co. Ltd. - China**RELIABILITY ENGINEERING - Room: 6****09.00 An Approach to Optimization of Warranty Policy-Case Study**

by Mr. Dragan Stamenković - Faculty of Mechanical Engineering – Serbia

09.30 On the warranty management and the customer relationship in Distribution Network Service Providers

by Mr. Vicente Gonzalez - University of Seville - Spain

10.00 Estimation of component redundancy in optimal age maintenance

by Mr. Jorge Siopa - ESTG, CDRSP, Polytechnic Institute of Leiria - Portugal

10.30 Analysis of the Effect of Random Failures on the Reliability and Availability of a Large**System using Simulation** by Mr. Jacobus Krige Visser - University of Pretoria - South Afrika**11.00 - 11.15 Coffee break - Exhibition Area**

Detail Congress Programme

11.15 - 13.15 Parallel sessions / rooms: Amphitheater, 4, 5, 6

MAINTENANCE CONCEPTS - Room: Amphitheater

11.15 Value Oriented Maintenance - The strategic dimension of the spanner
by Mr. Nils Blechschmidt - ConMoto Consulting Group GmbH - Germany

11.45 Quality Centered Maintenance (QCM);The concept
by Mr. Damir Mihajlović - Nortura SA - Norway

12.15 Global multi-site implementation of an Asset Care Program in the pharmaceutical industry
by Mr. Michael Bucher - Novartis Pharma AG - Switzerland

12.45 Lessons from the Front Lines of the Operator Care Program
by Mr. Michael Gehloff - GPAllied - USA

MAINTENANCE TECHNOLOGY - Room: 4

11.15 Objective and uniform condition assessment for infrastructure, industry, real estate and energy supplies by Mr. Donald Bezemer - D.O.N. Bureau - Netherlands

11.45 The Use of Self Organizing Neural Network for Vibration Unbalance Assessment
by Mr. Dragutin Lisjak - Faculty of Mechanical Engineering and Naval Architecture - Croatia

12.15 Condition monitoring best practices in wind power generation
by Mr. Severino Marchetti - ISE - Industrial Service Engineering - Italy

12.45 10 Steps in Lubrication Reliability to achieve World Class Maintenance
by Mr. Toon Van Grunderbeeck - Lubretec bvba - Belgium

MAINTENANCE ASSESSMENT- Room: 5

11.15 Lessons Learned from Reliability and Maintenance Benchmarking - What does world class performance look like? by Mr. Al Poling - HSB Solomon Associates - USA

11.45 Maintenance audits based on qualitative and quantitative elements
by Mr. Diego Galar - Luleå University of Technology - Sweden

12.15 A test of the importance of supportability
by Mr. Chris Rijdsdijk - Hogeschool Zeeland - Netherlands

12.45 Fuzzy Access to Dependability Assessment
by Mr. Miloš Tanasijević - Faculty of Mining and Geology - Serbia

RELIABILITY ENGINEERING - Room: 6

11.15 Systemic assessment and analysis of factors affect the reliability of a wind turbine
by Mr. Botsaris Pantelis - Democritus University of Thrace - Greece

11.14 Proposed implementation of RCM method for maintenance of bogies of railway passenger wagons by Mr. Vladimír Stuchlý - University of Zilina - Slovakia

12.15 Failure Analysis and Risk Management - The Experience of a Brazilian Power Generation Company by Mr. Ali Kassem - Copel Geração e Transmissão S/A - Brazil

12.45 Inspection Based on Reliability: Defining the time of inspection periods based on reliability growth analysis by Mr. Eduardo Calixto - Petrobras - Brazil

13.15 - 14.15 Lunch - Exhibition Area

14.15 - 16.15 Parallel sessions / rooms: Amphitheater, 4, 5, 6

MAINTENANCE CONCEPTS - Room: Amphitheater

14.15 TnPM implementation in CNLC Iran Branch
by Mr. Yuxin Wang - Great Wall Drilling Corp. - China

14.15 The strategic importance of storage tank maintenance, a case
by Mr. Peter Desmaretz - Stork Technical Services - Belgium

