Canadian Nuclear Achievement Awards

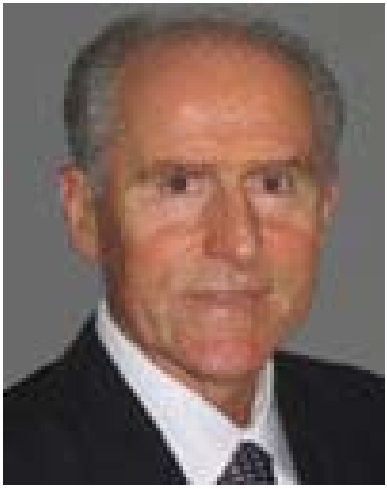
Canadian Nuclear Society/

Canadian Nuclear Association

2005 Awards Program

Hotel Marriott Eaton Centre,
Toronto, Ontario, Canada
Tuesday, June 14, 2005

Ian McRae Award of Merit – Dr. Gary Kugler



Dr. Kugler has been a key contributor to AECL's successful international commercial CANDU reactor activities for more than 20 years. In over three decades at AECL, he worked in a variety of technical, project management, marketing, commercial, and senior management areas. Gary became Vice President, Commercial Operations in 1995 and was appointed Senior Vice President, Nuclear Products and Services in 2001. He retired in 2004 and was appointed to the OPG Board of Directors.

Dr. Kugler was manager of Canadian operations for AECL's Embalse CANDU project in Argentina, and later led AECL's team that secured the Wolsong 2, 3, and 4 CANDU sales in South Korea. These multi-party contracts involved simultaneous negotiation and interface with several Korean entities – the client, the government, research institutes, the nuclear regulatory agency – as well as Korean and Canadian engineering companies and equipment suppliers.

More recently, Dr. Kugler held executive responsibility for the negotiations with Chinese agencies for the Qinshan CANDU project and with Romania for completion of Cernavoda 2.

Gary Kugler's skill, determination, and tenacity have played a major role in the offshore success of the CANDU product, with benefits that extend to the entire Canadian nuclear industry through multi-million-dollar supplier and engineering contracts, and support for advanced R&D of the technology.

Purpose of the Award

To honour an individual for outstanding contributions, other than scientific, to nuclear energy in Canada.

Outstanding-Contribution Award – Mr. Rod White

Rod White is a well-recognized and respected member of the Canadian nuclear community. He has thirty-eight years of experience in the electricity generation sector, of which nineteen years were related directly to nuclear power.

Rod White has made significant contributions towards the success of Point Lepreau. He was maintenance superintendent during construction and early operation, where he established the maintenance programs and associated infrastructure. Later, as Vice President – Nuclear, he contributed to station performance improvement, restoration of regulatory confidence, and preparation for station refurbishment. The results of his efforts have increased confidence in nuclear power in New Brunswick as a cost-effective, reliable and environmentally sound means of electricity generation .

Rod is admired for his leadership, inspiration, communication skills, keen focus, judgement, and genuine concern for people. Rod has been a strong supporter of nuclear plant refurbishment and life extension. He has recognized that success in these large projects is directly linked to the level of preparedness of the engineering, planning, and procurement. This will serve Point Lepreau well when project approval is finally achieved.

All through his career Rod White has shown unwavering support and devotion to nuclear-power generation in New Brunswick, in Canada and internationally. He has been a strong advocate of information exchange and co-operation within the industry

Purpose of the Award

To recognize Canadian-based individuals, organizations or parts of organizations that have made significant contributions in the nuclear field, either technical or non-technical. There are two categories of the award, one for individuals and another for organizations or parts of organizations.

Outstanding Contribution Award - Dr. R Mohan Mathur

Dr. Mohan Mathur has contributed significantly to the engineering profession in Canada, to the training processes for nuclear staff at Ontario Power Generation and Bruce Power, and to the creation of the University Network of Excellence in Nuclear Engineering (UNENE).

Dr. Mathur received his doctorate in Electrical Power Engineering from the University of Leeds. He immigrated to Canada in 1969, starting his academic career at the University of Manitoba. He served as Professor and Head, Department of Electrical and Computer Engineering, at U of M before becoming Professor and Dean, Faculty of Engineering Science at the University of Western Ontario in 1987. In 1999 Dr. Mathur became the Vice President, Nuclear Training Support and Services Division of Ontario Power Generation. Dr. Mathur served on the Canadian Engineering Accreditation Board from 1992 to 2001. He has also served on the Board of Governors, University of Western Ontario, and the Board of Directors of Ontario Hydro, where he was Vice Chair from 1992 to 1996.

