



**MINUTES
ANNUAL GENERAL MEETING OF MEMBERS 2009
July 13, 2009 – 9:00 AM.
Eau Claire Room
The Westin Calgary Hotel, Calgary, Alberta**

MEMBERS IN ATTENDANCE

Christina Amon *	Hani Henein	Ron Nolan
Michael A. Ball	Wolfgang Hoefler *	Seth Panchanathan *
Douglas Barber	Safa Kasap *	Ken Putt
Vijay Bhargava	Masahiro Kawaji *	M. A. Rahman *
Arthur J. Carty	John Leggat	C (Ravi) Ravindran
Robert Day *	Victor Leung	Larry Staples *
David Devenny	Hadi Mahabadi *	Kim Sturgess
Abdulmotaleb El Saddik *	Gerald J. Maier	Lynn Tessier
Peter Englezos *	Jon W. Mark	Pieter Van Vliet
Paul Fazio*	Sylvain Martel *	Robert S. Walker *
Peihua Gu	Axel Meisen	Michael R. Wertheimer *
Carl Haas *	Javad Mostaghimi *	Alan E. Winter
Ralph Haas	Dan Motyka	En-hui Yang *
Carolyn Hansson	John Nenniger	Jessie Zhu

(* = New Member)

1. WELCOME

President **John Leggat** opened the meeting at 9:00 AM, and extended a warm welcome to all members, old and new to the **23rd Annual General Meeting** of the Canadian Academy of Engineering. He noted that since 1987 the Academy has grown from its 44 founding members – to some 293 active members and 113 emeritus members, and 3 honorary members at this time. We believe that our members clearly include many of the country's most accomplished engineers, and we salute their dedication to the engineering profession. The President introduced the head table participants – President-Elect, **Axel Meisen**, Past-President **Ravi Ravindran** and **Michael A. Ball**, Executive Director, and noted that Secretary-Treasurer **Martin Fournier** was unable to attend due to business commitments.

2. RECOGNITION OF DECEASED FELLOWS

President Leggat asked the assembly to pause for a moment to recognize Fellows who we are aware of who have passed away since our last AGM:
(PowerPoint slide with the names of the deceased Fellows was projected on screen)

Robert Blair, elected in 1989, died on April 28, 2009
John D. Goode, elected in 1993, died on February 4, 2009
George W. Holbrook, elected in 1992, died on July 15, 2008
Gordon E. Inns, elected in 1988, died on October 26, 2008
Egerton W. King, elected in 1988, died on August 21, 2008
Victor Milligan, elected in 1994, died on March 4, 2009
David G. Vice, elected in 1991, died on September 2, 2008

3. QUORUM

The President noted that our By-Laws require a minimum of 20 members or 20% of the active membership (whichever is less) to constitute a quorum. He observed that there were clearly more than 20 active Fellows present, and hence declared a quorum. He reminded attendees that while Emeritus Members are welcome to participate fully in the discussion and to address the meeting, they are **NOT** eligible to cast a formal vote, or to propose or second motions. He requested participants to identify themselves, when making motions or addressing the meeting, to ensure that we have an accurate record of the meeting.

4. APPROVAL OF AGENDA

The President invited any additions or modifications to the agenda distributed. (Attach. 4). In the absence of any changes, it was moved by G. Maier, seconded by L. Tessier that the Agenda as distributed be approved. CARRIED.

5. APPROVAL OF MINUTES – AGM 2008

It was noted that the Minutes from the previous Annual General Meeting in Montreal on June 16, 2008, had been available on the CAE website for an extended period of time, and were also included in the folders for this meeting. It was noted that the names of Carolyn Hansson and Ralph Haas as participants were missing from the Draft Minutes. With these corrections it was moved by K. Putt, seconded by R. Nolan that the Minutes for AGM 2008 be approved. CARRIED.

6. REPORT OF PRESIDENT – 2008/2009

President J. Leggat delivered his report on the Academy's year just past (see Annex 6 for full written report). He noted that the Academy had been engaged in four major efforts during the year. We were one of six sponsors of the Canadian Engineering Summit, we are sponsoring the 2009 Convocation of the International Council of Academies of Engineering and Technological Sciences (CAETS), the Canada Power Grid Task Force completed a study entitled Electricity – Interconnecting Canada a Strategic Advantage and we completed a new strategic plan and developed a 3-year rolling business plan.

