



EUROMAINTENANCE 2006

WORLD CONGRESS ON MAINTENANCE

18th European Maintenance Congress and
3rd World Congress on Maintenance

«Sharing Knowledge and Success

for the Future»

20–22 June 2006

Congress Center Basel, Switzerland



SKF

SKF Reliability
Systems



MIBAG
Property • Facility Management

10th Maintenance & Facility
Management Exhibition

www.ewc06.ch



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10th Maintenance and Facility Management Exhibition

«Showcase of Leading Edge Products and Services in Maintenance and Facility Management»

Concurrently to the Euromaintenance Congress and World Congress on Maintenance a specialized exhibition will showcase leading edge technology, products and services on 2000 m². Exhibiting companies from all continents will be joined by leading National Associations as well as a number of Universities. In addition a concise poster exhibition will be on display.

All conference attendees will have access to the exhibition – Coffee and Lunch for all conference delegates will be served in the exhibition area. Additional visitors will be able to attend for a small entrance fee.

For further details please contact Mrs. Catherine Koulekpató at catherine.koulekpató@congress.ch or consult the conference's webpage at www.ewc06.ch.

Supporting National Maintenance and Facility Management Societies

MFA (Austria), BEMAS* (Belgium), ABRAMAN (Brazil), Chinese Plant Maintenance Society (China), HDO* (Croatia), CSPÚ* (Czech Republic), DDV* (Denmark), Kunnossapito* (Finland), AFIM* (France), GFIN* (Germany), MEETA* (Ireland), AIMAN* (Italy), AMDM (Marocco), NVDO* (Netherlands), NFPV* (Norway), COPIMAN (Pan American Committee), PNTTE* (Poland), APMI* (Portugal), SSU* (Slovakia), Dots* (Serbia and Montenegro), DVS* (Slovenia), SAMA (South Africa), aem* (Spain), UTEK* (Sweden), MFS* (Switzerland), IAM* (United Kingdom), SMRP (USA)

* Members of the European Federation of National Maintenance Societies (EFNMSvzw)

«Sharing Knowledge and Success for the Future»



A Tradition of Progress

EuroMaintenance is nothing new to EFNMS. For over 30 years it has been one of our lifeblood. EFNMS has built an unique European network on it – providing industry throughout Europe with innovative platforms. We can certainly be proud of our network, and we should continue to build on it which has given EFNMS its actual position of leadership. But while the past can provide inspiration and sense of direction, it cannot provide a detailed road map. There is no super highway to future success.

The challenge for us is to ensure that we remain innovators, continually seeking new ways, fresh ideas, better marketing concepts and improvements throughout all our activities.

Taking the initiative

In 2002 ABRAMAN inaugurated the First World Congress on Maintenance in Bahia (Brazil). This event took place twice in Brazil. To be effective, networking must be accompanied by efficiency and commitment. It means being prepared to take initiative to improve our networks, to explore new opportunities of positioning maintenance world-wide.

First results for new partnership are extremely encouraging: EuroMaintenance 2006 and the 3rd World Congress on Maintenance run together – a global network is born!

«Sharing Knowledge and Success for the Future»

This event represents the whole spectrum of the world market for Maintenance, Facility and Asset Management – a meeting place for managers, decision makers, professors and experts from every continent and the biggest forum for an international exchange of knowledge.

10th Maintenance and Facility Management Exhibition

Unique applications and services are shown in a 2000 m² area highlighting the global state-of-the-art. Special areas are dedicated to national associations, national activities and universities. In addition, an incomparable poster show is displayed at this world's most global showcase.

Acknowledgement

This event is a result of a highly-successful cooperative effort throughout the world of Maintenance and Facility Management. The Congress Organizing Committee warmly thanks all experts, sponsors, and maintenance societies for their contribution.

Guido Walt

President MFS/EFNMS

18th EUROMAINTENANCE 2006

3rd WORLD CONGRESS on MAINTENANCE 2006

10th Maintenance & Facility Management Exhibition



Salute



Maintenance – an advancing discipline

In today's high-tech marketplaces, traditional manufacturing is under severe pressure. They are expected to measure up to modern standards of productivity, quality and safety.

Inevitable trends are taking place: Quality Management, Maintenance Management, Facility Management and Asset Management are taking over from conventional, empiric approaches. The key to maximize both productivity and benefits is to meet new management concepts which are presented and discussed during this very international 3-day event.

I have great pleasure of welcoming you.

One of the recipes for success is to have the courage to adopt visionary goals and the tenacity to achieve them together. Let us set ambitious goals and improve our professional network. It is worth to come to Basel.

Dr. Eric Scheidegger

Ambassador
Head of Economic Promotion Activities
State Secretariat for Economic Affairs (seco)

The Congress Organizing Committee

Joe Amadi-Echendu	SAMA (ZA)	Peter Jäggi	BKW FMB Energie AG (CH)
Li Baowen	Chinese Plant Maintenance Society (CN)	Jerry Kahn	SMRP (US)
Mirta Baranovic	EFNMS (HR)	Davor Kristovic	München (DE)
Otmar Baumann	ABB Schweiz AG (CH)	Franz Kyburz	SKF (CH)
Peter Bell	SERONO (CH)	Leonhard Loew	Kongresszentrum Basel (CH)
Daniel Bucher	BELFOR (CH)	Gérard Neyret	AFIM (FR)
Reto Cajacob	MIBAG (CH)	S. Noczynski	GFIN (DE)
Nello Comelli	AFIM (FR)	Hans Overgaard	EFNMS (DK)
Mehdi Daoudi	AMDM (MA)	Per Schjolberg	NFV (NO)
Pedro Rodrigues Darnes	AEM (ES)	Santiago Sotuyo	COPIMAN (Pan American Committee)
Toni Eiser	MFA (AT)	Harald Speck	GFIN (DE)
Joubert Fortes Flores Filho	ABRAMAN (BR)	Janez Tomazin	DVS (SI)
Joe Gorsatt	SKF (CH)	Guido Walt	MFS (CH)
Peter E. Häfliger	SWISSFM (CH)	H.-Joachim Behrend	TPA (CH)

EFNMS / ABRAMAN

EFNMSvzw – European Federation of National Maintenance Societies, vzw



This association is formed by 20 European countries as a head organization with the purpose to improve maintenance for the sake and benefit for the people in Europe, since maintenance is of great importance to trade and industry, to the environment and to public welfare and safety.

