IAN CAMERON

36-YEAR LIFE MEMBER

IAN CAMERON received his B.Eng. (1979) and his M.Eng. (1982), both in metallurgical engineering, from McGill University, Montréal, Que., Canada. He leads Hatch's global ironmaking technology team, which develops client-focused solutions for the production of iron and steel starting from the principal raw materials. Cameron has extensive international experience in process technology, plant operations, technology transfer, commissioning, and training in both the iron and steel and nickel industries. His experience includes coke plant, pellet plant, and blast furnace design and operations; assessing steel works energy balances; and the implementation/impact of future iron- and cokemaking technologies. In addition to his blast furnace experience, Cameron has operated submerged-arc electric furnaces in the nickel and calcium carbide industries. He joined Stelco in 1981 as a research investigator and continued working for Stelco until 1990. He then joined Cyanamid Canada as technical manager from 1990 to 1992. He worked for Falconbridge beginning in 1992 as senior process engineer, then technical superintendent for pyrometallurgy and then smelter technical superintendent. From 1996 to 2001, he was technical director, ironmaking at Hoogovens/Corus Consulting. In 2001, Hatch acquired Corus Consulting. Cameron was seconded to Hatch Australia, returning in 2005. Since his return, he has developed and led Hatch's ironmaking technology team. He is currently senior director, Iron & Steel.

When did you first hear about AISE/ISS and how? Was there someone who introduced you to the association?

I first learned about the Iron & Steel Society (ISS) as an undergraduate student in metallurgical engineering at McGill University. The department promoted societies such as ISS; The Minerals, Metals and Materials Society (TMS); and ASM International to students for our consideration and to better understand the industries we would soon be joining. Professors Rod Guthrie and Bill Davenport stimulated my interest in process engineering and iron and steel technologies. I joined ISS shorty after I started my master's degree, studying hot metal desulfurization under Professor Guthrie's supervision.

Have you received any honors from AIST (and predecessors)?

Yes, in 2011 my co-authors and I won the Josef S. Kapitan Award for Cokemaking for our paper entitled "Comparison of Byproduct and Heat Recovery Cokemaking Technologies."

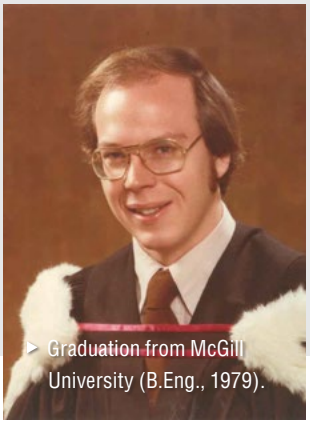
How has membership benefited you in your career? How do you see AIST benefiting people in the steel industry today?

Through my participation in AIST and the previous ISS conferences, I built a strong network and camaraderie with steel industry professionals. This network served me well early in my career as I developed my skills as a process engineer and blast furnace specialist. I value AISTech as a venue to exchange ideas on challenges that the steel industry faces now and in the future. AIST provides a great forum to present technical papers on topics of interest to the industry. I presented my first paper in 1988 and since then I have authored or co-authored about 20 papers at AIST/ISS conferences.

For young professionals, participating in AISTech enables them to understand the size and scope of the steel industry. It's the best event to gain an appreciation for the great supplier network that supports the steel industry with ideas, products and services. The Emerging Leaders Alliance conference has been an excellent forum to train young professionals on my team. Six members have taken this leadership training and all have been returned very positive about the experience and skills acquired.

I encourage mid-career members of my Hatch team to participate in AIST's Technology Committees. These committees allow my colleagues to build networks and share ideas with industry peers. We are now active in about a half-dozen committees and many of my direct reports are in committee leadership positions.

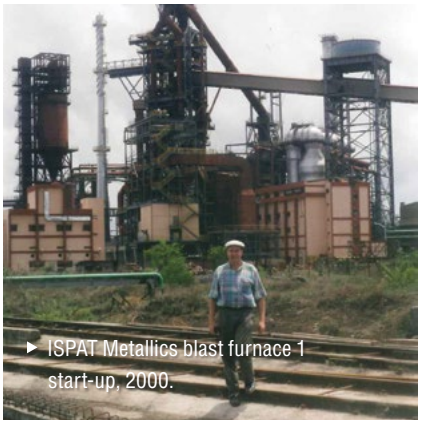
The professional awards program is a real standout for AIST — it's great recognition of outstanding contributions of member engineers. AIST's attention to detail and widespread publication of award winners


▶ Graduation from McGill University (B.Eng., 1979).


▶ ArcelorMittal Lázaro Cárdenas Pellet Plant 2 expansion study, 2012.


▶ Visit to Tecnored, 2012.


▶ Essar Steel Algoma blast furnace 7 start-up, 2007.


▶ ISPAT Metallics blast furnace 1 start-up, 2000.


▶ Breathing air test, Essar, 2007.

gives back positive energy to the reward recipients and their supporters and peers.

How have you seen the industry change over the years? What do you foresee in the (near or far) future for the steel industry?

Globalization of the steel industry has been the biggest change over my career. Multinational players have increased knowledge exchange within their companies and enriched their corporate culture as a result. Professionals are more mobile than ever before and bring new approaches to regional steel businesses. Technology improvements now spread very quickly in part due to the good work of organizations like AIST. As a world traveler, I see steel company professionals that are keen to learn; keen to be the best at every location that I visit. Steel has been and will remain a very competitive business.

When I entered the industry in 1981, there was too much capacity, and government-sponsored steel producers were a major concern. Today the same situation exists and is even more acute. To survive, clever steel producers need to be on the leading edge of technology and reinvent themselves to remain low-cost producers. Change, both good and bad, will come quickly and producers need to be flexible to take advantages of these situations.

Steel demand will continue as it is an essential material for the infrastructure and products society demands. Pressure to innovate to meet environmental requirements will spur innovation in process and treatment technologies. Financing these changes will be a major industry challenge, as will be the management of social change that comes with the closure of uncompetitive facilities.

If you were to recommend AIST to a new graduate just coming into the industry, what would you tell him/her?

I am fortunate that I am a hiring manager and have been recruiting top students to my team for the last eight years. The steel industry is a great industry. You work with some of the largest machines and advanced processes in the world. You apply the skills you learned in university and collaborate with very talented professionals. Our young professionals have the opportunity to make steel production more sustainable, reduce energy usage and improve steel industry competitiveness. The industry will challenge your mind and test your ability to innovate and make positive change. Steel producers will run with new technologies, providing a chance to see your ideas implemented into practice. It's a great industry in which to grow, learn and make a difference. ✦