

COGENCanada CHP Association

Edmonton Seminar 2012

Speaker Biographies

Dwayne Aasberg is a Commercial Manager for Energy Systems at Dow Chemical Canada ULC. Energy Systems is responsible to provide safe, economic and reliable energy to Dow's manufacturing facilities. Dwayne's experience in Energy includes project development, contract management and regulatory interface. Dwayne is a graduate of the Faculty of Engineering at the University of Alberta, Electrical Engineering Technology at NAIT and is a licensed Journeyman Electrician.

Vittoria Bellissimo is the Executive Director of the Industrial Power Consumers Association of Alberta (IPCAA), a market, policy and regulatory advocacy organization that includes consumers from oil and gas, pipelines, agriculture, forest products, petrochemicals and steel industries. IPCAA's members constitute approximately 35% of the provincial electricity consumption, and have an active interest in promoting a competitive electricity market.

Previously, Vittoria was a Project Manager in Market Structure at the Ontario Power Authority, and had roles in procurement at the Ontario Ministry of Energy, renewable energy research at the Scottish Parliament, and Construction IT at the University of Maribor, Slovenia.

Vittoria has an M.Sc. in Environmental Sustainability from the University of Edinburgh, Scotland and a B.Sc. in Mathematics and Engineering from Queen's University, Canada. She is a licensed professional engineer (Ontario).

Jan Buijk is the President and CEO of European Power Systems Ltd. (EPS), a Canadian company that is specialized in providing energy solutions with best in class gas engine technology for clean energy projects such as CHP, biogas and other gaseous fuelled power generation applications.

Over the past 20 years Jan has had engineering, project management and direct sales and marketing responsibilities for more than 100 CHP, district energy, and other distributed generation projects currently in operation across Canada.

Jan received a degree in Mechanical Engineering from the University of Utrecht in The Netherlands, where he also wrote a thesis on the use of landfill gas for power generation applications.

Jan is a former director of OSEA and the CDEA, holds a director position with the Association of Power Producers of Ontario and is Chair of WADE Canada.

Ian Bush BA, Econ(Honours), MBA (Marketing). Director of Training and Administration COGENCanada. A summer student job in a pulp and paper mill steam plant (Power Eng 4th Class) was followed by experience in all operations. Following graduation he continued a career in pulp and paper becoming responsible for Human Relations and Training. For over 30 years he has delivered training courses and is a business consultant. This led to an appreciation of the benefits of cogeneration. He has experience in delivering classroom training, Audio Conferencing and various forms of internet based training.

Jonathan Carlson, P. Eng., is the Cogeneration Operations Specialist at MEG Energy supporting their Christina Lake assets. He is active in the Turbo Generation community and currently Chairs both the OSDG Co-generation and Power Infrastructure Committee and the Frame 7EA Arctic Users Group. Previous to MEG Jonathan was a Facility Engineer at TransCanada for 12 years supporting their North American turbo compressor and generation fleet.

Stan Danov is a process engineer at Suncor Energy, Inc. He provides technical expertise in the areas of Energy, Steam, Power and Heat Transfer. Mr. Danov's career includes 25 years of experience in the Power Generation and Oil and Gas industry. His experience includes design, research, feasibility studies and plant technical support related to steam generation, power generation, energy efficiency, thermodynamics, heat transfer, combustion and combustion-generated emissions.

Alex Davey works within the service division of Siemens Energy taking responsibility for the life cycle of two of their gas turbines. Joining the business 20 years ago he has worked in a variety of roles across the business, from SCM through to Technology & Innovation before his current position where he looks to reduce life cycle costs and improve availability & reliability KPI's.

Vince Gambino, P.Eng.

Vince got his start solving noise and vibration issues with aircraft engine manufacturer, Pratt and Whitney. In 1992, he teamed up with the "sound" thinkers and founding partners at Aercoustics Engineering Limited. With more than 27 years of problem solving experience, Vince's notable projects have included: one of the world's first outdoor active noise cancellation installations, a series of noise and vibration control projects for simple cycle and combined cycle power generation as well as noise assessment noise control and acoustic measurement and performance verification of gas turbine engines and wind turbines. The Active Noise Cancellation project for the Ottawa Health Sciences Centre won the 1995 Award of Excellence from the Association of Canadian Consulting Engineers of Canada.

Mr. Gambino is regularly called upon to provide expert witness for the Ontario Energy Board, Ontario Municipal Board and courts of law. And while his hobbies have also included spending time at the National Research Council of Canada to design and manufacture his own line of loudspeakers, these days his off-peak hours are spent navigating the Niagara Escarpment on his mountain bike.

Biju Gopi is Manager, Commercial Services at the Alberta Electric System Operator (AESO). In his current role, Biju is responsible for leading the Commercial Services team, which includes the procurement of AESO's ancillary services and managing associated contracts. He has over 10 years of experience in the electricity industry and prior to joining the AESO, he has worked with the Ontario's Independent Electricity System Operator (IESO) and the MidwestISO (MISO), in various departments and roles.

Since 1989, Ernie has served in a number of different and progressive roles within Alberta Environment and Water. He has been extensively involved in water allocation issues having spent time involved in water allocation licensing, and in managing the development of the Water Act, which is the primary water allocation legislation in Alberta.