Within EFNMSvzw there are several working groups for creating a common standard for education, vocational training, certification, terminology, benchmarking etc. These groups meet several times per year and finish their work with a report. Often the different groups join other working groups in Europe for example CEN.

EFNMSvzw is also the basis for a huge network with the national societies and their members, and facilitate organizations which are

developing projects within the EU-system. EFNMSvzw can as a legal entity participate and this association can also communicate proposals to the members.

Another way to communicate the knowledge of maintenance to a great audience is the bi-annual EUROMAINTENANCE CONGRESS. This year the 18th EURO-MAINTENANCE 2006 takes place in Basel in cooperation with the 3rd World Congress on Maintenance.

A great event for maintenance people all over the world.



*Hans Overgaard
Chairman EFNMSvzw*

Members of the Board of EFNMS Directors



Mirta Baranovic (HR)



Richard Bryarlie Dear (FR)



Juraj Grecik (SK)



Dick Huybens (NL)



*Pedro Rodrigues
Darnes (ES)*



Janez Tomazin (SI)



*Wim Vancauwen-
berghe (BE)*



*Guido Walt (CH)
Honoray President
(Observer)*

ABRAMAN

Six years ago, Abramam rushed to the challenge of accomplishing an event with international inclusion and as member of the Iberian-American Federation of Maintenance, counted on the support of other partners from Maintenance associations that motivated the continuation of this project. Thus, Abramam organized in the city of Salvador, in the year of 2002, the 1st World Congress on Maintenance that counted with the 1050 participants and in 2004, Abramam had the opportunity to promote the 2nd World Congress on Maintenance, this time in Curitiba, with 1100 people. The event counted, still, with the sponsorship and presence of many companies representing important sectors of the international economy, electric power, petroleum, metallurgy and



mining among others. Based on the excellence level reached by the Maintenance nowadays, its active participation within companies as a factor of differentiation and competitiveness, I would like to invite you to participate in this great international encounter of the International Maintenance Community in Basel, Switzerland.



*Joubert Flores
President ABRAMAN*



Sponsors

BKW FMB Energy Ltd (BKW)...

... has been in business for over one hundred years. With energy sales of 34 Terawatt-hours and a workforce of approximately 2000 employees in German and French-speaking Switzerland, it is one of the major Swiss companies integrated in the European grid. Since its foundation BKW FMB Energy Ltd. has been involving as an active energy trader on international energy exchanges and as a successful seller on the European energy market. Now it is leveraging this know-how, as the deregulation of energy markets creates a new dimension of energy as a product. Under the new conditions, what was formerly traded between the leading electricity companies is becoming a sought-after market commodity. The BKW's forward-looking core competencies in the European energy wholesale sector also assures the necessary entrepreneurial flexibility for BKW to offer customers products and services.



BKW FMB Energy Ltd.

BKW FMB Energy Ltd.

Viktoriaplatz 2

CH-3000 Bern 25

www.bkw-fmb.ch

MCE Industrietechnik...

... a subsidiary company of MCE AG in Linz, Austria – considers itself as life-cycle partner for the erection and servicing of industrial plants and focuses its activities on the oil and gas sector, chemicals and petrochemicals, fine chemicals and pharmaceuticals, metallurgy, paper and pulp, power generation and distribution, and hydropower. MCE Industrietechnik erects turnkey plants and plant units for industry and infrastructures and is completely independent from manufacturers in its choice of components and thus very flexible in meeting its customers' demands. The services offered – from design and commissioning – also include the full range of maintenance services.



MCE Industrietechnik Linz GmbH & Co

Lunzerstrasse 64

A-4031 Linz

www.mce-ag.com

Rheinhold & Mahla AG...

... headquartered in Munich, is among the leading providers of Industrial Services in Europe. The company was founded in 1887 and is now part of the Bilfinger Berger Group. With over 11000 employees worldwide and a total annual revenues of roughly EUR 1 billion, Rheinhold & Mahla offers a broad spectrum of construction and maintenance activities for industrial plants within its Industrial Services Divisions for Western, Central and Eastern Europe. In the Technologies Division, the company has special skills and solutions for the shipbuilding industry and offers comprehensive services for technical noise control.

The right services form the basis for long-term mutual respect.

Much has changed in the course of the years. Yet, the most successful links connecting the supplier and the customers have remained the same throughout. Traditionally the basis of success, they include such values as trust, acknowledgement, a sense of partnership based on competence, economic efficiency, precision, quality, ideas, reliability, openness and the ability to evolve.



Rheinhold & Mahla

Rheinhold & Mahla AG

Gneisenastrasse 15

D-80992 München

www.rheinhold-mahla.com

SWISSFM Ltd. ...

... **the home of the SWISSFM Tool.** Companies or institutions that possess, manage or operate an important number of objects (buildings and their technical equipment), for instance laboratories, office buildings, or factories, in the pharmaceutical, biotechnological, chemical, health, and tourism sectors are natural potential users of the SWISSFM Tool.