15.15 Reengineering in Maintenance. Chances, challenges and methods to success
by Mr. Ioannis Manopoulos - Atlantis Engineering - Greece

15.45 An Effective and Efficient Model for the Selection of Maintenance Strategy
by Mr. Ashraf Labib - University of Portsmouth - United Kingdom

MAINTENANCE TECHNOLOGY - Room: 4

- 14.15 Best condition monitoring practices -real application on an Italian cement mill**
by Mr. Francesco Caropreso - Sitia Engineering A.r.l. - Italy
- 14.45 Grab-Ship unloader 05 (DN05) reliability report**
by Mr. Patrick Noé dos Santos Filgueira - VALE S/A - Brazil
- 15.15 The Development of Online Leak Sealing Technology and its Efficiency Exertion**
by Mr. Wendy Zhao - TXY-Tech Inc. - China
- 15.45 Proactive monitoring system for basic mining equipment at open pit mines of Electric Power Industry of Serbia** by Mr. Predrag Jovančić - Faculty of Mining and Geology - Serbia

MAINTENANCE ASSESSMENT - Room: 5

- 14.15 On the path from maintenance to asset management for CERN's cryogenic installations**
by Mr. Goran Perinić - CERN - Switzerland
- 14.45 Optimum maintenance using knowledge from a complete product population**
by Mr. Ulf Sandberg - University West - Sweden
- 15.15 Improving Reliability-based Maintenance Culture in the Printing Industry in Practice**
by Mr. Csaba Hotvath - Nyomda Technika Kft. - Hungary
- 15.45 Middelfart case - free energy savings**
by Mr. Hans Jorgen Knudsen - Middelfart Municipality - Denmark

RELIABILITY ENGINEERING - Room: 6

- 14.15 Bearing wear monitoring by ultrasound condition-based lubrication**
by Mr. Renato Trevisan - Braskem - Brazil
- 14.45 Lubrication Reliability Practices for Improved Equipment Reliability**
by Mr. Ian Knight - Enluse BV - Netherlands
- 15.15 Making a maintenance plan by using mathematical model and Gams**
by Mr. Ozgur Kakmaci - ETİ GRUP OF COMPANIES - Turkey
- 15.45 Best Practice in shutdown Planning and Scheduling**
by Mr. Gert Mueller - T.A. Cook Consultants - Germany

18.00 - 19.30 CONGRESS EVENT - Behind the scene of aircraft maintenance

Exciting debate about the strategies, techniques and best practice within Aircraft Maintenance

Congress event will welcome distinguished guests with purpose to share experience, unique solutions and recommendations from Aircraft Maintenance:

Dr Jezdimir Knežević, MIRCE Academy, Exeter, UK - Debate moderator

Mr Craig Keen, Director of Operability Airbus

Mr Andy Johnson, Head of Line Maintenance at Flybe

Mr Srđan Mišković, Director of JAT Tehnika

Mr Nikola Stankov, General manager of SMATSA

- 5 Best Congress Papers Awards Ceremony** by Mr. Arjo Klijn, Salvetti Foundation, rewarding the best works in the following categories:
Asset Management; Maintenance Management, Maintenance Technologies;
Maintenance Assessment and Safety, Health & Environment

Handover Ceremony to the next Euromaintenance Host City - Belgrade hands over to Helsinki

Presentation of the next EuroMaintenance 2014 Congress - Helsinki, Finland, 2014

19.30 - 22.00 Congress Dinner - Exhibition Area

Workshop 1

EFNMS Benchmarking workshop

The EFNMS benchmarking workshop for maintenance will provide training and practice in the calculation and understanding of the indicators for measuring maintenance, cost, reliability and availability performance.

The challenge in benchmarking for maintenance is to clearly define what is included in the different components of the KPI's. That is why the maintenance workshop will be based on the harmonized indicators from the standard EN 15341 "Maintenance Key Performance Indicators", and the metrics from the SMRP Best Practices Committee. By using this predefined indicators and metrics you will easily be able to do benchmarking and comparative analysis with other companies inside our outside the corporation.

At the workshop, you will have the opportunity to calculate a number of key figures for maintenance cost, maintenance man hours and availability performance. The calculations will be made on case-study companies or you will be invited to bring your company's data for maintenance and availability performance and calculate the values at the workshop.

