



World Trends in Maintenance

**A Three day
Conference**

15 - 17 August 2001

International

Guest Speakers:

Peter M Robinson M.B.E

Founding National Chairman of
MESA (Maintenance
Engineering Society of
Australia)

Prof. John M Sharp Ph.D

School of Management,
University of Salford, UK

Chris Bamber M.Sc.

Quality and Marketing Director
for OLC (Europe), Manchester,
UK

Antoine Fournier

Managing Director, Foure
Lagadec Mediterranean.

Dr. Mick Hides Ph.D

School of Management,
University of Salford, UK

Venue:

Kimiad Opstal & Conference
Venue
Moreletapark, Pretoria

15 - 17 August 2001

Conference Details available at:
[Http://www.m-tech.co.za](http://www.m-tech.co.za)

Or

Contact Mariè Jones
(012) 362 0822/9

E-mail: marie.jones@m-tech.co.za



WHY YOU SHOULD ATTEND

The annual World Trends in Maintenance conference has become an event, which assist Southern African industrialists, as well as maintenance managers and engineers in defining the elusive term "World Class Maintenance". Serious maintenance practitioners who wish to be amongst the top ranking organisations in the world need the input of world experts in the field to tap into their vast professional well of knowledge.

Numerous maintenance people have in the past benefited from the quality of presentations in this internationally based conference. It is our aim to keep the event small enough to ensure that you get the advantage of ample contact with the speakers and other delegates, while still being large enough to attract internationally noteworthy speakers. The venue chosen for this year's event thus have a limitation of 80 delegates, so it will be in your own interest to register timely.

This year's conference has two very specific topics, one which is a trend presently overtaking the maintenance world by storm, while the other is one emerging rather shyly, but is nonetheless very important in ensuring that industrial organisations will win the maintenance battle. These are:

*The present trend of outsourcing maintenance work. As organisations start focussing on their core business, it is inevitable that the question of whether maintenance is part of the core business or not will have to be answered seriously. There are very attractive benefits in the outsourcing option, but also very real concerns regarding the practical and financial impact on the production environment. This conference hopes to provide more answers than questions in this very important current debate.

*While the right technologies, methodologies and systems to make a success of maintenance are now available, maintenance practice mostly belies this truth. The difference between success and failure now depends on the quality of management. This is based on the combination of a thorough understanding of this complex discipline and the activation of the potential inherent in the maintenance workforce. The ability to use the combined innovation and brainpower of the people in the maintenance organisation is the difference between success and failure.

About The Speakers



Chris Bamber

B.Eng., M.Sc., M.I.Q.A., is a time served engineer with 16 years experience in UK manufacturing organisations. He has worked as operations manager for a Swedish owned international manufacturer where he was responsible for quality, production and maintenance functions introducing ISO 9001 quality management, ISO 14001 environmental management and health and safety systems. Chris successfully introduced total productive maintenance. Currently he is Quality and Marketing Director for OLC (Europe), a Manchester based training and consultancy organisation.

Chris is an Enterprise Research Fellow (part-time) at the University of Salford, UK working on manufacturing projects where his research interest includes agile manufacturing, team working and organisational partnering issues facing small to medium sized organisations. He has published work in journals and at conferences on total productive maintenance, integrated systems, agile manufacturing and teamwork for performance improvement.



Jasper Coetzee

Pr. Eng., M.Eng., B.Com., M.S.A.I.I.E., S.M.I.C.M.E.E., M.Akad.SA., has been actively involved in maintenance practice in industry for the last 27 years. He started his working life as a Millwright apprentice. This was followed by studies in Mechanical Engineering at the University of Pretoria. He received the degree B.Sc. (Eng.)(Mech.) in 1973. Following a short training period as pupil engineer, he was appointed as Assistant Resident Engineer at a major iron mine in late 1974. While in this position he had, during subsequent periods, the responsibility for the maintenance of all the various areas of the mine.

He left the mine in late 1979 to join a major petrochemical group as Resident Engineer of one of their major collieries. During this time, he was responsible for all maintenance activities, the supply of services, surface operations as well as all project engineering. From late 1982 to the middle of 1985, he was responsible for all mechanical maintenance of one of the major petrochemical plants of the same group. This was followed by a period of 2 years during which he headed the project team that designed and chose a maintenance information system for the various plants/mines of the group.