SWISSFM Tool is a complete solution for Facility Management and Enterprise Resource Planning that will help you to optimise the utilisation of energy, maintenance, space & surfaces, and drastically improve your key management as well as your inventory. SWISSFM Tool Mobile/Outdoor provides a range of applications for mobile data collection – exactly what you need to build up a state-of-the-art maintenance service. You will optimise the value and the lifetime of your assets while providing a responsive service to your occupiers. The Tool enables and instantly publishes all kind of information, pictures, drawings and news stories wherever you are. Users can request information, obtain reports and see what jobs are scheduled for their object/ area. Providers can see their jobs and sign them off remotely once they are completed.

SWISSFM Tool enables you to rely on complete and up-to-date information when taking decisions, thus helping you to get the best of object management.

SWISSFM Ltd. also provides a comprehensive Lifecycle Consulting service.



SWISS FM Ltd.

Postbox 160

CH-4016 Basel

www.swissfm.ch



Monday, 19th June 2006

Opening

of the Registration Desk at

Congress Center Basel
MCH Messe Schweiz (Basel) AG
Messeplatz 21
CH-4021 Basel



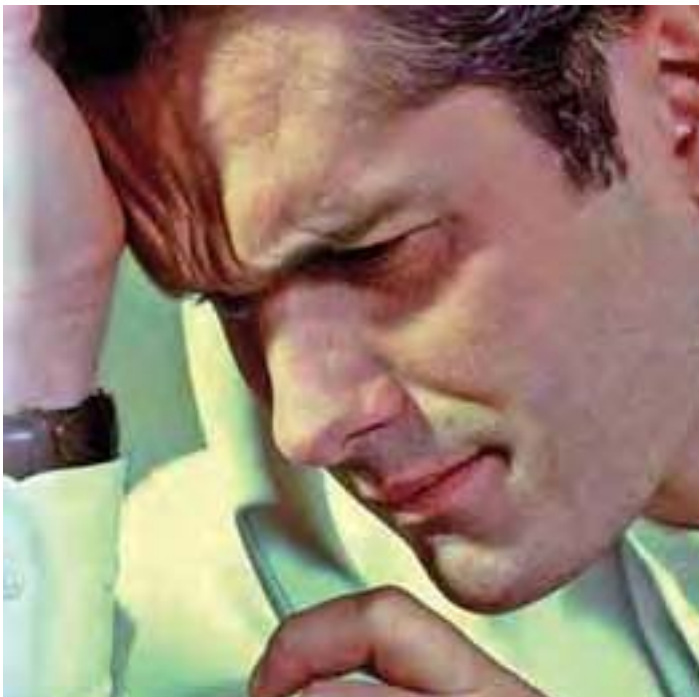
16.00

Opening Ceremony

- Welcome and opening of **EUROMAINTENANCE** and **WORLD CONGRESS on MAINTENANCE**
- Dr. Eric Scheidegger (Switzerland): "Maintenance – an advancing discipline"
- Welcome the participants
- Bestowal **SALVETTI AWARD**
- Apéro in the exhibition area

18.00

Euromaintenance Incentive Award, formerly "Salvetti Award"



The "EuroMaintenance Incentive Award", formerly "Salvetti Award", is presented to a maintenance professional who has delivered a major contribution to the "art & science" of industrial maintenance. The award is sponsored by the "Salvetti Foundation e.V.", a non profit association created under German law.

The basic idea behind Salvetti Foundation is that simply producing goods will not suffice to survive in the present competitive environment. Research and development shall be promoted, resulting in innovation. Maintenance shall keep up with these developments.

The Jury for the Euromaintenance Incentive Award:

- EFNMSvzw Chairman
- General Secretary of Salvetti Foundation, also acting as secretary for the Jury
- A member nominated by the EFNMSvzw Board of Directors from an EFNMSvzw member not having nominated a candidate for the Award.
- Salvetti Foundation President as the chairman of the Jury.

For more information: www.salvettifoundation.org



Tuesday, 20th June 2006

08.15–08.50

Plenary Lecture



«Beyond Borders – World Economy»

Joao Ricciarelli (United Kingdom)

09.00–10.00

Global Issues

Sustainability



The sustainability of product-life extension

Walter Stahel (Switzerland)



Building maintenance: Technological culture for sustainable development

Michele Di Sivo (Italy)



Urban maintenance: A strategy for sustainability

Daniela Ladiana (Italy)

Management & Technology

Management / Competence



e-Famemain:

A new kind of web based benchmarking tool

Kari Komonen (Finland)



What are Peruvian industries doing to achieve maintenance excellence?

Real case

Jaime Collantes (Peru)



TnPM – Chinese way

The notes of equipment management in Guangzhou

Liu Jingyu (China)

10.00

Coffee Break in the Exhibition Area

10.30–12.10

Global Issues

Sustainability



Bridging the communication gap between operation and maintenance

Gérard Neyret (France)



Maintenance & Facility Management of real estate and urban patrimonies: Italian Exemples

Silvano Curcio (Italy)



The “fifth discipline” in a C.M.M.S. implementation and usage: a case study in a petrochemical plant

Marcelo Arese (Brazil)



Maintenance of equipment in hazardous explosive atmosphere

Slavko Rumbak (Hungary)



Training program for road transport companies – operators of commercial vehicles oriented on fuel economy and environment protection

Zdzislaw Chlopek (Poland)

Management & Technology

Management / Competence

Management of major multi-plant turnarounds in a petroleum refinery

Ivan Antunes (Brazil)



Asset performance scorecard: A roadmap to excellence

Ricardo Conde Caverro (Spain)

Increase production by utilising opportunities for maintenance requiring shutdown

Trond M. Andersen (Norway)



Appl. of RCM type maintenance methodology within ESKOM distribution. An African electricity utility

Peter Busch (South Africa)



