

CREW Board of Directors – 2011-12

Shane Mulligan (President): BSc, BA, MA – Shane heads Radicle Consulting, a renewable energy and co-op consulting firm, and is currently Project Manager for Local Initiative for Future Energy Co-operative (LIFE Co-op), a local renewable energy co-op that is working on a 2MW wind project near St. Agatha. He completed the Co-op Management Certificate Program at the Schulich School of Business, York University in 2011. Shane studied and taught at the university level for a number of years, where his research and teaching focused on the politics of the environment and energy. He lives in Kitchener with his wife, Cristin, and their children Sadie and Sam.

"I would like to bring my understanding of the political realm and the global energy situation to serve CREW's members and in support of CREW's mandate. I am foremost a writer and analyst, and will be keen to contribute to CREW's publications and education efforts. I am also looking forward to an opportunity to share my growing knowledge around the policy environment for renewable energy generation in Ontario, the technicalities of wind power, and the potential for co-operative businesses to help guide us as our economic conditions continue to change."

shane@crewzone.ca

George Klemetsch (Vice-President): George became a member of CREW Executive in 2008 and took over the Presidency from Derek Satnik in 2009. George's day job is Director of Sales & Marketing for a small power electronics distributor in Burlington, Ontario (ICT Power Company). George has been in technical sales of high power semiconductors and related components and sub-systems for over 25 years. George's other pro-bono activities included 6 years with the Central Frederick Neighbourhood Association (President, Vice-President, and Treasurer). George has a solid understanding of thermal dynamics, energy conversion for systems ranging in size from 1kW to 1MW. George believes conservation and reduction of wasteful leakage and quiescent currents is the best means to solving the current energy dilemma. The need to conserve should become front and center.

george@crewzone.ca

Kurtis Unger (Secretary), P. Eng.: Kurtis obtained his undergraduate degree in Computer Engineering from the University of Manitoba. He then worked as a hardware engineer, designing embedded electronics for industrial vehicles, specializing in interface products and forensic investigations. From 2007-2010 he worked with Mennonite Central Committee in rural Tanzania doing information and communication technology (ICT) development work with a local HIV/AIDS clinic. He also conducted water and renewable energy projects in the region. He is currently pursuing his Masters of Applied Science in Electrical Engineering at the University of Waterloo, focusing on electrification in the developing world. Kurtis' other interests include sustainable development, renewable energy and energy efficiency. He is married with three children and goes cycling with them whenever the opportunity arises. The family lives in Waterloo.

kurtis@crewzone.ca

Glen Woolner (Treasurer & GM): Glen graduated from Laurier with a BA (Psych/Soc) and is an early founding CREW associate who assisted in the formation of the earth energy group. He sees the value in conserving and wants to do what he can to keep the family home comfortable and efficient - a model for others in practicing stewardship of our resources. Glen had prior experience in using solar panels—"homemade out of readily available parts and very effective"—to heat a pool, and in his current home has installed as a pilot project a ground source heating/cooling system integrated with solar for the domestic hot water supply. This project was also the first urban location in the area to utilize new

'sonic' vertical drilling technology to demonstrate that earth energy/geothermal technology is viable in urban as well as rural settings. Glen created a documentary on the project with video and a PowerPoint that has been shown many times across this region. He recently installed a green, recycled, recyclable roof to outlast the Solar PV system installed this past June. Glen is a leader of CREW-earth energy, but maintains a keen interest in all of CREW's activities, especially the Power Saving Network and the Solar City Project. He also manages the CREW website.

glen@crewzone.ca

Derek Satnik - P.Eng., LEED AP: (Ex-officio, CREW Past President, Policy Leader) Derek Satnik is a LEED Accredited Professional Electrical Engineer who specializes in renewable energy solutions and in sustainable design of buildings and communities. Derek participates actively in numerous industry associations such as the Canada Green Building Council (CaGBC), the Net-Zero Energy Home Coalition, the Ontario Sustainable Energy Association, and much more. Derek has experience in nearly all aspects of electrical engineering design, with wind and solar energy projects and with designing and commissioning LEED rated environmentally friendly and sustainable buildings. He is the Managing Director at Mindscape Innovations, a nationally awarded green building / green energy consultancy. Derek and his wife Jackie have 5 beautiful children, and Derek believes in 7th generation thinking: that the world is not only inherited from those before us, but borrowed from those who will follow after us.

derek@crewzone.ca

Emily Anderson has a B.Eng. in mechanical engineering from Lakehead University, April 2007 and is a graduate of mechanical engineering technology from Mohawk College. Emily has always been conscious about the environment and has developed a passion for learning and promoting renewable energies. As a volunteer for CREW and Habitat for Humanity she strongly believes in contributing to your community and playing your part in helping the environment. She has worked in design and consulting and is currently working for a local solar company designing and installing residential solar systems. Emily continues to educate herself and is currently taking a home inspection program at Conestoga College. Emily maintains a focus on renewable energy, energy-efficient housing, and alternative energy sectors (geothermal, solar, wind), and has laboratory and field experience, including managing project phases or sections. Emily has already contributed a great deal to CREW as a volunteer and as an observer on the CREW board. She lives in Waterloo and enjoys spending time with friends and family.

emily@crewzone.ca

Isaac Musial (director) is a U of G Bachelor of Arts Criminal Justice and Public Policy 2007 graduate and is a local advocate of clean and sustainable energy solutions. Isaac has working knowledge of the Green Energy Act and FIT/MICRO-FIT programs. He is also a small business consultant specializing in marketing initiatives in both local and national markets, achievement of revenue-related goals, brand management and developing business networks. He is currently sitting on the Waterloo Citizen's Environmental Advisory Committee (WCEAC) and has experience sitting on a number of advisory boards and committees. Isaac is interested in helping increase awareness/communication of CREW's activities by creating/utilizing social media and making important connections with other grass root level organizations, key members of University communities. He also has abilities in both graphic and video design. Isaac has contributed as a volunteer with past CREW events. Isaac lives in Waterloo.

isaac@crewzone.ca

Steve Voisin (director) - P.Eng.: Steve graduated with Environmental Engineering from the University of Guelph

Steve started his career cleaning up contaminated properties before moving into his current occupation of commercial property development. He designed, built, and managed numerous commercial properties over the last 15 years, including local developments such as the Sunrise Shopping Centre and the new Boardwalk development. Steve is a huge advocate for renewable energy production but also fully recognizes that every kilowatt conserved is the same as producing one with renewable energy. He practices what he preaches, as The Boardwalk development includes LED parking lot lighting, which is one of the first commercial developments in Canada to incorporate such new technologies.

Steve has solar panels on the roof of his home and will be installing a 250 kW system on one of the commercial buildings later this year. Steve and his wife Shevaun have 4 children and are witnessing that their actions do make a difference for the future.

steve@crewzone.ca