Together with the other five members of the Canadian Engineering Leadership Forum, we sponsored a national engineering summit that was held in Montreal in May of this year. The

summit was designed to generate an exchange of views among engineers, and between engineers and others, about five areas of major concern to Canadians: health, environment, global competitiveness, safety and security and quality of life. The CAE led the development of the environment theme under the leadership of Ron Crotogino. Ron put together a superb group of speakers who addressed the environment theme from several perspectives. Both Clem Bowman and Kim Sturgess from the Academy participated in the session. The summit was attended by over 250 delegates who participated actively in the three-day meeting. Our academy was well represented by both speakers and delegates including Tom Brzustowski who spoke in the session on global competitiveness. The result of the summit was the Montreal Declaration, a document entitled *Leading a Canadian Future; The New Engineer in Society*. It spells out the outcome of the summit for the participants and for Canadians. The six sponsors of the summit have agreed to incorporate the elements of the Montreal Declaration into their strategies for the coming years. The declaration messages mesh well with the major directions set out in the CAE Strategic Plan and provides a rich list of topics that the Academy could take on as studies in the coming years.

This week is of course the week of the 2009 CAETS Convocation. We have been working on this event for several years now, under the leadership of Axel Meisen and Ravi Ravindran. Ravi Ravindran, Michael A. Ball and I attended the CAETS meeting in the Netherlands last year to promote CAETS 2009, at which time I was elected President of CAETS. The CAE will provide the President until the end of this year when the position will transfer to Denmark.

Our organizing committee for CAETS 2009 has put together an outstanding program with superb speakers from around the world. The Convocation promises to generate considerable discussion on questions crucial to natural resource management as we proceed through the 21st century. The sessions that address the topics of energy, water, mining and minerals and forestry will probe the issues of responsible and efficient use of our resources and the impact of natural resource recovery and use on the environment. Significant overarching issues such as climate change and the use of non-renewable resources will help focus discussion during the convocation and render Convocation conclusions about the future of the world's natural resource sectors. We are expecting about 150 leading engineers at the Convocation from 25 countries.

The Power Grid Task Force is being led by Richard Marceau and Clem Bowman. This study is a natural extension of the first report – *Energy Pathways* – that was completed in the summer of 2007. The present study picks up on one of the major recommendations from *Energy Pathways* reports and develops a number of perspectives, conclusions and recommendations for a national and continental electricity grid that interconnects key generation and management infrastructures in Canada and North America. Quoting from the draft report “Canada’s electricity system was designed and built many years ago on a province by province basis, with relatively few interconnectivities. The climate change imperative and the potential for new low GHG emitting generation are important signals that the situation needs change. Canada’s electricity sector will require US\$190 billion in new investment by 2030. This may be the time to consider strategic national electrical infrastructure investments. Energy may be Canada’s last chance to achieve a sustainable competitive advantage, something we have not succeeded in building in other key areas of the economy. We have a unique opportunity to prepare an electrical energy plan that is more than the sum of the parts”.

The report recommends immediate infrastructure projects that include interconnections between two or more provinces and a longer term strategy to take advantage of a number of opportunities for better management of electricity distribution in the country. It also makes a plea for a long term plan for investment to strengthen Canada’s east-west grid and to exploit the opportunities

afforded by the planned US east-west grid, with the possible evolution to a continental electrical network.

I expect that the CAE Board will approve the Power Grid Task Force Report in the fall of this year. The Academy will have to actively market the report so that its ideas and recommendations become well known by decision makers in the federal and provincial governments.

I would like to say a few words about the CAE Strategic Plan and 3-Year Rolling Business Plan. These plans succeed the CAE 5- year plan which was crafted in 2004. The CAE Board has been addressing the need for a follow up plan for the past two years. In early 2009, and at the direction of the Board, a group of interested Fellows undertook the task of developing a new plan for the Academy that provided both a long term strategic outlook as well as a short term roadmap for implementation. The members of the group, called the Committee on Strategic and Business Planning (COSABP), consisted of John Leggat, Axel Meisen, Ravi Ravindran, Martin Fournier, Tom Brzustowski, Michael Charles, Michael A. Ball, Doug Barber, Bob Gillespie, Savvas Chamberlain, John Mann, Richard Marceau and Moyra McDill. COSABP met once in January and followed up with several telephone conversations and e-mail exchanges. By April the new plans were developed. They were approved by the CAE Board at its June Meeting.