Systems Medicine: An innovativ, holistic and strategic approach to the maintenance management centered in business sustainability

Rogério Arcuri-Filho (Brazil)

12.10

Lunch in the Exhibition Area



Tuesday, 20th June 2006

Plenary Lecture 08.15–08.50

Management & Technology

Life Cycle Management

Efficient use of process and diagnostic data for lifecycle management
Maciej Wnek (Poland)



Inspection and maintenance of distribution and reticulation lines (<33kV)
Adriaan Jacobus Kraftt (South Africa)

Maintenance and life extension of wooden transmission
Barry Hill (South Africa)

Management & Technology

Business Excellence



Process based mapping of maintenance maturity
Wayne Grant Reed (Cyprus / USA)



Maintenance change management at DSM nutritional products
Jos Groffils (DE / BE / CH)

Asset management co-operation the key to achieving business excellence
John Coleman (Ireland)

09.00–10.00

Coffee Break in the Exhibition Area 10.00

Management & Technology

Life Cycle Management



Information management for maintenance reengineering
Bernardo Tormos (Spain)



Application of the reliability block diagram method for the examination and determination of railway rolling stock
József Csiba (Hungary)



Contribution to development of new failure analysis methods
Vladimir Popovic (Serbia and Montenegro)

The fleet management – knowledge and life cycle cost in practice
Andrea Bottazzi (Italy)



A new technology for condition monitoring and diagnosis of electric motor based systems
Ahmet Duyar (Turkey)

Management & Technology

Business Excellence

Standardizing and aligning the maintenance processes in the Volvo cars prod. sites throughout Europe
Peter Decaigny (Belgium)



Operational excellence in maintenance
Alex Stuber (Switzerland)



Setting personal objectives to achieve excellence in maintenance / manufacturing
Daniel Vandendaul (Belgium)



The way forward to excellence in maintenance
Norbert Spoerk (Austria)



Project success and project excellence
Lajos Szabó (Hungary)

10.30–12.10

Lunch in the Exhibition Area 12.10



Tuesday, 20th June 2006

14.00–15.20

Global Issues

Training / Qualification



Maintenance technician development at the institute of technology Tallaght. A model for future development of formal in-house education
Robbie O'Connor (Ireland)



Building and urban maintenance and management in Italian academic education: the post-graduate course in the "Federico II" university of Naples
Gabriella Caterina (Italy)

Education of maintenance professionals – experiences and trends in Slovakia
Vladimir Stuchly (Slovakia)



The CICPND certification system of maintenance professionals
Andrea Maciga (Italy)



A new approach of the higher education in maintenance : the ACAM project
Olivier Sénéchal (France)

Management & Technology

Management / Competence

Facility management for public real estate: the school buildings of the province of Naples
Maria Rita Pinto (Italy)



Strategic asset management
Jan Franlund (Sweden)



Maximizing value from assets and operations
Elaine Heierhoff (Germany)



Mission, vision and strategies as a guideline for the maintenance department
Christer Pandell (Danmark)

Executing procedure-based maintenance
Drew D. Troyer (USA)

15.20

Coffee Break in the Exhibition Area

15.50–16.50

Roundtable I

Facility Management



Moderation:
Silvano Curcio (Italy)

MAINTAIN – International Trade Fair for Maintenance



MAINTAIN is being held at the M,O,C, Event Center in Munich for the second time from October 17–19, 2006. Once again the International Trade Fair for Industrial Maintenance will inform decision-makers and experts from all sectors of the manufacturing and processing industry about modern solutions for the repair, maintenance and inspection of plants and machinery.

MAINTAIN celebrated its successful premiere at the M,O,C, Event Center in October 2005: 4147 trade visitors came to gather information about the products and services of 163 exhibitors from the industrial maintenance sector in six countries, i.e. Austria, Denmark, Germany, Great Britain, Sweden and Switzerland. More than eleven percent of the visitors were from countries other than Germany. Austria, the Czech Republic, Switzerland, Hungary and Poland were particularly well represented.

Tuesday, 20th June 2006

Management & Technology

Life Cycle Management



Structured asset management
Bernhard O. Herzog (Switzerland)



Root cause analysis : a powerful tool for continuous improvement
Paul Rodriguez Jordan (Argentina)



Preventive maintenance between value and risk
Ana Herman Chaka (Croatia)



Paper production line – possibilities to improve productivity by utilizing online monitoring (Practical cases)
Hannu Rautiainen (Finland)

Proportional hazard models (PHM) in the analysis of production data
Jorge Miguel Peralta Siopa (Portugal)

Workshop I

14.00–15.20

Problem solving & Root Cause Analysis at Georgia Pacific Corporation



Moderation:
George Munn (USA)



Moderation:
Torbjan Idhammar (USA)

Workshop II

Industrial Maintenance

Moderation:
Mr. Stübiger (Germany)

Coffee Break in the Exhibition Area

15.20

Roundtable II

15.50–16.50

Benchmarking



Moderation:
Tom Svantesson (Danmark)

MAINTAIN – Profit from maintenance as a factor of success



Maintenance is a critical factor in a company's ability to compete. It increases the availability of plants and machinery, improves production processes and ensures resource-management efficiency. That makes it a relevant value-added factor in manufacturing and processing industries.

A development that MAINTAIN 2006 takes into account

As the only international trade fair for industrial maintenance, MAINTAIN takes a neutral look at the latest trends and informs visitors about state-of-the-art solutions for inspecting, repairing, maintaining and improving their production facilities. That makes it the most important business gathering for maintenance decision-makers and experts.