He left in 1987 to consult in the maintenance field. The main interest of his consulting work lies in the fields of failure analysis and maintenance systems. He joined the University of Pretoria in 1993 as Senior Lecturer in Maintenance Engineering. In this role, he was responsible for the administration and co-ordination of all courses in Maintenance Engineering presented by the University of Pretoria up to February 2000. He is managing director of M-Tech Consulting Engineering (Pty) Ltd, an organisation involved in maintenance knowledge development and transfer, maintenance consulting and maintenance analysis software manufacture and distribution. He is also a member of the board of advisers of IFRIM (International Foundation for Research in Maintenance) and lectures on a regular basis at the University of Toronto as one of the lecturers in the prestigious Physical Asset Management Programme.

He is author of the widely used 450 page textbook 'Maintenance', which is a prescribed work at the University of Stellenbosch, the Rand Afrikaans University, the University of Pretoria and the Vaal Triangle Technicon. This textbook is used as basis in the more advanced courses of M-Tech and is one of the books used in the Physical Asset Management Programme at the University of Toronto. Mr. Coetzee is also the author of the RCM and Failure Analysis software package, M-Analyst. He is presently engaged in doctoral studies in the improvement and application of the RCM methodology.



Antoine Fournier

obtained a mechanical engineering degree at the Central Nantes University in France in 1983. He started his career as a project manager at a ship repair yard in Abijan in the Ivory Coast. Following this, he worked as General Manager of TMTI, a French company specialising in the management of unit shutdowns in the petrochemical, chemical and oil refining industries.

Currently he holds the position of Managing Director of one of the Fourre Lagadec group subsidiaries - Fourre Lagadec Mediterranean. Fourre Lagadec was founded in 1920 as a ship repair company. The company has grown into an industrial maintenance service company and manufacturer of high technology pressure vessels and equipment for the oil and gas industries. It has operations in France, North Africa and West Africa.

**Nico Grobbelaar**

B. Eng. (Mech), started his maintenance career in 1993 as assistant engineer on the heavy haul coal line of the railways. In this capacity, he was responsible for failure analysis and failure investigations on locomotives. Following promotion to maintenance engineer in 1995, the focus changed to wagons and he was immediately commissioned to co-ordinate a wagon failure analysis project on a national basis. During this time, he was also elected a member of an independent project team to analyse and suggest capacity solutions in the harbour of Richards Bay.

Later in 1995, Nico was commissioned to start an Engineering Department. The core responsibility of the department lay in designing and implementing a maintenance plan for a 6500 coal wagon fleet, doing failure analysis and investigations, controlling wagon configurations, as well as in using condition monitoring techniques for identifying critical wagon performance and condition deviations. In designing the maintenance plan the RCM process was followed, which was incorporated in the wagon maintenance system design during the implementation of the SAP(PM) module as part of the focussed maintenance strategy of COALLINK.

**Dr. Mick Hides**

B.Eng., M.Sc., Ph.D., C.Eng., M.I.Mech.E., is currently a Lecturer and senior research fellow for the School of Management at the University of Salford. He carried out an apprenticeship with British Steel after which he completed a thin sandwich B.Eng. (Hons) degree in Mechanical Engineering at Salford University. This was followed by industrial experience at Quest Refrigeration and Porvair Technology where he gained an M.Sc. and Ph.D. respectively via part time research in the area of operations management and new product development. He supports Professor John Sharp's research group, whilst his own research looks at the role of systems thinking (with particular

reference to Integrated Management Systems), continuous improvement, and effective use of ICT.

Dr. Hides teaches the Facilities Management and Operations Management modules for the part-time M.Sc. students from industry, at the University of Salford. He is currently co-developing further Operations Management modules and modules for an M.Sc. in Quality Management. He is also course director for the part time M.Sc. courses in Project Management and Operations Management. He has been involved in research projects valued at over £ 1 Million and has jointly published over 25 papers in books, journals and at conferences.

**Ronel Kotze**

B.Eng., started her career in heavy industry as maintenance engineer in 1991. She was involved in various aspects of maintenance and operations over the past 10 years, including condition monitoring, maintenance planning, and project work. She has a strong theoretical and practical basis in maintenance measurement and strategy setting, Reliability Centred Maintenance, Total Productive Maintenance and Competence Based Training.

She is an engineer with a very wide knowledge base, which makes her input into the maintenance field extremely valuable. She is an experienced trainer and facilitator, being involved in processes as diverse as Business Process Re-engineering, Cost Saving Initiatives, Continuous Improvement, and Mission Directed Work teams.