Workshop objectives:

- To increase the understanding of benchmarking for maintenance
- To learn the definitions and the use of the harmonized maintenance indicators
- To disseminate knowledge and share best practices in maintenance

What is in it for me?

The key learning points:

- Maintenance terminology and definitions
- Use of the standardized indicators/metrics to measure maintenance cost performance, maintenance man hours and availability performance
- Interpretation of the performance measured by each indicator for maintenance cost performance and team discussions to increase the understanding of the key performance behind the indicators in maintenance - economic, technical, organizational



Workshop Facilitator:

Mr. Tom Svantesson,

TSMC Production and Maintenance Consultants and member of the European Maintenance Assessment Committee

Target public:

Maintenance managers, Asset managers, Plant managers, Operations managers, Production managers, Reliability engineers, Technical managers, General managers, any other personnel who are involved with benchmarking, or have taken the first steps in the benchmarking processes.

EFNMS Workshop on Health, Safety and Environment

The EFNMS Health, Safety and Environment workshop will provide training and practice in the evaluation and understanding of the value of having good policy and culture in Health, Safety and Environment (HSE) both on the short lane and the long one.

HSE are today so important concepts in the enterprises, that it is on the agenda at all levels. A lot of the enterprises in this area meet the biggest challenges for still having the licenses to operate in the future. Therefore when the enterprises talk about Corporate Social Responsibility (CSR), it is very often HSE they have to work with for living up to the requirement from different authorities.

No matter where the motivation is coming from, inside or outside the enterprise, there are a lot of key performance indicators there prove, that we should have the biggest possible attention on HSE. The European Agency for Safety and Health at Work (EU-OSHA) and European Federation of National Maintenance Societies (EFNMS) have made a lot of work with indicators and cases about HSE, and one of the indicators tells us, that between 15 and 20 % of all work related accidents in Europe come from the maintenance work, (among which 10 to 15% are fatal). Many national cases tell the same story (even more: as an example, 44% of fatal accident recorded in France for the year 2002!), that it is very important for having good indicators in HSE, that you do your maintenance in the right way first and every time. Moreover, defective maintenance practices lead sometimes to huge disasters (e.g. Piper Alpha platform, Bhopal plant, Texas City oil refinery, etc...).

When we work with HSE we will recognize, that we will never be good enough, but we have to work with continues improvement. Therefore EU-OSHA and EFNMS, for the next two years, will have focus on cooperation between employers, workers and State bodies for better prevention under the campaign headline "Working together to risk prevention".

At the workshop you will have the opportunity to learn about others experiences and different "tools" which you can use in your own company in continues working for a better HSE.

Workshop objectives:

- To increase the understanding of Health, Safety and Environment
- To learn how one can work with continues improvement of HSE
- To disseminate knowledge and share best practices.

What is in it for me?

The key learning points:

- The indicators and experience for good Health, Safety and Environment
- The method for working with improvement of Health, Safety and Environment
- The network with people who are working with Health, Safety and Environment
- A practical example from a Danish refinery



Workshop Facilitators:

Mr. Gerard Neyret,

Chairman of the European Health, Safety and Environment Committee

with **Mr. Svend Aage West**, Senior Consultant at Vesko and member of the European Health, Safety and Environment Committee and

Mr. John Middelboe, Senior Consultant

Target public:

HSE managers, Maintenance managers, Asset managers, Plant managers, Operations managers, Production managers, Reliability engineers, Technical managers, General managers, and any other personnel involved with HSE.

Workshop 3

Day three May 16th

EFNMS Physical Asset Management workshop

The EFNMS Physical Asset Management workshop will provide lessons learned from the asset management survey carried out by the EFNMS Asset Management Committee (EAMC). It also offers participants an opportunity to participate in the new round of the survey.