Additional information: www.maintain-europe.com



Wednesday, 21st June 2006

08.15–08.50

Plenary Lecture



New paradigms for physical asset management

Joe Amadi-Echendu (South Africa)

09.00–10.00

Global Issues

Sustainability

Remanufacturing engineering and life cycle theory

Xu Bin-shi (China)



Biodegradable lubricant maintenance, degradation control for a sustainable lifetime

Arrate Marcaide (Spain)



Leak detection on compressed air systems, an environmental and economical challenge

Jan Verhofstadt (Belgium)

Management & Technology

Trends



Smart integrated OMS, operational networks and collaborative partnerships: Management of offshore assets

Hans Petter Ellingsen (Norway)

24/7 Online real-time performance diagnostic and prognostic technologies and intelligent watchdog agents for physical assets in North Sea

John March (Norway)

PC hard drive failure analysis

Padraig Madden (Ireland)

10.00

Coffee Break in the Exhibition Area

10.30–12.10

Global Issues

People / Infrastructure

Integrated facilities management

Alexander Redlein (Austria)



Links between the forecasted condition of highway bridges and maintenance expenditure

Steven Dennis (United Kingdom)

Experience from preventive maintenance can be used to increase the human efficiency

Janke Wikholm (Sweden)

Establishing an ISO certified asset management process

Ramesh Gulati (USA)



Lean thinking paradigma, roles and responsibility in integrated operations

Franco Santini (Italy)

Management & Technology

Partnership / Networking

Value based management – OEE as the key performance indicator

Arve Olav Nordskog (Norway)

A performance based maintenance contract approach

Paolo Cerqueira (Brazil)



Sustainable cost decreasing with high equipment availability (Experience report)

Michael Müller (Austria)

Trends in product support and service strategies

Rajesh Kumar (Norway)



Maintenance integrated system: the right recipe of TPM and RCM

Graziano Perotti (Italy)

12.10

Lunch in the Exhibition Area



Rheinhold & Mahla



Wednesday, 21st June 2006

Plenary Lecture 08.15–08.50

Management & Technology

Business Excellence



Benefits of deployment of standard SLAs, KPIs and tools across multi-national and multi-site based FM customers – case study

Charles Thorndyke (Switzerland)



Benchmarking in Europe
Tom Svantesson (Denmark)



Maintenance on the palm of the hand
Robison Tirre Ribeiro (Brazil)

Management & Technology

Advanced Technology / R+D



A new maintenance strategy model for static equipment using for inspection and risk management

Krige Visser (South Africa)



Modeling and analysis of causes and consequences of failures
Seppo Virtanen (Finland)



Computer based simulation of maintenance processes
Thomas Strigl (Austria)

09.00–10.00

Coffee Break in the Exhibition Area 10.00

Management & Technology

Life Cycle Management



Reliability driven process: a framework for reliability principles during the LC of assets

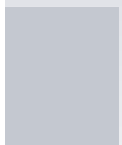
Faisa Saez (United Arab Emirates)



Risk based maintenance of hydropower plants
Henrik Kortner (Norway)



Lifetime prediction by application of Bayesian methods
Anna Gabrielsson (Sweden)



On the consideration of reliability in the life cycle cost analyses
Carlos Parra (Venezuela)



Coating replacement of spirals on 84" classifier
Claudio Oliveira (Brazil)

Management & Technology

Advanced Technology / EAM



Most powerful front end solution for SAP PM to optimize resource planning, short track work order management and others

Bernhard Nopper (Germany)



SAP PM utilisation for achieving business goals
Randeep Agarwal (Australia)



The EAM system for China enterprise
Bingqiang Feng (China)



Integration of automation and maintenance systems
Bernhard Huch (Austria)



The reliability engineers toolkit for optimizing maintenance
David Thompson (United Kingdom)

10.30–12.10

Lunch in the Exhibition Area 12.10



Wednesday, 21st June 2006

14.00–15.20

Global Issues

Hazard / Human Factors



Development of maintenance strategies for a nuclear power plant
Kari Laakso (Finland)



Maintenance strategy as a basic tool for major hazard prevention
Hana Pacaiova (Slovakia)



Methods and application of risk performance indicators in aviation maintenance by use of barrier models
Terje Nilsen (Norway)



Maintenance Turnarounds: Human factors as a key question in integrated safety
Francisco Luis Orzáez Sancho (Spain)



Industrial maintenance in Algeria
Elias Fouad Mami (Algeria)

Management & Technology

Management / Competence



Better maintenance management through risk analysis and multi criteria decision making
Jørn Egil Johnsen (Norway)



Value adding competence
Vincent Coolen (Netherlands)



Maintenance performance measurement system: Swedish national rail
Uday Kumar (Sweden)



Ideas and views on how to technically and organisationally implement condition based maintenance
Marcus Bengtsson (Sweden)



Audit and benchmarking – tools to develop maintenance strategy
Juraj Grecnik (Slovakia)

15.20

Coffee Break in the Exhibition Area

16.00–17.00

Roundtable III

CEN / TC 319



Moderation:
Kari Komonen (Finland)

appr. 19.00

Congress Dinner in the historical city

MFS – Main Sponsor and Main Congress Organisation

The Swiss Maintenance Society (SVI) was founded in 1973. In 1989 the name has been changed to MFS Maintenance and Facility Management Society of Switzerland to reflect better dynamic situation in the market. The society understands itself as a national platform to enable its members to exchange information, experience and know-how.

The main business is organizing the examinations for Swiss federal state approved diplomas in maintenance and facility management. Preparatory courses leading to the exams are offered by several school partners (see the show in the exhibition). Other MFS services are issuing the quarterly MFS-News, maintaining the internet plat-

form, organising regular workgroups covering different topics, offering consultancy, elaborating on national and international standards and many more activities.