The plan is to be presented at the CAE AGM, but it is useful to summarize the principal elements here. The members of COASBP expressed the strong opinion that the CAE has to be much more than an honours society and needs to be known in Canada for its wealth of expertise and the wisdom that the Academy can bring to bear on issues of national importance. The effectiveness of the Academy is dependent on two important factors: the commitment of its members to contribute to the goals of the Academy and the financial resources needed to support that commitment. The mission for the Academy speaks to leadership in engineering advice and the need for the voice of engineering to be more prominent in national debate.

The Plan scopes three strategic thrusts for the Academy: developing insights through public policy development, inspiring Canadian engineering by highlighting the accomplishments and contribution of engineers to the development of Canadian society and influencing the public agenda by utilize the breadth and depth of our intellectual capital in the interests of meeting the public need for knowledge. The enablers for these thrusts include partnering and networking, intellectual capital and financial capital. The strategic and rolling business plans were distributed to all Fellows in advance of this AGM.

If we are going to make this plan work, we will need to concentrate on the enablers in the short term. We need to build commitment in the Academy for members to contribute their time and expertise to the building of the Academy and to the development and promotion of views from the engineering strengths of this country. This commitment is presently apparent in only a small percentage of our membership. We need to expand that sense of belonging and responsibility in the Academy as one of our early goals. Additionally we need to reach out to other like minded organizations, both engineering and non-engineering, to leverage their knowledge and access in areas of importance in public policy development and national debate.

In many respects your Academy is moving along the way of doing some of this now. Our leadership of the CAETS Convocation and our active participation in the Engineering Summit are two examples of CAE leadership. But there is more. We are an active member of the Council of Canadian Academies (CCA). John Grace led the recent CCA study on gas hydrates and Ron Nolan, Kathy Sendall and John McLaughlin have or are serving as CCA board members. The

CAE is presently working with the Canadian Academy of Health Sciences to develop a study topic for the CCA on bio-security. We are about to become a participant in a new CAETS study on energy security and climate change.

There are some things that we need to do to improve member commitment. First we have to ask more often for our fellows to become engaged. Presently there are many issues that need informed technological input and advice. We are contributing in only a small way now – we need to and are capable of doing so much more. We need to organize ourselves in better ways across this large country. Perhaps the answer lies in distributed groups that come together when needed either in person or by teleconferencing. We will need to think about what how these groups would be able to contribute in a highly meaningful way to the agenda of the Academy and to the needs of the nation.

Before concluding, I would like to highlight the wonderful support that the Academy receives from our Executive Director, Michael A. Ball and our Office Manager, Valérie Broadfoot. There is a large amount of work that flows through this organization in the course of a year. Our success is entirely dependent on the diligence and highly professional contributions of these two people. As President I have been very dependent on their expertise and willingness to always contribute that very important extra effort. I want to extend my thanks to Michael and Valérie for their excellent work this year. I have valued the special relationship that we have and enjoyed working with you on the many items that the Academy has taken on during the course of the year.

Finally I would like to thank the Academy for the opportunity to serve this organization as your President. It has been a challenge, but one that I have enjoyed immensely. It is an institution that has a bright future and one that can make great contributions to both the profession of engineering and our nation. We have our plan to make this happen – now is the time to get on with the job.

7. FINANCIAL

In the absence of Secretary-Treasurer M. Fournier the Executive Director presented the financial reports to the membership.

- **Financial Statements 2008**

It was noted that these statements have been prepared by our auditors (Marcil-Lavallée) for the year just past, and that they were contained in the Agenda folders. It was reported that the Auditors now use International Accounting Practices that includes changes to the previous standard. The net result for 2008 was reasonable given the economic downturn, with the sponsorship support of the Energy Task Force allowing a deferred revenue amount of about \$29K for future use. The 2008 AGM surplus funds of \$6,546 were transferred to the CAETS 2009 Reserve which now stands at \$45,385. A net loss of about \$13K was recorded for 2008. It was noted that CAETS related meetings and travel expenses were not taken from the CAETS Reserve. It was moved by K. Sturgess, seconded by C. Hansson that the audited Financial Statements for 2008 be approved. CARRIED.