With this background in academia and nuclear industry training and an understanding of the impending peak in requirements for staff in nuclear science and engineering, Dr. Mathur, with his contacts in academia and industry, developed the vision of UNENE. His vision and persistence have resulted in a viable collaboration that funds six senior Industry Research Chairs and is drawing graduate and post-graduate university students to pursue a career in the nuclear industry. Under Dr. Mathur's guidance as founding President, UNENE is contributing to the long-term viability of the CANDU industry through provision of trained personnel and the undertaking of pertinent research and development.

Purpose of the Award

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Outstanding Contribution Award – Dr. George Bereznai

George Bereznai is currently Dean of the School of Energy Systems and Nuclear Science at the University of Ontario Institute of Technology (UOIT). He is also a member of the Board of Directors of the University Network of Excellence in Nuclear Engineering (UNENE). George graduated in Electrical Engineering from the University of Adelaide in South Australia in 1967. After receiving a MEng and a PhD in Electrical Engineering from McMaster University, George joined Ontario Hydro in 1972 at its nuclear training centre. He rose to Senior Training Officer, and in 1980 moved to the Simulator Services Department, becoming Manager in 1982, eventually overseeing 70 persons and the operation of five training simulators.

From 1987 to 1990, George took on a temporary posting with the New Business Ventures Division as Business Development Manager for Eastern Europe, where he opened Ontario Hydro's first overseas office. In 1995, Dr. Bereznai took on a five-year appointment with AECL, as the Chair of Nuclear Engineering at Chulalongkorn University in Bangkok, Thailand. He developed and implemented a nuclear engineering curriculum comprising bachelor, master's, and doctorate programs, delivering courses on CANDU systems, operations, and control. He also taught similar courses in China, Indonesia, Vietnam, and the Philippines. In 2001, Dr. Bereznai became the founding Professor and Dean of Energy Systems and Nuclear Science at the UOIT. Always a respected member of the Canadian nuclear community, George has made a considerable contribution educating nuclear scientists and engineers in Canada and abroad.

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Outstanding Contribution Award – Mr. John Roberts

John Roberts, Design Authority for Chemistry at Bruce Power, has served the CANDU industry in Canada and abroad for 35 years by demanding chemistry excellence in the operation of plants.John arrived in Canada in 1977 with a first class honours degree in chemistry and experience as assistant chemist at the Trawsfynydd Nuclear Power Station in Wales. At Ontario Hydro he gained experience in process chemistry, metallurgy and chemical decontamination, before becoming station chemist at Bruce B. In the early 1990s, he served nearly two years at the Cernavoda Nuclear Station establishing chemistry laboratory programs and training Romanian personnel. With the exception of a short time at the Pickering Nuclear Generating Station, he remained at Bruce in various chemistry-related positions undertaking assignments to resolve various operational issues. He is now accountable for oversight of the chemistry programs at Bruce Power.

John is a plant chemist with passion. He has always been ahead of his time in realizing that good chemistry is the key to longevity. He has shown an adamant commitment to excellence and a rigorous adherence to standards and procedures that stand up against the demands of production. He has championed collaborative tests at Bruce to define operational parameters to the benefit of the whole CANDU community. Through his numerous industry contacts, his participation in industry forums, numerous papers, participation in the CANDU chemistry course and workshops, his training courses at Bruce, and his contributions to Cernavoda and Cirene, he has personified the benefits of excellent chemistry at nuclear power plants.

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Outstanding Contribution Award - Dr. Wladimir Paskievici

Wladimir Paskievici, Emeritus Professor, CNS pioneer and one of the founders of the Institut de génie nucléaire at École Polytechnique, has served for four decades as a gifted professor and internationally recognized nuclear safety consultant.

From 1958 to 1990, Dr. Paskievici taught at École Polytechnique and from 1981 to 1982 as Director of the Institut de génie nucléaire. From 1982 to 1990, he served as Vice-Dean of Graduate Studies at École Polytechnique.

While fulfilling his very broad academic responsibilities, Dr. Paskievici served as a nuclear-safety and reactor-control consultant to the Atomic Energy Control Board, Hydro-Québec, Ontario Hydro, Atomic Energy of Canada Limited, Environment Canada, Justice Canada, and Energy, Mines and Resources Canada. He was a key member of the original Reactor Safety Advisory Committee of the AECB and, later, a member of the Advisory Committee on Reactor Safety. In 1981, he joined a team of Canadian professors established by AECL to prepare recommendations on how Canadian universities could assist Mexican universities in developing nuclear engineering programs.

He produced more than fifty technical reports and scientific studies and a series of École Polytechnique publications on atomic physics, nuclear-resonance theory, the dynamics of reactor control, and reactor safety.

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Education & Communication Award – Dr. Douglas R. Boreham

Doug Boreham graduated in Honours Biology from Laurentian University and completed his PhD at the University of Ottawa in 1990. Following ten years of innovative and productive research in low-dose radiation biology at Chalk River Laboratories, he left for a position as Assistant Professor at McMaster University in Medical Physics and Applied Radiation Sciences. In 2005 he was awarded an NSERC Industrial Research Chair.

Professor Boreham has developed a novel and successful teaching program in radiation sciences. His program progresses from radiation physics and chemistry, to biology, industrial uses, radiation protection, medical physics, and uses of radiation in diagnostics and treatment. His teaching style is innovative and inspired.

Dr. Boreham's courses are very popular. The students gave him the Student Union Award, and the University gave him the President's Award for Overall Excellence in Instruction. Doug's communication reaches far beyond the University to high school students, teachers, journalists and scientists. He was a mentor to many students attending the Deep River Science Academy.

He accepts many invitations to give scientific and public-awareness lectures. The list is extensive and attests to the wide appreciation of his ability to communicate the facts and implications of the radiation sciences to very diverse audiences. Many conference organizers recruit Dr. Boreham for review seminars in radiation biology for scientists with different backgrounds.

Purpose of the Award:
This award recognizes the recipients for "significant efforts in improving the understanding of nuclear science and technology among educators, students and the public."

Education and Communication Award – Mr. J.A.L. (Archie) Robertson

Archie Robertson has been a persistent monitor of the media's treatment of nuclear issues. He has frequently challenged the CBC, the Ottawa Citizen and other newspapers on their anti-nuclear reports and editorials. He has made numerous contributions to the CNS Bulletin, and has made good use of the internet by providing significant, thoughtful contributions on nuclear issues for public access on his personal web site. He was a strong critic of the Seaborn Panel's recommendations for the disposal of used nuclear fuel. More recently, he has reviewed the information posted by the Nuclear Waste Management Organization on its web site, and has to date contributed 19 submissions.

He retired from AECL in 1985 after a long and distinguished career in metallurgy. He was made a Fellow of the Royal Society of Canada in 1981. He was awarded the W.B. Lewis Medal in 1987, the W.J. Kroll Zirconium Medal in 1993, and the Queen's Golden Jubilee Medal in 2004. Archie is a stalwart member of the Canadian Nuclear Society Chalk River Branch. In all his contributions he demonstrates objectivity, understanding of the subject, and ideas that resonate with those of many CNS members.

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This award recognizes the recipients for "significant efforts in improving the understanding of nuclear science and technology among educators, students and the public."

Education and Communication Award – Mr. Jaroslav Franta

Jaroslav Franta has for many years been a fervent communicator on the benefits of nuclear energy. As the bilingual webmaster of the Québec Branch of the Canadian Nuclear Society, he posts important educational information related to the nuclear scene, including much useful data on the history of nuclear science and technology in Québec.

Jaroslav regularly writes to newspapers to rectify incorrect or biased published information. He makes keen use of the McMaster internet discussion forum on nuclear matters, providing information and views on all science and nuclear-power matters.

As a regular speaker in schools Jaroslav has developed a hands-on educational kit for students, containing uranium ore, cloud chambers and other objects, which he uses in his speaking engagements and workshops.

Jaroslav has contributed to a CNS Québec Branch brief to the Provincial Government on the proposed refurbishment of Gentilly-2 and the expansion of its dry-storage area. He also contributed to another brief that proposed a study for a new nuclear generating station in the Province.

Jaroslav is a role model for communicating the value of science and nuclear technology to both the public and the educational community.

Purpose of the Award.
This award recognizes the recipients for "significant efforts in improving the understanding of nuclear science and technology among educators, students and the public."

John S. Hewitt Team Achievement Award – AECL Finned Strainer

The development of the finned strainer by the Atomic Energy Canada Limited team enhances safety at CANDU and other nuclear plants. It removes debris of all sizes from recirculated coolant following a loss-of-coolant accident. It is a compact design with a very large surface area, which can be backfitted into limited available space.

The team at AECL consisted of David Rhodes, Ailsa Eyvindson, Daryl Kalenchuk, Nigel Fisher, Jim McGregor, Gord Brown, Les Pratt, Micky Gutzman, Liguo Sun and Binh-Le Ly.

This technology has been applied under a wide variety of plant configurations and conditions. To date, five CANDU nuclear power stations in Canada and two outside Canada in Romania and Argentina have been equipped with the new strainers. AECL is adapting its finned strainer for use in Electricite de France's nuclear stations.

Satisfactory implementation of this strainer in each station requires close coordination with utility staff. The finned-strainer team is strongly commended for their ability to adapt the design to specific needs, and for their dedication to complete the projects to the demanding schedules.

Purpose of the Award:
The Award aims at recognizing the recipients for "outstanding team achievements in the introduction or implementation of new concepts or the attainment of difficult goals in the nuclear field in Canada".

John S. Hewitt Team Achievement Award – The International Tunnel Sealing Experiment

The Tunnel Sealing Experiment (TSX) was the first in situ test and demonstration of full-scale repository seal components. The TSX was conceived and implemented by AECL's Waste Technology Division, in particular those at the Underground Research Laboratory (URL) who, in conjunction with international partners (JNC, ANDRA, and the USDOE), saw it successfully through its planning, construction, operation and decommissioning stages.

The TSX was constructed within the URL in a full-scale (4.2-m-wide by 3.5-m-high) tunnel, commencing in 1997. It was operated successfully for more than 5 years under the applied conditions of high groundwater pressure (4 MPa) and elevated temperature (65°C). The facility was decommissioned in 2004.

The success of the TSX required the efforts of a multidisciplinary and multinational team of engineers, scientists and technicians. In order to achieve such success, it was necessary to overcome a wide variety of technical challenges associated with a large-scale prototype simulation. With the successful construction and operation of the TSX, the technical viability of constructing tunnel seals in a repository environment was demonstrated, thereby building confidence in the long-term safety of nuclear fuel disposal in a deep geologic repository.

Purpose of the Award.
The award aims at recognizing the recipients for "outstanding team achievements in the introduction or implementation of new concepts or the attainment of difficult goals in the nuclear field in Canada".

R.E. Jervis Award – Dr. Laura-lee Innes (Brown)

Dr. Laur**a**-lee Innes (Brown) is awarded the R.E. Jervis Award for her research into the use of polymer-based composites as potential container materials to store radioactive wastes and used nuclear fuel for many centuries.

Laura-lee used neutron activation analysis to measure the parameters of the diffusion of water and acidic solutions through polymers at various temperatures. Polymers, either dry or immersed in water or acidic solutions, were then exposed to the radiation environment of the SLOWPOKE-2 reactor. They were then evaluated by several mechanical and chemical testing methods. The semi-aromatic Nylon 6,6 co-polymer was found to be the most suitable container material among those investigated in this research.

Dr. Laura-lee Innes (Brown) recently completed her PhD at the Royal Military College in Kingston under the supervision of Professor Hugues Bonin and Professor Van Tam Bui.

Purpose of the Award
The Award recognizes excellence in research and development carried out by a full time graduate student in nuclear engineering or related fields.

The W.B. Lewis Medal

2004 - Michel Pettigrew
2003 - Ronald E. Mitchel
1999 - David Torgerson
1998 - John Davies
1997 - Douglas Chambers
1996 - Donald Hurst
1994 - Terrance E. Rummery
1993 - J. Terry Rogers
1992 - Joseph McKeown
1991 - Robert E. Jervis
1990 - Daniel A. Meneley
1989 - Gordon Brooks
1988 - Brian Cox
1987 - Archie Robertson
1986 - Eugene Critoph
1985 - Harold E. Johns
1984 - Franc Joubin
1983 - Albert Pearson
1982 - Ernest Siddall
1981 - Robert G. Hart
1980 - Ara Mooradian
1979 - John S. Foster
1978 - William G. Morison
1977 - Arthur G. Ward
1976 - John W. Hilborn
1975 - George C. Laurence
1974 - Harold A. Smith