The workshop will also offer the best practices and lessons learned from practical asset managers. The workshop covers following topics:

1. introduction to Physical Asset Management, and activities and organizations which can be found in the field of Asset Management,
2. the results of EFNMS Asset Management survey from the year 2011 and 2012,
3. conclusions how these results affect the asset managers within the process industry,
4. what the road to be a world class asset manager requires,
5. what are the lessons learned from the perspective of practical asset managers,
6. how well do I know my organization: getting acquainted with the survey questions

The workshop will have an interactive character. Presentations will challenge audience with questions and feedback will be given based on group discussions.

Workshop objectives:

- To improve understanding of Physical Asset Management
- To learn from each other
- To disseminate knowledge and share the best practices

What is in it for me?

The key learning points:

- what is Physical Asset Management
- where from we can find the terminology, relevant definitions and requirements for effective Physical Asset Management system
- best practices from the perspective of experienced asset managers
- which road I should follow to become a world class level asset manager



Workshop Facilitator:

Mr. Kari Komonen,

Chairman of EFNMS asset management committee and
Board member of Finnish Maintenance Society-Promaint

Target public:

Maintenance managers, Asset managers, Plant managers, Operations managers, Production managers, Reliability engineers, Technical managers, General managers and any other person who is involved in Physical Asset Management, or have taken the first steps in the area of Physical Asset Management.

Day three May 16th

Workshop 4

Risk assessment management with maintenance plan development

The risk assessment management workshop will provide training and practice in the evaluation and understanding of the indicators for measuring risk, maintenance, cost, reliability and availability performance.

It is a well - known fact that the existing maintenance management methods have the purpose of providing the desired reliability and availability of a system, at minimum cost. New maintenance concepts, which are increasingly applied in all areas of life, are based on risk, a complex category which immediately connects the likelihood of undesirable event occurrence with its consequences. In that respect, new risk-based maintenance methods are being developed, which, for the area of preventive maintenance according to the current state, represent a very important if not vital support to the existing maintenance methods.

Therefore, it is important to note that in these methods, the cost is not the only aspect to be observed as failure effect, i.e. the effect of an undesirable event, but all the other aspects such as safety, impact on health and the environment etc. Among other things, this maintenance workshop is based on European document CWA 15740:2008 – “Procedures of control and maintenance based on risk”.

At the conference workshop, you will have the opportunity to calculate a number of key figures for risk analysis, maintenance cost and availability performance. The calculations will be made on case-study companies or you will be invited to bring your company's data for maintenance and availability performance and calculate the values at the workshop.

Workshop objectives:

- To increase the understanding of risk assessment and overall concept of risk
- To learn the definitions and the use of the main risk indicators
- To disseminate knowledge and share best practices in maintenance...

What is in it for me?

The key learning points:

- Risk management terminology and definitions
- Use of the standardized indicators/metrics to measure parameters of risk, maintenance and availability performance
- Development of a model of critical failure risk assessment, by implementing the concept of risk into maintenance management...



Workshop Facilitator:

dr Vladimir Popović,

Assistant professor, University of Belgrade, Faculty of Mechanical Engineering, Risk Expert (DOTS), Risk Examiners – Equipment Track (Certificate Nr. 16580 – 3/4/2010, Steinbeis University Berlin)

Target public:

Reliability Engineers, Technical Engineers, Maintenance managers, Asset managers, Plant managers, Production managers, any other personnel who are involved with risk analysis, or have taken the first steps in the risk assessment processes.

Companion programme

Congress Tour A

OLD BELGRADE, walking tour, 14.05.2012.

Price per person: 40 € + VAT



This tour will take us along the paths of old Belgrade. After visiting the fortress we will head towards the heart of Belgrade, where we will learn about its history, as well be able to see The House of Parliament, The National Theatre, The National Museum, The Serbian Orthodox Cathedral, The Princess Ljubica Museum.

Congress Tour B

BELGRADE FROM THE RIVERS, 15.05.2012.

Price per person: 50 € + VAT



We will take a cruise along the Danube and the Sava river along New Belgrade, Zemun and The Belgrade Fortress. You will have the unique opportunity to enjoy in the lovely scenery of The War Island, statue of Victor and Belgrade's bridges.

Congress Tour C

NIKOLA TESLA MUSEUM, 15.05.2012.