MFS is Member of European Federation of Maintenance Societies EFNMS and European Facility Management network EURO FM



MFS Maintenance and Facility –
Management Society of Switzerland
Bahnhofstrasse 7B
CH-6210 Sursee
www.mfs.ch

Wednesday, 21st June 2006

Management & Technology

Life Cycle Management

The model of applied Markov in the reliability of systems
Marco Reis (Brazil)



Service management as a core competency
Kai Lichterfeld (Switzerland)

Maintenance solutions with SAP PM
Ewald Rehm (Switzerland)

Enterprise asset management with SAP
Ellis Kahn (USA)

Impact of the technological, environmental and social life cycle factors on the LCM
Stipe Belak (Hungary)

Management & Technology

14.00–15.20

Advanced Technology / R+D

Semi-automatic component cleaning machine to reduce the maintenance cost, time and manpower – Air brakes of coaches
Farhan Haque (India)



Study and applications of CNC technologies for remanufacturing of used machine tools
Ma Shining (China)

RFID technology in applications for maintenance
Erich Meyer (Austria)



Reactor VVER 440 main flange seal surface repair
Dušan Belko (Slovakia)



Research on microstructure and properties of Al₂O₃ coating produced by high velocity microplasma spray
Wang Liuying (China)

Coffee Break in the Exhibition Area

15.20

Roundtable IV

16.00–17.00

European Projects



Moderation:
Stefan Müller (Switzerland)

Congress Dinner in the historical city

appr. 19.00

Visit the Maintenance & FM Exhibition and Poster Show





Thursday, 22nd June 2006

08.15–08.50

Plenary Lecture



Value preservation of Zurich road system

Martin Bürgi (Switzerland)

09.00–10.00

Global Issues

Investment / Risk Management



How to sell maintenance improvement initiatives to top management
Christer Idhammar (USA)



Investment and risk management
Miguel Simas (Portugal)



A practical model for calculating the financial return of predictive maintenance
Marc De Kerf (Belgium)

Management & Technology

Knowledge / Communication



Organizing knowledge sharing for performance improvement at Johnson Controls
Dave Burnett (Germany / Switzerland)



Service life estimation and maintenance in building design – a practical view on the application of the factor method
Maria Azzalin (Italy)

An expert system for forecasting lorry maintenance economic effectiveness
Zbigniew Skrobacki (Poland)

10.00

Coffee Break in the Exhibition Area

10.30–12.10

Global Issues

Oil and Gas



Improvement of E&P petrobras' maintenance program by an RCM tool
Bernardo Frydman (Brazil)



Safety range quantification in buried pipes using reliability index
Rabia Khelif (Algeria)



Sustainability risk management through active BAP (Business-Asset-Operations & Maintenance Process). Examples
Jayantha P. Liyanage (Norway)



The maintenance in a integrated risk management system
João Manuel Coelho (Portugal)



FMEA: Application of methodology to oil field equipment maintenance planning
Daniel Ragazzini (Argentina)

Management & Technology

Standards / Certification



SMRP maintenance & reliability metrics development
Jerry D. Kahn (USA)



Five-rank six-dimension evaluation framework of maintenance management
Li Baowen (China)



Comparison of building certification in the field of energy aspect and environmental impact...
Marta Olejnik (Poland)



Preventive maintenance of power control hydraulics in regard to EN 13306
Jožef Pezdirnik (Slovenia)



SMRP standards development
Jerry D. Kahn (USA)

12.10

Lunch in the Exhibition Area



Rheinhold & Mahla



Thursday, 22nd June 2006

Plenary Lecture 08.15–08.50

Management & Technology

Business Excellence



The development from TPM to lean manufacturing and beyond
Michael Vaag (Denmark)



The development of total normalized productive maintenance in China
Xu Baoqiang (China)



The generations of TPM and the change of maintenance role
George Peczely (Hungary)

Management & Technology

Advanced Technology / R+D



System reliability prediction based on stochastic simulation of crack propagation in vehicle / machine components
István Zobory (Hungary)



Diagnostic Equipment of Diesel Engines
León Montes (Spain)



Power management vs. thermal conditions in vehicle
Zbigniew Sroka (Poland)

09.00–10.00

Coffee Break in the Exhibition Area 10.00

Management & Technology

Business Excellence



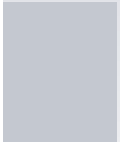
SKF's methodology to identify opportunities of improvement
John Yolton (USA)



Drive cost reduction with the six maintenance processes steps
Richard (Dick) Olver (Canada)



RCM2 implementation in a grand mining company-case study
Santiago Sotuyo (Uruguay)



Combined operations and maintenance strategy: Survey results
Marcellus R. Fernando (Australia)



A case study of the application of SKF's SRCM process at Lukoil's Neftochim Bourgas refinery in Bourgas, Bulgaria
Michael E. Creecy (USA)

Management & Technology

Advanced Technology / R+D



Enabling standards-based O&M applications interoperability
Alan T. Johnston (USA)



Preventive and predictive maintenance and new generation machine CM
Thomas Baenziger (France)



Implementation of an integrated risk based inspection (RBI) system in an onshore installation
Panos Topalis (United Kingdom)



Augmented reality in the service
Werner Hoffmann (Germany)



The support operation of cycle economy – Remanufacturing
Ma Shining (China)

10.30–12.10

Lunch in the Exhibition Area 12.10



Thursday, 22nd June 2006

13.50–14.50

Plenary Lecture



Plant asset management beyond field device engineering

Alexander Horch (Germany)



The future of service standardization in Europe

Andreea Gulacsi Gologan CEN (Belgium)



A High-risk job: Maintenance worker (Result of AFIM's surveys)

Claude Pichot (France)

14.50

EFNMS Master Thesis Award www.efnms.org

The European Federation of National Maintenance Societies, EFNMS, is running a bi-annual recurrent Master Thesis Competition program among students in the EFNMS member countries. The aim is, according to the rules appointed by EFNMS, to promote the interest and development in the field of Maintenance, i.e. Asset Management, Maintenance Engineering and Management, Reliability, Life Cycle Cost and Profit, Terotechnology, Maintenance effectiveness and organization etc.

