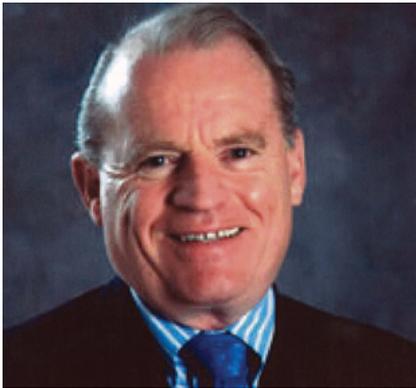


Howard D. Goodfellow

42-Year Life Member



Howard D. Goodfellow received his B.A.Sc. (1964), M.A.Sc. (1965) and Ph.D. (1968) in chemical engineering from the University of Toronto. He is a Fellow of Engineers Canada (FEC), bequested from Professional Engineers Ontario and a Fellow of the Canadian Academy of Engineering. In 2007, he was recipient of the Engineering Medal, Entrepreneurship Category from Ontario Professional Engineer and 2009 from University of Toronto, Hall of Distinction, Engineering Alumni Association. In 1970, he started his career as a process engineer with Hatch Associates in Toronto. His mentor, Dr. Gerry Hatch, encouraged him to join the former Iron & Steel Society in 1977. He has remained an active participant for many years through conference attendance, joining committees, and contributing with technical papers and exhibition presence.

Hatch environmental specialists brainstorming.

In 1986, I opened my own consulting company, Goodfellow Consultants Inc. (GCI), which specialized in the field of industrial ventilation and occupational health and safety. I encouraged my staff to participate in AIST conferences to build their professional network and capabilities.

As a professional engineer, my vision was to build strong links with academia. Prof. Alex McLean (University of Toronto and past president of AIST) has been a valued mentor and friend, as we worked to build a commercial offgas system for steelmaking furnaces. We could not have been successful without his support and guidance.

In 1982, I became an adjunct professor at the Department of Chemical

Working in the metallurgical field, I developed an interest in the areas of environmental and occupational health and safety, presenting my first technical paper at the 36th Electric Furnace Conference in Toronto, Ont., Canada, in 1978. I have presented and/or co-authored many technical papers at AIST conferences over the years and have been invited to speak at specialty conferences in the global iron and steel

and environmental fields. It was very beneficial to attend the AIST conferences over the years. These conferences were instrumental for networking with important steel producers. The technical program provided an opportunity to learn the most recent developments and trends for changing technologies that were crucial to the progression of the iron and steel industry.



Goodfellow's visit to Indian steelmakers with Alex McLean, 1991.

Engineering, University of Toronto, and taught a graduate class in the industrial ventilation/occupational health and safety field for many years. This led to the publication of a scientific textbook titled *Advanced Design of Ventilation Systems for Contaminant Control* in 1985. The textbook covered the design of building ventilation, fume and dust control for heavy industries such as iron and steel. My vision was to develop cost-effective engineering solutions to reduce air emissions to the outside environment and to improve the workplace environment from an occupational health and safety perspective. Over time, a long association with the University of Toronto continued, whereby new technologies were developed that propelled us forward to meet new challenges being faced by the steel industry.

In 1996, GCI started an R&D project to develop an on-line offgas sampling program for EAFs. This technology was commercialized in 1999. In 2001, our company (then known as Stantec Global Technologies Inc.) was one of the first Canadian companies to be awarded for this technology by *R&D Magazine*, winning the R&D 100 Award. In 2005, Tenova S.p.A., Milan acquired the EFSOP technology group and a new company called Tenova Goodfellow

Inc. was formed in Mississauga, Ont., Canada.

I appreciate the many mentors that I have had from Stantec and Tenova to provide guidance for the successful commercialization of offgas technology for the steel industry.

The steel industry has changed greatly over the years with rapid acceleration of global competitiveness and the need to develop and accept both innovative and disruptive technologies. AIST has been at the forefront to bring these

perspectives to light and will continue to play an important leadership role in this rapidly changing global iron and steel industry.

For young people choosing a career in the steel industry, AIST, in my view, provides many dynamic career benefits. Specifically, AIST is a catalyst to help young professionals understand the size, scope and complexity of the global steel industry; it enables unlimited networking possibilities, which makes it possible to exchange ideas and interact with steelmaking personnel at all levels; it encourages the submittal of technical papers that bring forth cutting-edge technologies and allows the young professional to exchange ideas; and it provides a leadership opportunity in the form of technical committees that cover a wide discipline of topics related to the modern iron and steel plant today.

I highly recommend all new graduates from STEM disciplines join AIST and become actively involved to obtain maximum benefits from membership. ♦



Signing of Sustainable Development Technology Canada R&D agreement, 2005.