Ernie Hui, P.Eng. Deputy Minister Alberta Environment and Water

Ernie has served in a number of leadership roles, including Director of Drinking Water Branch, and Director of Northern Region. He served as the Northern Region Director at a time when significant growth in industrial activity occurred, particularly in the oil sands region. Ernie has also led significant change initiatives in the Department, and in particular, led the initial Transition Team that helped shift Alberta Environment and Water from a "single-activity" regulatory approach to our current outcomes focused cumulative effects management approach. Ernie's education background is in engineering, having received a Bachelor of Science in Chemical Engineering from the University of Alberta.

Manfred Klein is Program Coordinator for Energy and Environment with the Gas Turbine Labs of the National Research Council of Canada (NRC-GTL) and is a recognized gas turbine expert with 30 years of concentration in applications and emissions. Following graduation with a B. Eng in Mech & Aero Engineering from Carleton University in 1980, Manfred spent 11 years with the National Energy Board, involved in design assessment of natural gas pipelines, compressor stations and combined cycles. From 1991 to 2007 he was dealing with gas turbine air emission guidelines, industrial energy and cogeneration issues, and environmental assessments. For 2006-09 he chaired the Canadian Industrial Gas Turbine Applications (IAGT) committee, and is a former Chair of the international ASME-IGTI Environmental Affairs committee.

Frederic Lebel is a graduate from the Environmental Science faculty of McGill University where he completed a bachelor degree in Renewable resource management. He started his professional career in the municipal sector as director of environment and urban planning. Passionate of renewable energy and business development, he was then recruited by the former Canadian GE Jenbacher distributor Wajax Power Systems to develop the market for the GE Jenbacher technology in Eastern Canada. With the recent change in the distributorship of GE gas engines in Canada, Frédéric has now moved to the position of Electric Power Manager, Eastern Canada for the new GE gas engine distributor: Gas Drive. Gas Drive is a subsidiary of Enerflex with the mandate to

offer top level sales, engineering and service for GE gas engines in Canada and Northern US.

Murray Sloan, P. Eng., is the Senior Manager of Energy & Utilities at the University of Calgary and is responsible for Energy Procurement, Energy Management and three operational units.

Murray received his Bachelor of Science degree in Mechanical Engineering from the University of Saskatchewan (Saskatoon, Saskatchewan Canada) in 1986.

Murray is a registered professional engineer with APEGGA (Association of Professional Engineers, Geologists and Geophysicists of Alberta) and a member of ASHRAE.

Presently, the University of Calgary is nearing the completion of a billion dollar capital expansion. In order to meet the increased heating and electrical demands of these new facilities the UofC elected to build a 13MW combined heat and power system which Murray was the project sponsor and actively involved in the planning and design. The project recently completed final commissioning and is now operational.

Landon Tessmer, P. Eng., is the Senior Sales and Proposal Engineer at IST. He studied Mechanical Engineering at the University of Waterloo specializing in fluid dynamics and heat transfer. Landon has been part of the Sales and Proposals team at IST for 3 years; responsible for the thermal design and optimization of Once Through Heat Recovery Steam Generators. Landon also generates pricing and project budgets, proposal documents and provides customer support for projects worldwide, ensuring adherence to bid specifications and showcasing the many benefits of the OTSG technology.

Subash Vohra, P Eng. joined the National Research Council (NRC) in 1966 where he rose to become the Director General of Administrative Services and Property Management. Many of Subash's projects, such as a number of energy performance contracts and installation of a 4.5 megawatt gas turbine cogeneration unit have been considered best practices in the public and in the private sector which contributed to NRC being considered a pioneer in energy efficiency. He is the recipient of the first Federal Energy Innovation Award, the Treasury Board Award for Leadership in the Federal Real Property Community, Ontario Hydro's Energy Efficiency Award, ASHRAE's Technology Award, the Governor General's medal for contributions to Canada, the Golden Jubilee Medal and the Real Property Institute of Canada's Life Time Achievement Award.

Kathryn Wood studied mechanical engineering at the University of Alberta, and began her career with the Alberta public service immediately after graduation. She has managed research projects and programs for the Alberta Oil Sands Technology and Research Authority (AOSTRA), the Alberta Office of Coal Research and Technology (AOCRT) and the Canada-Alberta Mineral Development Agreement. Kathryn joined the Electricity Division at Alberta Energy in 1999 while earning her MBA from the University

of Alberta. She has exercised her leadership skills as head of the Retail Market team, and is now Executive Director of the Electricity Markets Branch in the Electricity, Alternative Energy and Carbon Capture and Storage Division. Kathryn is a registered professional engineer in the province of Alberta.

Joseph P. Zanyk, B. Eng. Elec, P Eng, MASME, President of J. P. Zanyk and Associates. Energy consultants in cogeneration and power plant design and plant operation problems. He has been on key ASME GT & Cogen Committees. Was top Combined Cycle Cogeneration technical person for Dow Chemical world wide. Was responsible for design and operation of major cogen plants. With experience with Integrated Gasification Combined Cycles, Joe was an advisor in connection with the class 43.1 federal Cogeneration tax incentive. Recently worked on an Integrated Gasification Combined Cycle Cogeneration (Polygeneration) study involving gasification of coal to generate electricity, process steam heat and chemicals. He helped Dow and Destec Engineer at the Wabash Integrated Gasification Combined Cycle (IGCC) power plant.