

Technical Excellence Update

2013 calendar year
(sorted alphabetically by publication author)

I am pleased to present the *Technical Excellence Update* for the 2013 calendar year, which showcases the public domain publications and presentations available through SRC. This version is sorted alphabetically by the publication author.

SRC continues to be an innovative research and development organization with a focus on the mining and minerals and energy sectors and the environmental considerations that are important across both. Our employees have a wide range of experience and scientific expertise, enabling SRC to meet unique and varied client needs.

SRC technical specialties include, but are not limited to:

Natural Sciences

biology, chemistry, computing science, geology, math, physics, etc.

Engineering

chemical, civil, industrial, mechanical, metallurgical, petroleum, etc.

Management Sciences

business administration, business disruption/resumption management, commerce, facilities management, information technology, marketing and communications, law, risk management, safety, etc.

Visit our website at www.src.sk.ca for additional calendar year updates.

*Laurier L. Schramm
President and CEO
July 2014*

- Ahmadloo, F., K. Ashghari, A. Henni and N. Frietag, (2013), *Experimental Investigation of Capillarity and Drainage Height Roles in the Vapor Extraction Process*, Journal Article, Petroleum Science and Technology, Volume 31, Issue 2, p. 204-214
- Allen, D., (2013), *Lessons Learned in Remediating Satellite Uranium Mines*, Conference Presentation, Remediation Technologies Symposium 2013, Banff, AB
- Allen, D., I. Wilson and T. Yankovich, (2013), *Athabasca Basin Community Meetings – CLEANs Update*, Presentation, Uranium City, SK, Fond du Lac, SK, Black Lake, SK, Hatchet Lake, SK and Stony Rapids, SK
- Anweiler, D., (2013), *SRC Puts Natural Waste to Use*, Advertorial, Innovation Place's The Scene
- Beaulieu, C. and V. Wittrock, (2013), *Climate Reference Station Conservation Learning Centre - Annual Summary 2012*, Research Report, Saskatchewan Research Council, Saskatoon, SK, 20 pp., SRC Publication: 13000-1E13
- Beaulieu, C. and V. Wittrock, (2013), *Climate Reference Station Saskatoon - Annual Summary 2012*, Research Report, Saskatchewan Research Council, Saskatoon, SK, 47 pp., SRC Publication: 10440-1E13
- Calette, M., (2013), *Community Engagement: The Process Can Be Very Rewarding - If You Want To Do What It Takes*, Presentation, Federal Contaminated Sites Workshop, Ottawa, ON
- Calette, M., (2013), *SRC Strives to Maximize Benefits for Northern Residents During Athabasca Abandoned Mine Cleanups*, Article/Interview, Eagle Feather News
- Calette, M. and D. Allen, (2013), *Project CLEANs Update*, Presentation, Athabasca Sector Meeting of the Prince Albert Grand Council, Black Lake, SK
- Clay, T.A. and F.J. Sharom, (2013), *Multidrug Resistance Protein: P-glycoprotein*, Invited Book Chapter, In G. You and M. Morris (Eds.), *Drug Transporters: Molecular Characterization and Role in Drug Disposition*, 2nd edition. Wiley and Sons, Inc: New York, NY
- Collett, D., (2013), *Are High Levels of Radon Lurking in Your Basement?*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/environment/radon-testing/>
- Crabtree, M., (2013), *What is Petroleum and Where Does it Come From?*, Article/Interview, The Leader Post
- Ganeshan S., P.M. Gaur and E.N. Chibbar, (2013), *Pulse Crops: Biotechnological Strategies to Enhance Abiotic Stress Tolerance*, Online Research Article, In: Tuteja N., Gill S. S. and Tuteja R. (eds.), *Improving Crop Productivity in Sustainable Agriculture*, Wiley-VCH Verlag GmbH & Co., Weinheim, Germany, p. 423-448
- Godwin, B., V. Wittrock and J. Thorpe, (2013), *Ecosystem-Based Surface Water Quantity Management Plan for Moose Mountain Provincial Park*, Research Report, Prepared for the Saskatchewan Ministry of Parks, Culture and Sport, 92 pp., SRC Publication: 13413-1E13
- Gotto, R., (2013), *Carbon Footprinting: The Growing Pressure to Go Green*, Editorial, Business Saskatoon; Business Regina
- Gotto, R., (2013), *Finding Innovative Solutions for the Oil and Gas Industry*, Magazine Article, Saskatchewan Oil Report 2013, p. 82-85; http://issuu.com/delcomminc/docs/saskoilreport_2013
- Gotto, R., (2013), *Impact Reporting: A Growing Trend Among Businesses*, Editorial, Business & Industry North Sask; Business & Industry South Sask
- Gotto, R., (2013), *SRC Provides World-Class Potash Services*, Editorial, Potash Works Magazine
- Gotto, R., (2013), *What's in Your Water?*, Editorial, Business & Industry North Sask; Business & Industry South Sask
- Gotto, R., (2013), *Evolving to Meet the Needs of Industry*, Advertorial, Canadian Mining Journal
- Hashemi, R., (2013), *Study of Solid-Liquid Fluidized Bed Using Electrical Impedance Tomography*, Conference Presentation, The 7th World Congress on Industrial Process Tomography, Krakow, Poland
- Hashemi, R., (2013), *Study of the Dynamic Behavior of a Solid-Liquid Fluidized Bed Using High Speed Electrical Impedance Tomography*, Conference Presentation, International Conference on Multiphase Flow 2013 (ICMF2013), Jeju, South Korea
- Hill, S., (2013), *Alternative Energy: The Future*, Article/Interview, Pipeline News
- Hursky, R., (2013), *Mayor Touts HOV Commuter Lanes*, Article/Interview, The StarPhoenix
- Imran, M., K.D. Knorr and P. Jia, (2013), *Advanced Numerical Simulation of Solvent Vapour Extraction (SVX) Processes*, Conference Proceedings, Society of Petroleum Engineers (SPE) Heavy Oil Conference Canada 2013, Calgary, AB, SPE 165522-MS: Volume 3, ISBN: 9781627486286
- Jansen, R., M. Sulatisky, A. Farber and D. Muyres, (2013), *Demonstration of a Utility Scale Lithium-Ion Battery System with a Wind Turbine*, Conference Proceedings and Presentation, Electrical Energy Storage Applications and Technologies (EESAT) 2013 International Conference, San Diego, CA
- Johnston, M., (2013), *An Overview of Adaptation Planning in the Canadian Forest Sector*, Presentation, Canadian Council of Forest Ministers Workshop, Edmonton, AB
- Johnston, M., (2013), *Climate Change and Canadian Forests: An Emerging Synthesis*, Invited Lecture, University of Saskatchewan School of Environment and Sustainability, Saskatoon, SK; Renewable Power the Intelligent Choice Community Group, Prince Albert, SK; Class Lecture for Renewable Resource Management 321, Soil Science Department, University of Saskatchewan; Saskatoon, SK
- Johnston, M., (2013), *Forest Management in Canada: Policy and Practice*, Presentation, Class Lecture for Geography 385, Geography Department, University of Saskatchewan, Saskatoon, SK
- Johnston, M., T. Williamson and L. Joyce, (2013), *Climate Change Adaptation in the North American Forest Sector*, Presentation, Project MOTIVE, Freiburg, Germany
- Klyashatorin, A., (2013), *Forest Management in the Territories Contaminated Due to the Chernobyl Accident*, Workshop Presentation, IAEA Cooperation Project in Fukushima Prefecture, Fukushima
- Knorr, K.D., (2013), *SRC's Unique Capabilities in Enhanced Oil Recovery Research*, Conference Presentation, GO-EXPO, Calgary, AB
- Knorr, K.D. and M. Imran, (2013), *Effect of Dead Oil Viscosity and Injected Solvent Type on SVX Process Performance*, Conference Proceedings, Society of Petroleum Engineers (SPE) Heavy Oil Conference Canada 2013, Calgary, AB, SPE 165454-MS; Volume 2, ISBN: 9781627486286
- Kulshreshtha, S. and E. Wheaton, (2013), *Climate Change Adaptation and Food Production in Canada: Some Research Challenges*, Presentation and Conference Proceedings, Food and Environment 2013 Conference; Budapest, Hungary, 2nd International Conference on Food and Environment 2013, the Quest for a

- Sustainable Future, Wessex Institute of Technology (WIT), WIT Transactions on Ecology and Environment, Volume 70, WIT Press, Southampton, UK, 40 slides, p. 101-111
- Kulshreshtha, S. and E. Wheaton, (2013), *Climate Change and Canadian Agriculture: Some Knowledge Gaps*, Journal Article, International Journal of Climate Change: Impacts and Responses Volume 4(2):127-148
- Luo, P., (2013), *CO2 Best Choice for Squeezing More Out of Saskatchewan Bakken*, Article/Interview, Pipeline News
- Luo, P., (2013), *Geochemical and Geophysical Implications of CO₂ Flooding for Bakken Reservoirs*, Presentation, 21st Williston Basin Petroleum Conference, Regina, SK
- Luo, P., V. Er, N. Freitag and S. Huang, (2013), *Recharacterizing Evolving Fluid and PVT Properties of Weyburn Oil–CO₂ System*, Journal Article, International Journal of Greenhouse Gas Control, Volume 16 (1), S226–S235
- Luo, P., Y. Wu and S. Huang, (2013), *Optimized Surfactant–Polymer Flooding for Western Canadian Heavy Oils*, Conference Presentation, SPE Heavy Oil Conference Canada, Calgary, AB, Paper SPE 165396-MS
- Luo, P., Y.P. Zhang and S. Huang, (2013), *A Promising Chemical-Augmented WAG Process for Enhanced Heavy Oil Recovery*, Journal Article, Fuel, Volume 104, p. 333–341
- McGilp, L., (2013), *Innovation Through the Lens of an Engineer*, Article, APEGS, The Professional Edge
- McKibben, M., R. Gillies and S. Sanders, (2013), *A New Method for Predicting Friction Losses and Solids Deposition during the Water-Assisted Pipeline Transport of Heavy Oils and Co-Produced Sand*, Presentation and Conference Proceedings, Copyright 2013, Society of Petroleum Engineers, SPE 13HOCC-P-380-SPE; Prepared for the SPE Heavy Oil Conference Canada, Calgary, AB
- Moody, M., (2013), *Assessment of Contaminated Soil in the Canadian Boreal Forest Using Standardized Toxicity Testing*, Presentation, 2013 Remediation Technologies Symposium (RemTech), Banff, AB
- Moody, M., (2013), *Assessment of Soils from a Northern Alberta Marsh using Three Wetland Plants*, Research Report, Prepared for WorleyParsons
- Moody, M., (2013), *Development and Standardization of Plant Toxicity Methods for Assessment of Contaminated Soils Using Wetland Species: Year 4*, Research Report, SRC Publication 11627-2E13
- Moody, M., (2013), *Eco-toxicity Testing of Central Alberta Soils Using Upland Boreal Forest Plants*, Research Report, Prepared for EBA Engineering Consultants
- Moody, M., (2013), *How a New Toxicity Test Will Help Protect Canada's Boreal Forest*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/environment/new-toxicity-test/>
- Moody, M. and R. Scroggins, (2013), *Application of a Plant Toxicity Test in Alberta Wetland Sites*, Invited Speaker, Petroleum Technology Alliance of Canada (PTAC) Conference 2013, Calgary, AB
- Moody, M. and R. Scroggins, (2013), *Development of a Plant Toxicity Test using Species Native to Canadian Boreal Wetlands*, Invited Presentation, 23rd Annual Meeting of Society of Environmental Toxicology and Chemistry (SETAC) Europe 2013, Glasgow, Scotland, SRC Publication: 11627-3D13
- Moody, M., B. Godwin, J. Miller and R.Scroggins, (2013), *Biological Test Method: Test for Growth in Contaminated Soil Using Terrestrial Plants Native to the Boreal Region*, Manual, Prepared for Environment Canada, Cat. No.: En49-7/1-56E; ISBN: 978-1-100-22420-6
- Muldoon, J., L.L. Schramm and T. Yankovich, (2013), *Gunnar Uranium Mine Environmental Remediation - Northern Saskatchewan*, Presentation, ICEM 2013 15th International Conference on Environmental Remediation and Radioactive Waste Management, Brussels, Belgium, ISBN: 978-0-7918-5602-4, # ICEM2013-96223, V002T04A013; 10 pp.
- Murray, C., (2013), *A New Plant in the Prairies*, Magazine Article/Interview, CIM Magazine
- Murray, C., (2013), *Making the Most of Minerals*, Article/Interview, Canadian Chemical News
- Murray, C., (2013), *Member Profile: Craig Murray*, Article/Interview, APEGS, The Professional Edge
- Murray, C., (2013), *New Mineral Processing Plant to Open at SRC*, Interview, Saskatchewan Mining Journal
- Murray, C., (2013), *Saskatchewan: The Have-Not Province Now Has It All*, Magazine Article/Interview, Engineering and Mining Journal
- Murray, C., (2013), *SRC Offers New Mining Analysis Service*, Article/Interview, The StarPhoenix; Leader Post
- Murray, C., (2013), *State of the Art Mineral Processing in Saskatoon*, Interview, Industrial Minerals Magazine
- Nyirfa, W. and R. Hursky, (2013), *Development of the Competitive Intelligence Program at the Saskatchewan Research Council*, Presentation, 4th Innoventures Canada Innovation School™, Toronto, ON
- Payne, B., (2013), *Saskatchewan Farmers Adopting Midge Tolerant Wheat*, Article/Interview, The Western Producer
- Petelina, E., A. Klyashtorin and T. