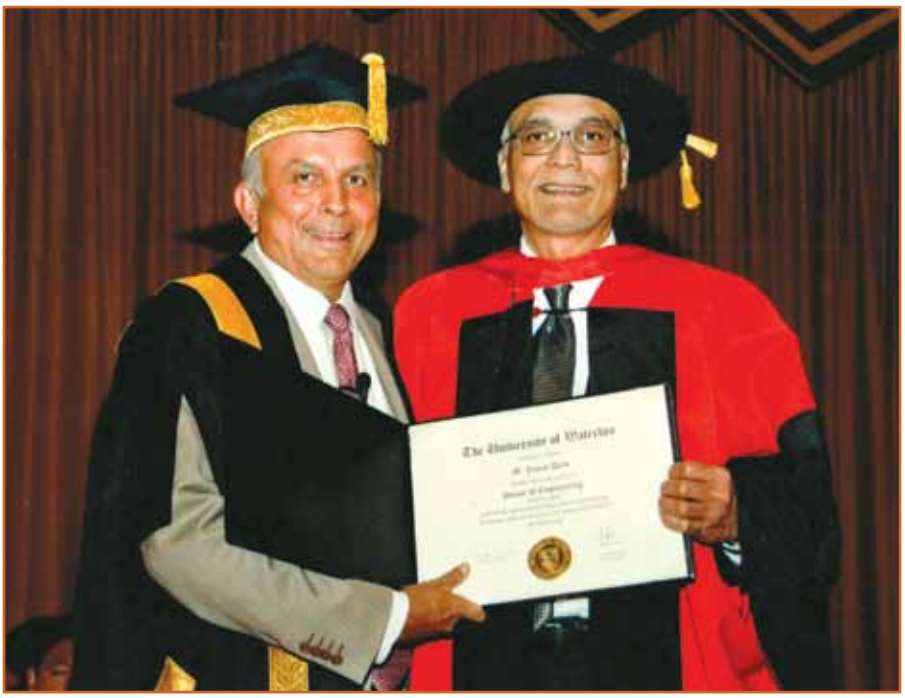
# Jamal Deen Receives Prestigious Award and Honorary Degree



*University of Waterloo Chancellor* **Prem Watsa** *(left) presented an Honorary Doctor of Engineering degree to* **M. Jamal Deen**.

**M. Jamal Deen**, a McMaster University professor and senior Canada Research Chair in information technology, received an **Honorary Doctor of Engineering** degree from the University of Waterloo. A highly accomplished researcher, inventor and scholar, Dr. Deen has helped McMaster become a major center for innovation and cutting-edge research in opto-electronics. He is a Fellow of ECS, of the IEEE, the world's largest professional association for the advancement of technology, as well of the Royal Society of Canada and the American Physical Society.

Earning his BSc from the University of Guyana, his achievements won him the Chancellor's Medal and the Dr. Irving Adler's Prize. Dr. Deen obtained his master's and doctoral degrees in electrical engineering and applied physics from Case Western Reserve University in Cleveland, Ohio, holding both Fulbright-Laspau and American Vacuum Society scholarships. His doctoral work at Case Western Reserve University, on designing and modeling of a new Raman spectrometer for dynamic temperature measurements and combustion optimization in rocket and jet engines, was sponsored and used by NASA, Cleveland, USA. In 1986, he moved to Canada where he joined the School of Engineering Science at Simon Fraser University and rose through the ranks quickly to become a full professor in seven years. He moved to McMaster University in 1999.

Professor Deen has contributed enormously to university teaching at both undergraduate and graduate levels. For his dedication to education he was honored with a Distinguished Lecturer Award by the IEEE Electron Devices Society.

Professor Deen's contributions to the profession through committee service, conference organization, and the review of scientific articles have been truly outstanding. He is a Fellow of eight societies including IEEE, the Royal Society of Canada, and the American Physical Society. He has received several research awards and co-authored/co-edited 15 books/conference proceedings, 16 invited book chapters, 238 refereed journal papers, and more than 110 plenary/keynote/invited papers in research conferences. He holds six patents, all of which have been used in industry. Professor Deen has been a very strong supporter of the University of Waterloo and a valued researcher partner to many within the Faculty of Engineering. He has the highest respect of all who work with him for his research excellence and professionalism.

Dr. Deen has received the **2011 IEEE Canada R. A. Fessenden Medal** for pioneering contributions in electronics and optoelectronics for communications. Dr. Deen is regarded the world's foremost authority in modeling and noise of electronic and optoelectronic devices for communication systems. He has successfully transferred powerful engineering and circuit models for designing communication circuits, to numerous companies. His practical models for high-performance optical detectors and experimental innovations for reliability prediction have contributed to the design and manufacture of reliable photodetectors for fiber optic communications.

His other awards include the 2002 ECS DS&T Division's Callinan Award and the 2011 ECS Electronics and Photonics Division Award; a Humboldt Research Award from the Humboldt Foundation, Germany, in 2006; and the 2008 Eadie Medal from the RSC.

# In Memoriam

**Henry Leidheiser, Jr.**
**(1920-2011)**

**Henry Leidheiser, Jr.** passed away on March 10, 2011 in Venice, Florida. He received his BS (1941), MS (1943), and PhD (1946) from the University of Virginia. His PhD studies under the direction of Allen T. Gwathmey focused on the effect of crystallographic orientation on the rate of oxidation of metals. Following his studies at the University of Virginia, he joined the Virginia Institute for Scientific Research as a research chemist eventually becoming Director and CEO of the organization. From 1968 until his retirement in 1989, he served Lehigh University as Professor of Chemistry and Director of the Center for Surface and Coatings Research. Dr. Leidheiser joined ECS in 1957 and served as Chair of the Corrosion Division. He authored a well-regarded book entitled, *Corrosion of Copper, Tin and Their Alloys* published in 1971 by the Society.

During his career at Lehigh University, Dr. Leidheiser organized several international conferences on corrosion control by organic coatings that have inspired similar conferences in Japan and most recently in the UK. Throughout his career, Dr. Leidheiser received many awards and recognitions including the ECS Electrodeposition Division Research Award (1986) and the Young Author Prize now called the Norman Hackerman Young Author Award (1947). In 1991 (the year of the above photo), Dr. Leidheiser received the ECS Corrosion Division's Uhlig Award. Other professional accolades included The Virginia Academy of Sciences J. Shelton Horsley Research Award, the American Electroplaters' Society's Silver Medal, the Society of Automotive Engineer's Arch T. Colwell Award, the National Association of Corrosion Engineers Whitney Award, the Humboldt Senior Scientist Award, and Lehigh University's Libsch Research Award. He was elected a Fellow of the American Association for the Advancement of Science for research in corrosion and was a NATO fellow at Cambridge University (UK).

In his later years, Leidheiser remained an avid golfer and bridge player. His wife Virginia (Townsend) preceded him in death by several months. He is survived by his daughter Margaret Robertson, son Henry Leidheiser III, four grandchildren, and three great grandchildren.