15.00

Closing Ceremony

Accompanying Persons Program during congress 20th to 22nd June 2006

(To register please use the registration form page 21)

Program 1 Tuesday, 20-06-2006, 10.00,
Meeting point: Registration desk

“Old Town walkabout at Basel”

Enjoy the juxtapositions of different cultures and architectural styles and discover many astonishing facts about the history of the city.

Cost: € 60.00 (incl. Lunch)

Remarks: Group size minimum of 10 people

Program 2 Wednesday, 21-06-2006, 10.00,
Meeting point: Registration desk

“Visit Fondation Beyeler”

The museum, located in Riehen near Basel and designed by famous architect Renzo Piano, houses works of art by Pablo Picasso, Paul Cézanne, Claude Monet, Joan Miró and others.

Cost: € 60.00 (incl. Lunch)

Remarks: Group size minimum of 10 people

Program 3 Thursday, 22-06-2006, 10.00,
Meeting point: Registration desk

“Visit Museum Tinguely”

The museum is devoted to the life and work of the noted iron sculptor. The permanent exhibition displays the works of the artist from all phases of his creative life. It was built by renowned Mario Botta and overlooks the Rhine.

Cost: € 60.00 (incl. Lunch)

Remarks: Group size minimum of 10 people



Friday, 23rd June 2006

Technical Visits / Sightseeing

(To register please use the registration form page 21)

TOUR 1

The Hagerbach Test Gallery ...



... is a fascinating world underground. Visit of the International Centre for Safety in Tunnels. The emphasis will be put on tunnel safety and on fire protection. Test Galleries offer ideal conditions for examinations, trials and tests on other fields than underground construction.

Cost: € 200.00 (incl. Lunch & transportation)
Remarks: Group size minimum of 20 people

TOUR 2

Pharma / Chemical Site



Visit of a global pharmaceutical or chemical company. What are the requirements of office buildings, labs and production facilities? Main focus: Maintenance and Facility Management.

Cost: € 130.00 (incl. Lunch & transportation)
Remarks: Group size minimum of 20 people

TOUR 3

Jungfrauoch / Top of Europe



Put on your warm clothing and expect to find snow and ice in the majestic mountain world of the Swiss Alps at 3454 m.
 A UNESCO World Heritage Site!

Cost: € 200.00 (incl. Lunch & transportation)
Remarks: Group size minimum of 20 people

TOUR 4

Pilatus and Lucerne



Travel by nostalgic lake steamer from Lucerne to Alpnachstad and then with the world's steepest cogwheel railway to Pilatus Kulm. A uniquely impressive panorama of Alpine summits and countless lakes awaits you!

Don't miss a walkabout in the world-famous city of Lucerne.

Cost: € 200.00 (incl. Lunch & transportation)
Remarks: Group size minimum of 20 people



Welcome to Basel

Basel lies in the so called "trirhena" three-national corner, where Germany, France and Switzerland meet together.

The Congress Center Basel is downtown, the travel routes are short, and the Old Town, the shopping streets, restaurants and the many museums can be reached comfortably on foot or in a few minutes by public transport, also the hotels listed as below.

Travel informations

By car: Basel is the point where the Swiss, French and German motorway networks meet. The Congress Center Basel and the trade-fair grounds have their own motorway exit. There is a multi-storey car park with space for 1600 vehicles at the Exhibition Square.

By plane: Basel-Mulhouse-Freiburg Airport is 15 minutes' drive from the Congress Center Basel. European airlines operate fast links to 44 European cities. All direct intercontinental flights into Switzerland land at Zurich Airport, which is 55 minutes from Basel by train, or Geneva Airport (to Basel by train or connecting fly to Basel Airport).

By train: All three of Basel's railway stations – SBB (Switzerland), DB (Badischer Bahnhof, Germany) and SNCF (France) – are within 10 minutes of the Congress Center Basel.



Hotel information / registration

Basel Tourismus is partner of the Congress Committee and has reserved a number of rooms in several hotels as below listed. For your hotel reservation contact

Basel Tourismus, CH-4002 Basel

phone: +41 61 268 68 68

info@baseltourismus.ch

www.baseltourismus.ch

or contact the hotel directly about the website-address.

Please, use for any hotel reservation the code "Euromaintenance".

Attention:

At the congress time in Basel several other events take place. Therefore, it is recommendable to book the hotel room(s) immediately.

Cat.	Hotel	Address	Website	Price Single (CHF)	Price Double (CHF)	Dist. to Congress
**	Rochat	Petersgraben 23	www.hotelrochat.ch	115.–	170.–	20 min
***	Alexander	Riehenring 83	www.huetttenmoser.com	150.–		5 min
***	Resslirytti	Theodorsgraben 42	www.resslirytti.ch	140.–	180.–	12 min
***	Krafft	Rheingasse 12	www.hotelkrafft.ch	125.–	195.–	15 min
***	Du Commerce	Riehenring 1	www.ducommerce.ch	150.– / 130.–	160.– / 180.–	5 min
***	Basilisk	Klingentalstrasse 1	www.hotel-basilisk.ch	130.– / 150.–	219.– / 264.–	15 min
***	Novotel	Schönaustrasse 10	www.novotel.com	179.– / 202.–	219.– / 264.–	12 min
****	Europe	Clarastrasse 43	www.balehotels.ch	210.– / 220.–	265.–	5 min
****	Ramada	Messeplatz 12	www.ramada-treff.ch	230.– / 270.–	250.–	3 min
****	Merian	Rheingasse 2	www.hotel-merian.ch		220.–	15 min
**	Schweizerhof	Centralbahnplatz	www.schweizerhof-basel.ch	190.– exkl.breakf.	190.– (exkl. breakf.)	10 min by tram
*****	Swissôtel Le Plaza	Messeplatz 25	www.swissotel.com	245.–	275.–	CongressCenter

Current exchange rate: 1 EURO = 1.55 CHF

Registration Form

Online registration:
www.ewc06.ch

or fax this form to: **+41 61 683 13 83**

Congress participant

Mr. Mrs.

