



Earth Observation Systems, Geomatics & Spatial Analysis Workshop

BIOS

Ahmed, Oumer

Ph.D. Candidate, Environmental and Life Sciences

Oumer Ahmed completed his undergraduate degree in Geography in Addis Ababa, Ethiopia and his M.Sc. in Applications of Modelling in the Natural and Social Sciences at Trent University. He is currently completing his Ph.D. program in Environmental and Life Sciences at Trent University. Oumer is a regular Geomatics and Remote Sensing Teaching Assistant and his doctoral research delves deeply in the applications of Remote Sensing to the assessment of past condition and trends of primary productivity and land degradation using 22 year historic multi-resolution satellite data, and on modelling predictions of the effects of climate change on primary productivity and land degradation. His research projects have been funded by the United Nations Food and Agriculture Organization (FAO). His work is in collaboration with Prof. Raul Ponce, GEORES-LAR.

Bale, Sarah

M.Sc. Candidate, Applications of Modelling in the Natural and Social Sciences

Sarah Bale completed her undergraduate degree in science at the University of British Columbia majoring in Ecology and Physical Geography. Independent studies completed at the Bamfield Marine Science Centre on Vancouver Island lead to her passion for marine ecology. Personal interests in sustainable agriculture and development have resulted in a thesis creating an integrated set of models to investigate agricultural production as an exit strategy for subsistence and artisanal fishing communities in Kenya. These fishers have experienced significant declines in total catch, catch per unit effort, mean trophic level of catch, and catch stability. Recovery of fish stocks in some areas has been accomplished with restrictions on fishing gear and area closures. These recoveries however, are thought to be insufficient, especially in the face of climate change and recent coral bleaching events. Research has shown alternative livelihoods and sources of income are often lacking, or simply, that the alternatives are not attractive or affordable enough for fishers to reinvest time and effort. The investigation of alternative agriculture and fisheries management strategies will be used to develop an integrated management system for the coastal population of Kenya.

Curlew, Colin

Representative Geographic Information Specialist, GIS Technology Services
Business Solutions Services East, Land and Resources I&IT Cluster. The Land and Resources Cluster (LRC) provides information and information technology (I&IT) services and support to the Ministries of:

- * Aboriginal Affairs (MAA)
- * Agriculture, Food and Rural Affairs (OMAFRA)
- * Environment (MOE)
- * Natural Resources (MNR)
- * Northern Development and Mines (MNDM). The LRC builds, maintains and advances the I&IT infrastructure, delivering I&IT services to its client ministries. This includes the delivery of services related to GIS application development, maintenance, support and training; GIS data services (e.g. maintaining a data warehouse); and a GIS Community of Practice, among other things.

Jones, Kevin R.

Director, Marketing and Product Management

Kevin Jones has been with PCI Geomatics since April 2009 and has over 13 years of experience within the geomatics industry. Kevin has implemented a diverse range of projects and programs to foster increased use of remote sensing for environmental, agricultural, and defense related decision making. He has had a very close interaction with end users of geospatial technology both domestically and internationally throughout his career. Previously, he worked for MDA in a Project Execution and Service Development capacity, where he was most recently responsible for the successful execution of a SAR applications demonstration project for the US Military. Other previous experience includes the development wetlands based mapping products through the execution of the European Space Agency sponsored Globwetland project, as well as the commercialization of parcel based agricultural information derived from remote sensing data for Canadian growers. Mr. Jones sits on several geomatics related committees, including the 2010 Geotech Conference Planning Committee, the Canadian Geospatial Data Infrastructure (CGDI) Steering committee, which provides advice to the government on issues related to geomatics. Mr. Jones holds an Honours BA Degree in Geographic Information Processing from Carleton University, and has been a certified Project Management Professional (PMP) since 2003.

Keillor-Faulkner, Lawrie

Geomatics Program Coordinator
on sabbatical with Kawartha Heritage Conservancy

Professor Keillor-Faulkner has taught at Fleming College since 1996. She holds an Honours Bachelor of Science (GIS emphasis) from Trent University. She also holds a GIS Applications Specialist Certificate from Fleming College, and a Cartographic Technician Diploma (Photogrammetric Option) from Algonquin College. She received first class standing in each of these educational programs, and was a nominee for the Pascal Teacher's Award in 2002. She is also the recipient of the Currie Honours Award in Geography, the J. Emmett Duff Memorial Prize in Geography, the Gerald Wade Essay Contest, and a Bachelor's thesis grant from the Royal Canadian Geographic Society. Professor Keillor-Faulkner has worked at the Ontario Ministry of Natural Resources as a GIS Consultant on the Natural Resource Values Inventory System (NRVIS), as a Technician for Provincial Georeferencing (Geodetic Surveys), and as a Documentation Analyst for the Fixed Asset Management Team. She was also employed as a Systems Officer at the Division of Community Health and Support Services, and as a Mapping Technician and a Photogrammetric Technician at various companies. Professor Keillor-Faulkner enjoys teaching geomatics because it evolves quickly, it's on the leading edge of technology, and it relates to the real world. She predicts that the Internet will play an integral role in geomatics developments in the next decade.