The Ian McRae Award

2004 - Duncan Hawthorne
2003 - Paul Koenderman
2002 - Stu Groom
1999 - Reid Morden
1998 - Bernard Michel
1997 - Ralph Green
1996 - Donald Anderson
1995 - Robert Morrison
1994 - Elgin Horton
1993 - Walter Smith
1992 - Paul Scholfield
1991 - Stanley Hatcher
1990 - Jon Jennekens
1989 - Nicholas Ediger
1988 - James Donnelly
1987 - John Kostiuk
1986 - Arthur O'Connor
1985 - William Bennett
1984 - Larry Woodhead
1983 - Frank Foulkes
1982 - Roy Errington
1981 - George Pon
1980 - John Runnalls
1979 - Yvon de Guise
1978 - William Brown
1977 - Lorne McConnell

Outstanding Contribution Award

2004 - Brien Stewart
2004 - Ken Talbot
2004 - John Luxat
2003 - Syd Aldridge
2003 - René Godin
2003 - Kenneth Petrunik
2003 - Frank Stern
2002 - Bal Kakaria
2002 - Bill Schneider
2002 - Ken Smith
1999 - Michel Rhéaume
1997 - William Hancox
1997 - Alastair Miller
1997 - James Smith
1997 - Groupe Centre Canadien de Fusion Magnétique
1997 - Ken Dormuth, Phyllis Gillespie, Sidney Whittaker
1996 - Donald Lawson
1996 - John D. Murphy
1996 - Howard Rae
1996 - Groupe NRX Team, 1947-1992
1995 - Malcolm Harvey
1995 - Norman Sagert
1994 - Don Charlesworth
1994 - Adi Dastur
1994 - Jack Howett
1994 - Ray Silver
1994 - Groupe Pickering B "A" Crew, Ontario Hydro
1993 - Ernie Farris
1993 - Werner Fieguth
1993 - Hugh Irvine
1993 - Richard Williams
1993 - Groupe Pickering Unit 4 Retube/Rehab Team, Ontario Hydro
1992 - George Howey
1992 - John Ingolfsrud
1992 - John Murphy
1992 - Kenneth McCallum
1992 - Groupe Wolsong 2 Negotiating Team, AECL/EACL, CANATOM
1991 - John Dyke
1991 - Frank Finley
1991 - Noel O'Brien
1991 - Roger McKenzie
1990 - Ken Elston
1990 - Les Haywood
1990 - Don Hurst
1990 - Lloyd Secord
1989 - Norman Aspin
1989 - Pat Campbell
1989 - Alan Lowell
1989 - Benoit Michel
1989 - K.G. Zimmerman
1989 - Groupe Eldorado Nuclear Ltd./ Eldorado Nucléaire Limitée

Fellows of the Canadian Nuclear Society

2004 - Parviz Gulshani
2003 - Ralph Green
2003 - Hong Huynh
2002 - Brent Lewis
2001 - Paul Thompson
2000 - Jerry Cuttler
1999 - Ben Rouben
1998 - Richard Bolton
1998 - Hugues Bonin
1998 - Daniel Meneley
1997 - Edward Price
1997 - Paul Fehrenbach
1996 - Terry Rogers
1996 - Bill Midvidy
1995 - Dave Torgerson
1995 - Bob Jervis
1995 - Michel Ross
1994 - Daniel Rozon
1994 - Stan Hatcher
1994 - Fred Boyd
1993 - Alan Wyatt
1993 - Ken Talbot
1993 - Terry Rummery
1993 - John Foster
1992 - George Howey
1992 - John Hewitt
1992 - Phil Ross-Ross

Innovative Achievement Award

2003 - Esam Hussein
2003 - Doug Beattie
2000 - Ralph Hart
1998 - Ray Metcalfe
1994 - Tom Holden
1993 - Dé C. Groeneveld
1992 - Andrew Stirling
1991 - Wing Tao
1991 - Bill Morrison

Education/Communication Award

2004 - Clair Ripley
2003 - Clive Greenstock
2002 - Adam McLean
2001 - Reza Moridi and William J. Garland
2000 - Murray Stewart
1999 - Jeremy Whitlock
1998 - Morgan Brown
1998 - Ronald Hancock
1997 - Aslam Lone

John S. Hewitt Team Achievement Award

2003 - The Bruce A Restart Safety Analysis Team has made a crucial contribution to the success of Bruce Power in receiving a licence for the restart of Bruce A Units 3 and 4

2003 - AECL's Hydrogen Recombiner Development Team developed a passive autocatalytic hydrogen recombiner and has attained commercial success.