Price per person: 30 € + VAT



We will take a peek into Tesla's world and be able to enjoy stories about his inventions as well as his exceptional personality. Not only will we be able to hear about his work, but also try to do some of the most interesting experiments. Find out why Tesla was a man ahead of his time and quite possibly ahead of our time as well!

Congress Tour D

THE ROYAL COMPLEX - BELGRADE, 16.05.2012.

Price per person: 60 € + VAT



This tour will take us into the inner chambers of the Royal Palace, and the White Palace of Belgrade that were built in the first half of the 20th century. Here we will hear about life of the royal family, about the history, and also see many of world known artworks.

Accommodation

Special Congress accommodation rates have been negotiated for the EuroMaintenance congress.

For the listed hotels you can find reservation forms under special Congress rates at the official website www.euromaintenance.org. The Congress organisers accept no responsibility if the hotel offers cheaper rates compared to the rates advertised. Hotels may offer "special rates" at their discretion.

IN HOTEL Belgrade - www.inhotel-belgrade.rs

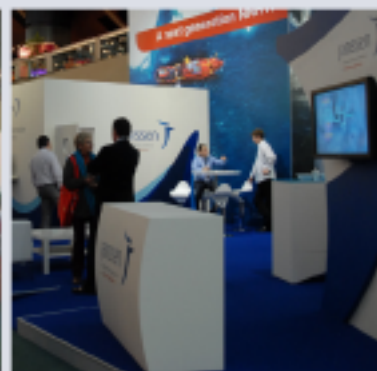
Holiday Inn Hotel Belgrade - www.holidayinn.com

Continental Hotel Belgrade - www.continentalhotelbeograd.com

Hotel Zlatnik Belgrade - www.hotelzlatnik.com

Exhibition

The Exhibition will be held in Sava Center - Belgrade Congress Venue on May 14th and 15th 2012 in conjunction with the Conference on Maintenance and Asset management. All lunches, morning and afternoon refreshment breaks will be held in the Exhibition area, making it a true meeting point for delegates and exceptional opportunity for networking.



Your participation in the Congress would be a great honor for organization of this important event that will bring more technology, more inspiration and more interaction to all.

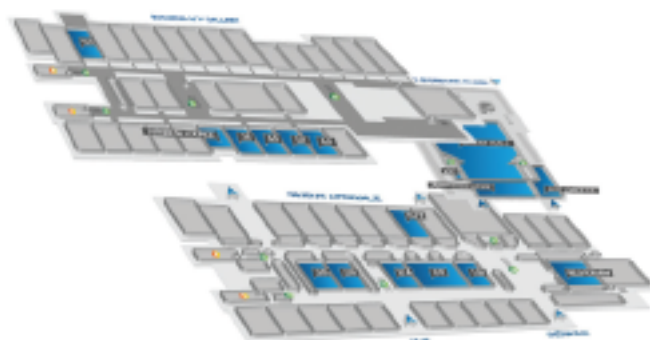
To obtain further details on securing your exhibition space at EuroMaintenance 2012 please contact

Ms. Mirjana Solunac

t: +381 11 6300750,

e: msolunac@iipp.rs

w: www.euromaintenance.org



Sava Center is the largest congress, cultural and business center in Serbia, and one of the largest in Europe, whose main role is to organize congresses, exhibitions and art conventions.

Congress Venue Sava Center



Participation

Full three day registration fee is 1190 EUR (VAT 18% is not included)

Fees for Maintenance Congress delegates include:

Conference material

Opening /Closing session and Welcome reception

Full and free access to the Exhibition

Participation in scientific sessions

Coffee and lunch during the breaks

Gala dinner on the second day

Participation at the workshop of Delegates choice

Early registration benefits

For the registrations made before March 31st a 10% discount is approved and full three day registration fee is 1071 EUR (VAT 18% is not included)

Multiple registration benefits

For registration of 3 or more people from the same company, participation for one additional maintenance congress delegate will be allowed. Other expenses (accommodation, transport costs, etc) are the participants' responsibility.

Registration on-line

Participants are required to register on-line via official EuroMaintenance 2012 website www.euromaintenance.org

Conference Coordination

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Serbian Maintenance Society DOTS

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Email: nstanojevic@iipp.rs

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