

More C-MORE facts

- 16 researchers work closely with industry partners to help them achieve excellence in asset management
- High-quality educational program design and delivery – including customized continuing education for industry professionals
- Co-organizer of the annual International Maintenance Excellence Conference focused on asset management (www.imec.ca)
- Conference partnership with Maintenance Technology – one of the field's most prestigious journals



Join us

At C-MORE, we deeply value our productive, respectful partnerships with leading businesses and organizations around the world.

If you would like to learn more about the benefits of C-MORE Consortium membership and how to join this energetic alliance, contact our Director, Dr Andrew Jardine. He will listen to your goals, answer your questions, and help you to determine whether becoming part of our Consortium is the right choice for your operation.

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C-MORE



C-MORE

The Centre for Maintenance Optimization and Reliability Engineering



Mechanical & Industrial Engineering
UNIVERSITY OF TORONTO

Based at the University of Toronto (U of T), C-MORE is a leading centre for industry-guided research in asset management. For over 15 years, our work has been driven by close interactions with industry partners and researchers at top universities around the world.

www.mie.utoronto.ca/cmored

What we do

C-MORE focuses on **engineering asset management** that fills real-world needs. Our research and educational initiatives include:

- Condition-based maintenance
- Optimal spare parts provisioning
- Maintenance performance management
- Optimizing life-cycle costing decisions
- Optimizing component replacement decisions
- Maintenance scheduling
- Protective device inspection and failure-finding intervals
- Maintenance and repair contracting decisions
- Incorporating expert opinion into reliability modelling

Drawing on our extensive research in these and other areas, we develop easy-to-use software that plays a critical role in evidence-based asset management.

The C-MORE Consortium

C-MORE is supported by a growing international group of companies at the forefront of their respective industries.

In return for their support, we help Consortium members significantly improve their asset management practices

C-MORE Consortium Members

- Manitoba Hydro
- XEROX
- Hydro One Networks
- ABB
- ArcelorMittal
- Barrick Gold Corporation
- Defence Science and Technology Laboratory (UK Ministry of Defence)
- TransCanada
- ENMAX Corporation
- Vale Inco
- Irving Pulp & Paper
- Teck Cominco



C-MORE

Part of a world-class university

C-MORE is part of one of the world's great academic institutions – the internationally respected **University of Toronto**. We also take great pride in belonging to U of T's outstanding Faculty of Applied Science and Engineering.

Engineering at U of T is ranked #1 in Canada and among the top 10 in the world by the 2008 US News & World Report and Times Higher Education – QS World University Ranking. Others in the top 10 are MIT, Berkeley, Stanford, Caltech, Carnegie Mellon, Georgia Tech, Cambridge, Imperial College, and University of Tokyo. "This once again affirms our strong reputation among our global peers," says Cristina Amon, Dean of the Faculty of Applied Science and Engineering.

Experienced leadership

Our Director is world-renowned researcher

**Professor Andrew K.S. Jardine,
PhD, CEng, MIMechE, MIET, PEng.**

Dr Jardine is the author of the economic life software AE/CON and PERDEC, which have been licensed to companies involved in transportation, mining, power, and processing. He also created the OREST software, used to optimize component preventive replacement decisions and forecast demand for spare parts.

Jardine's classic guide *Maintenance, Replacement and Reliability* was first published in 1973 and is now in its sixth printing. Dr Jardine also co-authored *Maintenance, Replacement and Reliability: Theory and Applications* (2006) and co-edited *Maintenance Excellence: Optimizing Equipment Life Cycle Decisions* (2001). He is the author of numerous influential articles and has presented his research at dozens of international conferences.

Professor Jardine completed his undergraduate and master's degrees in Mechanical Engineering at the University of Strathclyde, Scotland. The University of Birmingham awarded his PhD in Engineering Production.

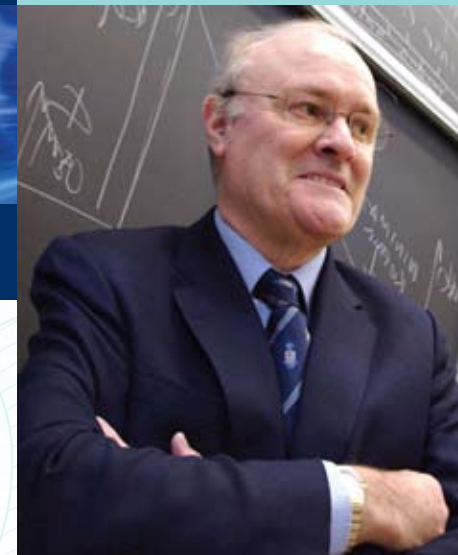


Photo: Stephen Uhraney

**Andrew K.S. Jardine,
PhD, CEng, MIMechE,
MIET, PEng.**

Member benefits

Membership in the C-MORE Consortium gives companies a competitive advantage in their markets and sectors through:

- Lower maintenance expenditures
- Increased equipment reliability
- Higher equipment uptime
- Extended asset life

One of C-MORE's main activities is the development of software, including:

- **EXAKT** software for condition-based maintenance
- **SMS** software for optimal spare parts provisioning
- **FFI** software for protective device inspection and failure-finding intervals

The Consortium is collaborative on two levels. We provide specialized and continuous advice to our members, including privileged access to C-MORE's educational programs. Members also welcome the opportunity to exchange ideas and learn from each other at our regular meetings.