**Roald Rodseth**

Pr.Eng., Bsc. Eng., M.D.P., obtained the B.Sc. degree in electrical engineering from the University of Natal in 1975. He worked for 22 years in the maintenance engineering and management environment in the heavy engineering sector for Iscor. The initial period of his career was spent in electrical engineering at the Newcastle works. He then changed to the field of maintenance engineering and completed his career at Iscor in

engineering management at the Vanderbijlpark works.

At the end of 1998 he was instrumental in the formation of the company Radiant Operations International and now holds the position of managing director. This company renders a project management and maintenance engineering service to industry and is currently involved in the steel and mining sectors.

**Peter M Robinson**

MBE, psc, FIEAust, CPEng, FAIM, MACS, graduated in Mechanical Engineering and Economics, and completed a post-graduate qualification in computing. He is Fellow of the Institution of Engineers Australia and of the Australian Institute of Management and a corporate member of the Australian Computer Society and the Economic Society of Australia. After a career in the Australian Army (operation, logistics and materiel maintenance, particular in the marine and aviation areas), Peter joined the Victoria, Australian public sector in an executive capacity, working with the Roads Corporation and with other departments.

His experience includes a range of disciplines and hands-on practice in Australia and internationally throughout his working life. From 1985 to the present, as a consultant, he has been responsible for commercial development of public sector and infrastructure maintenance and support systems, principally for major Victorian corporations, and for equitable outsourcing contracts. He has led the development of international project programs. He successfully completed the critical Year 2000 Compliance Project for VicRoads and is now privately consulting on a series of projects for Boards and Departments in the Public and Private sectors.

Peter is the founding National Chairman and now Public Officer of the Maintenance Engineering Society of Australia, a Technical Society of the Institution of Engineers, Australia. Peter is Chairman or member of a number of university and other Panels and Committees. He was awarded the Society's Medal in May 2000. He is active in both professional and community affairs. He lectures at several universities and runs a vineyard in his spare time. He serves as a member of Legacy, as a Trustee, and on a number of community and professional Boards and Directorates.



Professor John M sharp

B.Eng., Ph.D., C.Eng., M.I.Mech.E., M.IFRIM, is professor of organisational excellence, formerly in the Department of Aeronautical, Mechanical and Manufacturing Engineering and more recently in the School of Management at the University of Salford in the UK. He carried out an apprenticeship with Rolls-Royce Aero Engines after which he completed a thin sandwich B.Eng. degree in Mechanical Engineering at Bradford University. This was followed by an industrial Ph.D. in high-speed textile machinery, after which he joined Unilever; where he was a Manager responsible for introducing new technology, manufacturing and maintenance systems into Unilever operating companies.

Professor Sharp has been at the University of Salford for the past 12 years and teaches operations management subjects. He leads a research group investigating the key enablers for High Performance Organisations (HPOs). The research is centred on the role of the People-Process interface in order to make improvements in business performance, with particular emphasis on quality, (including continuous improvement) business and maintenance processes. He is an active member of IFRIM (International Foundation for Research In Maintenance) and contributes to CIRP (International Institution for Production Engineering Research). He has been involved in research projects valued at over £ 3.8 million and has published over 90 papers in books, journals and conferences related to his research and consultancy interests.



Christo van der walt

Pr.Eng., M.Eng., M.S.A.I.M.E., Lectures, trains and consults in the Asset Health Management or Machine Condition Monitoring field. He is Managing Director of Engineering Dynamics (Pty)Ltd. Christo has been involved in setting up successful CM systems at major industries including power generation, steel manufacturing, process industries, mining and many others over the last 11 years. During the past 2 years he has also lectured in Vibration Analysis and Condition Based Maintenance at Pretoria University to undergraduates as well as postgraduate engineers and technicians.

Christo has written numerous papers and has done presentations at most of the important maintenance conferences and training courses held during the past 5

years in South Africa. He has travelled widely and enjoys recognition for his experience in both USA and Europe.



Jean van Staden

Cert. Eng., B.Tech., N.H.D. (Mech.), M.D.P., is a Mechanical Engineer by profession. His experience relates to maintenance and engineering in the nuclear, power generation and petrochemical industry, involved with numerous turnarounds, outages and plant shutdowns as Divisional Engineer. He was also involved in various business optimisation initiatives, and appointed as project manager for a plant shutdown-outsourcing project. He currently holds the position of Divisional Superintendent at Mossgas responsible for the operating and maintenance aspects of the Synthol Catalyst Preparation plants.

Registration Procedure

1. Complete and fax the loose-leaf registration form to M-Tech Consulting Engineers (Pty)Ltd. Fax to (012)362 0804 Please note that the number of delegates is limited.
2. Pay the required fee plus VAT at 14% into the M-Tech bank account and fax the deposit slip to the above fax number with the registration form. Bank details are as follows: **Bank: ABSA, President Kruger street, Vanderbijlpark.** Account Number: **907 223 9133** Branch Number: **632 005**
3. Acknowledgement of your enrolment will be faxed as soon as both your form and payment have been received. Registration will only be confirmed once payment has been received - remember that there are a limited number of seats available. Where companies request invoices, payment should not be delayed until the invoice is received, as this can cause losing your reservation. M-Tech issues tax invoices for courses on a routine basis, so each booking goes hand in hand with an invoice being sent to the Client Company (care of the person identified on the registration form).
4. Enla Minnaar can be contacted at our national help-line number (086 11 00 295) for assistance in finding hotel accommodation if necessary. Alternatively, contact M-Tech. A map will be faxed to you on request.
5. Inquiries should be directed to Marië Jones at (012) 362 0822/9 or Enla Minnaar (086 11 00 295)
6. The conference fee includes conference notes, refreshments, lunches and cocktails.
7. Please note that M-Tech Consulting Engineers (Pty)Ltd. Reserves the right to use alternative speakers if necessitated by unforeseen circumstances as well as to cancel the conference (with full repayment) on lack of interest.
8. Cancellations without penalty (if in writing) will be accepted up to 10 working days prior to the conference. Thereafter; a 30% cancellation fee will be payable on written cancellations received prior to the conference. Delegates that do not cancel in writing will be liable to pay the full conference fee.

Registration Details

The cost of attending the conference is as follows :

Description of part attended	Cost(ex vat)
Full conference	R3995,00
Two conference days	R2995,00
One conference day	R1795,00

Registration of 3 or more delegates 20%
 Registration of 5 or more delegates 30%

Programme

Wednesday 15 August

07:30 - 08:30	Registration / Coffee
08:30 - 09:20	Keystone Speaker A message from the international committee- the ICOMS 2001 Conference- Peter Robinson
09:30 - 10:10	Cross-Functional Team-Working for Overall Equipment Effectiveness (OEE)- Chris Bamber
10:20 - 11:00	Outsourcing of plant shutdowns Jean van Staden
11:00 - 11:30	Tea
11:00 - 11:50	Towards Outsourcing of Maintenance: An International Perspective - Prof. John Sharp
12:00 - 12:40	A Suggested Model for Outsourcing Condition Monitoring Services - Christo van der Walt
12:40 - 13:40	Lunch
13:40 - 14:20	Costing Outsourcing: An IT Viewpoint - Dr. Mick Hides
14:30 - 15:10	Mental attitudes and perspectives in outsourcing - Nico Grobbelaar
15:10 - 15:40	Coffee
15:40 - 16:40	Panel Discussion

Thursday 16 August

07:30 - 08:00	Coffee
08:10 - 08:50	The development of the maintenance service industry in the petrochemical industry in France - Antoine Fournier
09:00 - 09:40	Shifting the Maintenance Paradigm - Dr. Mick Hides
09:50 - 10:30	The impact of globalization on organisations and maintenance - Roald Rodseth
10:30 - 11:00	Tea
11:00 - 11:40	What are we doing to our people? - Jasper Coetzee
11:50 - 12:30	Industrial Disasters - are we accountable? - Peter Robinson
12:30 - 13:30	Lunch
13:30 - 14:10	To be announced
14:20 - 15:20	Panel Discussion
15:30 - 18:00	Golf - "Maintenance", exercise and cocktails***

***Important!! Bring along your golf clubs for a 12-hole golf sortie.

Friday 17 August

07:00 - 08:10	Coffee
08:10 - 08:50	Keystone Speaker Towards Team and People Centred Maintenance - Prof. John Sharp
09:00 - 09:40	The New Maintenance Management Paradigm - Jasper Coetzee
09:50 - 10:30	Getting your money's worth from your people - Ronel Kotze
10:30 - 11:00	Tea
11:00 - 11:40	5S: The Foundation of Total Productive Maintenance - Chris Bamber
11:50 - 12:30	A futuristic evaluation of the Maintenance Function in the Organisation - Prof. John Sharp
12:30 - 13:30	Lunch
13:30 - 14:30	Panel Discussion
14:40 - 15:20	Outsourcing Case Study - Peter Robinson
15:20 - 15:50	Tea