2000 - The Korean-Canadian Wolsong 2,3 & 4 Project Team (KEPCO, KOPEC, KAERI, DAEWOO, HANJUNG, HYUNDAI, AECL and CANATOM NPM) for outstanding teamwork in completing the Wolsong 2,3 & 4 Project on schedule.

2000 - T. Cousins, T.A. Jones, J.R. Brisson (DREO); J.E. McFee (DRES); T.J. Jamieson, E.J. Waller, F.J. Lemay (SAIC) and H. Ing, E.T.H. Clifford, E.B. Selkirk (BTI) for the creative conceptualization and innovative application of a thermal-neutron-activation-based system for detecting non-metallic land mines, allowing the effective detection and removal of these deadly devices.

1998 - Mr. John Skears, Dr. Charles Chang and Mr. Tung Toong, for the development of the SOPHT Computer Code.

1997 - C.C. Davison, K.W. Dormuth, P. Gillespie, M.A. Greber, K. Johansen, L.H. Johnson, G.R. Simmons, S. Whitaker, A.G. Wikjord, R. Zach, and all team members at Atomic Energy of Canada Limited and Ontario Hydro , for Development of the Concept, and Preparation of the Environmental Impact Statement for Disposal of Canada's Used Nuclear Fuel.

1996 - Staff of Point Lepreau G.S., for excellence in nuclear power plant operation and exceptional sustained plant performance.

1996 - Charles Kittmer, Roger Joynes and Larry Green, for the development and demonstration of micro-sampling of pressure tubes.

1995 - Don McLean, Bill Morgan and Mitch Ohta, for the development and demonstration of dry spent-fuel storage.

R.E. Jervis Award

2004 - Bill Santos
(University of Western Ontario)
2003 - Sarah Attia
(University of Toronto)
2002 - Tutun Nugraha
(University of Toronto)
2002 - Lt. Larry Unsworth
(Royal Military College)
2001 - Lt. Michael Walker
(Royal Military College)
1998 - Evon Reynolds
(University of Toronto)
1997 - Capt. Danny Pagé
(Royal Military College of Canada)
1997 - Mark Ho
(University of Toronto)
1996 - Sophie Wang
(University of Toronto)
1994 - Hilary Fritas
(University of Toronto),
Doug Pinto
(University of Toronto)

CNA International Award

2003: Dr. Robin Jeffrey, Past Chairman and Chief Executive of Bruce Power, and Past Chairman and Chief Executive of British Energy

1991: Lord Walter Marshall, Charter Chairman of the World Association of Nuclear Operations (WANO) and Past Chairman of the United Kingdom Central Electric Generating Board (CEGB).

1990: Lars Gustafsson, Senior Vice President, Swedish State Power Board

1988: Robert Janin, Director, Fuel Division, Électricité de France

1986: Mr. William States Lee, President and CEO of Duke Power

1985: Mr. Gaishi Hiraiwa, past Chairman, President and CEO of Tokyo Electric Power Company

CNS President's Award

2002 - Atomic Energy of Canada Limited
1997 - The Right Honourable Jean Chrétien, Prime Minister of Canada

2004 - 2005 CNS/CNA Honours and Awards Committee

Mr. Ed Price
Committee Chairman, CNS Past President

Mr. Brian MacTavish
Canadian Nuclear Association,
President COG.

Dr. Hugues Bonin
CNS Past President.

Mr. Ken Smith
CNS Past President.

Mr. Colin Hunt
Director Research and Publications, CNA.

Dr. Greg Evans
University of Toronto.
R.E. Jervis Sub-Committee.

Dr. Jerry Cuttler
CNS Past President.

Mr. Ed Hinchley
CNS Treasurer.

Dr. Paul Fehrenbach
CNS Past President.

Dr. Ben Rouben
CNS Past President

Dr. Jeremy Whitlock
CNS Past President.

Mr. Jon Jennekens
Ottawa Branch.

Dr. David P. Jackson
CNS Past President.

Mr. Fred Boyd
CNS Council Member

Mr. Paul Thompson
CNS Past President.

Dr. John Luxat
CNS First Vice President.

Logistical Support:
Denise Rouben - CNS Office