



### **Dr. Florian Kongoli – Short Biography**

Dr. Florian Kongoli, [BSc (Honors), MScA (Canada), PhD (Japan)/ MTMS, MGDMB, MCIM, MSME, MAIST, MISIJ, MSigmaXi, MIFAC, MACS] is R&D Director at FLOGEN Technologies Inc., a new technology product company, independently incorporated in Canada and USA, specialized among others in the process and furnace control, optimization and automation as well as in developing low cost technologies for metallurgical, chemical and environmental industries through original physical modeling and simulation and experimental measurements.

He has **about 18 years** of research and development and academic (lecturer) experience spread in many long time invited engagements in several continents, such as in **Australia, Europe, North America, South America and Asia**. He has a rich research background in both **pure and industry sponsored research** dealing with the control, optimization and automation of furnaces, processes and flowsheets; physical and thermochemical modeling; physicochemical properties mattes, slags, metals, gases, oxysulfides etc. He has worked and successfully carried out many industrial projects for more than 47 well-known metallurgical and chemical companies such as **Mitsubishi Materials Corporation and Sumitomo Metal Mining (Japan), Falconbridge (Canada), Western Mining Corporation (Australia)**, to mention just a few. In his pure research work he has worked and cooperated with several well-known universities around the world such as **Tohoku University (Japan), Curtin University (Australia), University of Montreal (Canada)**, etc. His work is oriented among others in developing new low cost technologies for process and furnace control through physical and physicochemical modeling, simulation and laboratory experimental studies applicable in various metallurgical, chemical and environmental processes in both non-ferrous (Ni, Cu, Zn, Pb, Fe-Ni, Fe-Cr, PGMs, etc.) extraction and processing as well as in iron and steel making and processing

Dr. Kongoli has published **13 books** and about **70 scientific articles in the last 5 years** in peer review journals and other publications dealing with furnace control, optimization and automation, novel technological applications, modeling of various properties of industrial mattes, slags, metals, liquidus temperature, phase diagrams, effect of minor components, fluxing strategies, etc. He has delivered in 19 countries around the world about **130 plenary, keynote and invited presentations as well as articles, technical reports and research presentations**. The results of his work and some of his databases have been used by several companies around the world. He has also taught several

continuing education/short courses including **“Sulfide Smelting: Principles, Technologies and Environmental Considerations”** held in San Diego, CA, 2003

He has served in many **leadership positions** in national and international organizations. He has been and actually is Chair/Vice-Chair/member of about **20 professional society committees** and has been a chair of about **15 technical sessions**. He is **Editorial Board member** of the following Professional Journals: “The Minerals and Metallurgical Processing Journal” (USA), “European Journal of Mineral Processing and Environmental Protection”(Europe), Mineral Processing and Extractive Metallurgy” (UK/Australia), Mineral Processing and Extractive Metallurgy Review Journal, (UK/USA), Journal of Metallurgy (USA/Egypt) and Journal of International Environmental Application & Science (Turkey). He is also a peer reviewer of articles in various professional journals.

The results of his work and his and his company’s control and automation tools have been used by several companies around the world.

He has excellent business management and organizations skills which have been instrumental in steering his company toward new ground breaking technologies.

He has also organized several major successful International Symposiums during the last years and has been member of Organizing Committees or Scientific Committees of about **20** of Professional International conferences in all continents.

In particular he has successfully organized the Yazawa International Symposium on Metallurgical and Materials Processing: Principles and Technologies (WebSite: <http://www.flogen.com/YazawaSymposium> ) in San Diego California, USA, March 2003. The symposium had 31 sessions, and more than 3000 pages of proceedings from authors from 36 countries around the world. At the time this was the biggest International Symposium in the history of TMS (Minerals, Metals and materials Society) in USA and worldwide in its class.

He was also Organizer and Chair of the International Symposium on “Process Control and Optimization in Ferrous and Non-Ferrous Industry” to be held in Chicago, Illinois, USA in November 2003. (WebSite: <http://www.flogen.com/ControlSymposium> )

He was also Chair and Organizer of the Sohn International Symposium on Advanced Processing of Metals and Materials: Principles, Technologies and Industrial Practice, held in San Diego California, USA, in August 2006 ([www.tms.org/Sohn2006.html](http://www.tms.org/Sohn2006.html)). The symposium became a new record as the biggest in its class over passing the magnitude of the previous Yazawa International symposium with about 600 papers from 80 countries around the world and about more than 6000 pages of publications.

He is chair of the major Fray International Symposium on Metals and Materials Processing in a Clean Environment ([www.flogen.com/FraySymposium](http://www.flogen.com/FraySymposium)) to be held in Cancun, Mexico, from 27<sup>th</sup> November to 1<sup>st</sup> December 2011.