Surname: _____ First name: _____

Title: _____ Company: _____

Dep./Function: _____ Country: _____

Street/Address: _____

Postal code/City: _____

e-mail: _____

Phone: _____ Fax: _____

Participant Speaker Co-Author Poster Presenter

Conference Registration

Prices (excl. dinner)

(also see next page)

Booking / Prices incl.VAT

participant	till 31-03-06	till 09-06-06	on-site	Date: <input type="checkbox"/> 20 th to 22 nd
3 days	<input type="checkbox"/> € 1100.-	<input type="checkbox"/> € 1185.-	<input type="checkbox"/> € 1235.-	Date: <input type="checkbox"/> 20 th / <input type="checkbox"/> 21 st / <input type="checkbox"/> 22 nd
2 days	<input type="checkbox"/> € 1000.-	<input type="checkbox"/> € 1080.-	<input type="checkbox"/> € 1130.-	Date: <input type="checkbox"/> 20 th / <input type="checkbox"/> 21 st / <input type="checkbox"/> 22 nd
1 day		<input type="checkbox"/> € 560.-	<input type="checkbox"/> € 600.-	Date: <input type="checkbox"/> 20 th / <input type="checkbox"/> 21 st / <input type="checkbox"/> 22 nd

Additional / Options

Opening Ceremony (19-06-06) included Yes number of tickets: _____

Congress Dinner (21-06-06) € 100.- / pers. incl. VAT Yes number of tickets: _____

For accompanying persons Lunch ticket € 35.- / pers. /day incl. VAT Yes number of tickets: _____

Techn.Visits / Sightseeing 23-06-2006

- Hagerbach Test Gallery (€ 200.- / pers.)
 Pharma / Chemical Site (€ 130.- / pers.)
 Pilatus and Lucerne (€ 200.- / pers.)
 Jungfrauojoch / Top of Europe (€ 200.- / pers.)

Accompanying Persons Program

20-06 to 22-06-2006

- P1: Old Town walkabout in Basel (€ 60.- / pers.)
 P2: Visit Fondation Beyeler (€ 60.- / pers.)
 P3: Visit Museum Tinguely (€ 60.- / pers.)

Payment

Upon receipt of your registration you will receive a confirmation/invoice from the Conference office. Early bird tariffs can only be applied if payment is received before the corresponding deadline.

Option 1: Payment by Bank Transfer

Payment by bank transfer NET, free of all charges to the account number (IBAN): **CH6600770016064984948, Congress Plus GmbH Basler Kantonalbank, CH-4002 Basel, Clearing-No. 770**

Option 2: Payment by Credit Card. We accept American Express MasterCard VISA Diners Club

Card Number: _____

Name of card holder: _____ Date of expiration: _____

CVV2-Code: _____

(CVV2-Code = last 3 digits in the signature field of your card)

Date: _____ Signature: _____

THE FORMS SENT WITHOUT THE PAYMENT WILL NOT BE ACCEPTED!



Extract of the conditions for Participants

Congress fee

Co-author all price categories 20% less
Poster Presenter all price categories 50% less
 For groups of more than 10 people a 10% discount is granted.

Congress Desk

The **congress identity card (badge)** and the documentation will be delivered by the Congress Desk on June 19th 2006 in the Congress Center at Basel from 4 p.m. to 6 p.m. and during the congress days from 7.30 a.m.

Included in the fee

For participation all participant will be entitled to the following:

- Participation in the congress
- Detailed congress documents incl. a CD-ROM
- Lunch
- Refreshments during the breaks
- Viewing of the exhibition

General conditions

The participant acknowledges that he/she has no right to lodge damage claims against the organizers should the holding of the congress be hindered or prevented by political events (such as acts of terrorism, danger of hospitality, war, etc.) or by unexpected economic events or generally by force majeure, or should the non-appearance of speakers or other reasons necessitate program changes. With his/her registration, the participant accepts this proviso.

The Congress Organizing Committee reserve the right to make alterations to the program.

Hotel accommodation

Hotel accommodation may be booked separately through the local booking partner **Basel Tourismus**. For these item see page 20.

Cancellation Terms

Congress registration cancelled before 30th April 2006, will be refunded to a 20% administration charge plus any bank charges incurred. Cancellations made on or after 30th April 2006, will not be refunded.

Substitution may be made at any time. For substitute, please contact the registration office as soon as possible by e-mail or fax.

Registration office

Congress Plus GmbH
 Rosemarie B. Marty
 P.O. Box 166
 CH-4016 Basel

Phone: +41 61 683 13 80
 Fax: +41 61 683 13 83
 registration@congress-plus.ch

Registration via internet:

www.ewc06.ch

Information about the event

For congress information, please contact :

MM Support GmbH
 Guido Walt
 L'Arzillier 8
 CH-1302 Vufflens-la-Ville
 Phone : +41 21 701 05 13
 ewc@ewc06.ch

For exhibition information, please contact :

Congress Center Basel MCH-Messe Schweiz (Basel) AG
 Mrs. Catherine Koulekpató
 P.O. Box
 CH-4005 Basel
 Phone : +41 58 206 28 24
 Fax : +41 58 206 21 85
 catherine.koulekpató@congress.ch

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