Kraft, Hardy

National Training Manager, ESRI Canada.

Hardy Kraft has over 18 years of experience in adult education and training. He is the National Training Manager at ESRI Canada and is responsible for delivery of ESRI training programs through 16 regional training centres and six mobile labs. Prior to joining ESRI Canada, Hardy was at Sir Sanford Fleming for over ten years including seven years as a GIS Professor and three years as Manager of the Geomatics Institute. Hardy started his career with the Ontario Ministry of Natural Resources and spent twelve years in the forest fire management division. He holds a diploma in Forestry from Algonquin College and a post-diploma GIS Application Specialist Certificate from Sir Sandford Fleming College.

Macdonald, Brad

Vice President of Business Development, BSM Wireless Inc.

BSM Wireless Inc., a leading provider of fleet management, fleet diagnostics and Telematics systems for the Enterprise marketplace. Brad brings over 19 years of experience in the Consumer Electronics marketplace including the last 10 years in the Telematics industry. Having successfully launched several Telematics solutions, Brad has in-depth experience with many Telematics hardware and software platforms, 12V automotive systems, hardware design, telecommunications, and has developed unique product training and installation programs worldwide. Prior to joining BSM, Brad led key initiatives such as deploying market strategies for Global Location Systems, Inc., and worked with the mobile product portfolio of Pioneer Electronics of Canada.

Nellestyn, Andrew

President and CEO, Anel Inc

Colonel (Ret'd) Andrew Nellestyn OStJ CD PhD PEng enjoyed a rewarding career as a senior General List Officer in the Canadian Forces, municipal politician, professor, senior corporate executive, engineer, physicist, economist, community volunteer, and archaeologist. Colonel Nellestyn was named to Who's Who in Atoms for his contributions to nuclear medicine, reactor design, and environmental research. His work in geomatics and spatial information and applications has earned him broad acclaim. He is President and CEO Anel Inc. Consulting Services. Andrew is a widely acclaimed expert in Middle East and world affairs as well as in national and global political, economic, defence and security, and financial systems strategy and analysis. Anel Inc. Consulting Services provides consulting and advisory services to select clients in the public and private sector as well as global institutions and agencies in areas such as: economics; politics; governance; economic development; international aid and reconstruction; financial regulatory and security analysis; banking and investment; sales and marketing; defence and security; and corporate finance and restructuring.

O'Brien, Stewart

Geomatics Professor,

Mr. O'Brien has taught at Fleming College since 1999, and holds a B.A. in Geography, a Diploma in Cartography, and a GIS-Mapping Specialist Certificate. Before joining the team at Fleming, he taught at Georgian College in Barrie. Prior to teaching, Mr. O'Brien created topographic maps for 18 years, and had a second-place showing in the Deville Photogrammetric Mapping Competition.

Ponce, Raul

Associate Professor and Director, Applied Geomatics, Remote Sensing and Land Resources Laboratory (GEORESLAR), Trent University

Raul Ponce is Associate Professor of Environmental Sciences and Geography at Trent University since 1991 and Director of the GEORESLAR lab since 1994. He holds M.Sc. and D.Phil. degrees from the University of Oxford and is a regular technical advisor to UN agencies, in particular the Food and Agricultural Organization (FAO) and the UN Environmental Program (UNEP). Prof Ponce is a former member of the UNFCCC CDM Executive Board and member of a number of academic and scientific organizations. Author of papers and two books on applications of Geomatics, Remote Sensing and Spatial Modelling to natural resources and environmental issues, particularly Land Resources, and the effects of climate change. Currently Prof Ponce is working on consolidating an agreement of partnership with the UN-FAO for research on Earth Observation Systems, Geomatics and Spatial Analysis. Professor Ponce has created and instructed a variety of GIS and Remote Sensing and Spatial Analysis and Statistics courses taught at undergraduate and graduate level in the Environmental Program and the Department of Geography at Trent University.

Znamirowski, Barbara

Head, Maps, Data and Government Information Centre, Trent University Library

Barbara Znamirowski holds an Honours BA from Queen's University and a Master of Library Sciences from Dalhousie University. As Head of MaDGIC, Barbara responds to researchers' and teachers' geospatial and statistical information needs, while promoting campus geomatics literacy. Barbara works closely with a number of Canadian universities on geospatial data access initiatives, and has recently returned from a sabbatical leave which included working with data and GIS experts at the Harvard University Map Collection. Barbara is responsible for negotiating and overseeing Trent site license agreements for geospatial and statistical data, and serves as Trent University's ESRI site license administrator and as liaison between the Ontario Council of University libraries Map Group and the Ontario Ministry of Natural Resources. She has been appointed to several national and provincial boards and committees fostering data partnerships and geomatics literacy including Statistics Canada's Data Liberation Initiative's External Advisory Board and the Ontario Scholars Portal Geospatial and Health Data Technical Working Group and External Advisory Board.