- **Treasurer's Report / Budget 2009**

Executive Director also presented the *Budget 2009* (Attach. 7b), which had been approved by the Board of Directors at an earlier meeting. It was noted that this was provided for information of members only, and showed an increased amount to the CAETS 2009 Reserve and projects a break-even situation for 2009 operations. L. Tessier asked why there was a shortfall in membership dues in 2008. M. A. Ball responded that it was due primarily to non payments by some members.

- **Appointment of Auditors 2009**

It was noted that we continue to receive excellent service from our auditors/accountants, Marcel-Lavallée, and the recommendation of the Board is that we reappoint them for the year 2009. It was moved by K. Sturgess, seconded by A. Winter, that Marcil Lavallée be appointed as CAE auditors for 2009. CARRIED.

8. PRESENTATION OF CAE STRATEGIC PLAN

President Leggat noted that a copy of the Strategic Plan was sent to all members prior to the AGM and was also included in the Agenda Folders. He reviewed the process used in developing the Plan following the Academy's 5-Year Plan, and plans for implementation. He highlighted the major facets of the Strategic Plan through a PowerPoint presentation (see also the Report of the President - Agenda Item 6) and then invited questions from the membership. The questions and comments from members were wide ranging and included concerns regarding the medical isotope situation; whether the Academy should consider setting up local Chapters; the make up of New Fellows being predominately academics; climate change – what should the CAE do about it; the 'silence' of CAE on nuclear issues; the need to clearly identify the difference between Engineers Canada and the CAE. The President thanked the members for their comments and ideas and noted that they would be considered during the implementation of the Strategic Plan.

9. BY-LAW AMENDMENTS

The Chair noted that a copy of the Proposed By-Law amendments was sent to all members prior to the AGM and was also included in the Agenda Folders. Executive Director M. A. Ball extended thanks to P. Cockshutt and G. Lindberg for their assistance in reviewing the By-Laws and developing the proposed amendments. He noted that the last revision to the By-Laws was in 2005. He outlined the process used, noting the general updating to current day practices and the major change to Membership Requirements. He noted that in the printed copies presented to the members, Article II, 7.1.2 and 7.1.3 should have been omitted as this requirement is now covered in the Nomination Form. The Chair stated that formal approval of the members present is required to amend the By-Laws and he proposed a motion to approve the amendments, it was moved by P. Van Vliet seconded by R. Nolan that the proposed By-Law Amendments be approved. CARRIED.

10. ELECTION OF DIRECTORS AND OFFICERS – 2009/10

The President noted that the Nominating Committee had provided a recommended slate of proposals for 2009/10, and that these had been endorsed by the Board of Directors.

Relative to Officers/Directors-at-Large, the following names had been proposed:

For Officers:

<i>President</i>	<i>Axel Meisen</i>
<i>President Elect</i>	<i>Michael Charles</i>
<i>Secretary-Treasurer</i>	<i>Kim Sturgess</i>
<i>Past President</i>	<i>John Leggat</i>

For Directors-at-Large:

<i>Continuing:</i>	<i>Michael Avedesian</i>
	<i>Nemkumar Banthia</i>
	<i>Tom Brzustowski</i>
	<i>Aftab Mufti</i>
<i>New:</i>	<i>Richard Marceau</i>
<i>New:</i>	<i>Nancy Mathis</i>
<i>New:</i>	<i>Moyra McDill</i>

There being no alternative nominations from the floor, it was moved by A. Winter, seconded by D. Chalcraft, that this slate of officers/directors be approved. CARRIED.

Special appreciation was expressed to retiring Past-President **R. Ravindran** for his leadership and service to the Academy, and to retiring Secretary-Treasurer **M. Fournier** and Director **K. Thomas** for their service to the Academy.

Relative to membership of the Fellowship Committee the following proposal had been received:

For Fellowships Committee:

<i>Chair</i>	<i>Michael Avedesian</i>
<i>Ex-officio</i>	<i>President</i>
	<i>President-Elect</i>
	<i>Secretary-Treasurer</i>
<i>Members-at-large</i>	<i>Robert Evans</i>
	<i>Etienne P.D. Mansard</i>
<i>New</i>	<i>TBD</i>

It was moved by D. Chalcraft, seconded by K. Sturgess, that this slate of members for the Fellowships Committee be approved. CARRIED. The Chair expressed warm thanks of the Academy to **Tyseer Aboulnasr** who was retiring from the Chair of the Committee.

President Leggat invited incoming President A. Meisen to address the members. A. Meisen thanked the outgoing President J. Leggat and Past-President R. Ravindran for the leadership during the past two years, and the previous Board Members for their service to the Academy. He

noted that going forward in 2009/2010 the implementation of the Strategic Plan major actions would concentrate on a few key issues. He noted that Canada lacks major R&D initiatives in engineering. We need to 'shape' and communicate views, develop a "magazine" not just in paper or electronic format to portray the dynamism of engineering. He will be considering Regional events to attract more Fellows to be involved in CAE activities. Through CAETS and the Council of Canadian Academies (CCA) we should bring our influence to the World by collaboration in a professional and friendly way. He stated that he was looking forward to the challenges ahead.

11. ANNUAL GENERAL MEETING ARRANGEMENTS – 2010

J. Leggat indicated that the Board of Directors had recommended that the next Annual General Meeting be held June 3-4, 2010 in Toronto. He noted that the Board may need to revise the date and venue as the year advances.

12. INDUCTION OF NEW FELLOWS 2009 (Added for the record)

The Induction of New Fellows did not take place during the actual Annual Business Meeting on July 13th but took place prior to lunch on July 13, 2009 in the Mayfair Room. The President noted that 27 of the 42 newly-elected members were able to be present at the Induction Ceremony. He also noted that the Academy was taking this opportunity to formally welcome Arthur Carty as an Honorary Fellow of the Academy and to present him with his certificate, noting that Dr. Carty was inducted as an Honorary Fellow, along with Mike Lazaridis at the 2008 AGM. He then called upon President-Elect A. Meisen to read the citations (which were included in the Induction Ceremony Program at each persons table setting and were also shown on the projection screen) as each inductee came forward, received their framed certificate from the President and had a photograph taken, and then signed the "Academy Members' Register" and received a CAE pin. Those present were:

Honorary Fellow Arthur J. Carty and the following New Fellows:

Gordon Byron Agnew	Wolfgang J.R. Hoefler	M.A. Rahman
Cristina H. Amon	André Ivanov	Rangaraj M. Rangayyan
William F. Bawden	Safa Kasap	Janet L. Ronsky
Robert L. Day	Masahiro Kawaji	Nigel Graham Shrive
Abdulmotaleb El Saddik	Hadi-Khan Mahabadi	Lawrence Brent Staples
Peter Englezos	Sylvain Martel	Philippe A. Tanguy
Paul Fazio	Javad Mostaghimi	Robert Sulis Walker
Fadhel Ghannouchi	Sethuraman Panchanathan	Michael R. Wertheimer
Carl Haas	Prakash Chandra Patnaik	En-hui Yang

The President also reported that 15 other Fellows have been formally accepted for the year 2009, and will receive their certificates and members pin by mail. The additional Fellows are:

Barry James Adams	Michel Meunier	Lorne Maurice Trottier
Michael P. Collins	Chul B. Park	Willem H. Vanderburg
John Eastman	David V. Plant	Jean-Pierre Villeneuve
Venkatesh Kodur	Jonathan S. Rose	H. Neil Windsor
Chandra Kudsia	Resve A. Saleh	Ludo Zanzotto

13. CAETS 2009 CONVOCATION, CALGARY

President Leggat reported on the status of preparations for CAETS 2009, and he invited A. Meisen the Chair of the CAETS 2009 Organizing Committee to outline the major activities that would take place during the week of July 13 to July 18.

14. OTHER BUSINESS

The Chair invited any further items of business or comments from the floor. There being none, he noted that this year the Transfer of Powers to the incoming President for 2009/10 will take place on July 20, 2009, after the completion of CAETS 2009 Convocation and Council Meeting.

President J. Leggat then proposed a vote of thanks to retiring Officers: Past-President R. Ravindran; Secretary-Treasurer M. Fournier; Director: K. Thomas; and Fellowship Committee Chair: T. Aboulnasr.

15. ADJOURNMENT

President J. Leggat reminded all members and guests that had registered for lunch that the Induction of New Fellows would start at 11:30 AM in the Mayfair Room followed by lunch. The CAETS Welcome Reception would start at 6:00 p.m in the Bonavista Room, Conference Level. There being no other items of business he declared a CONSENSUS for adjournment at 11:00 AM.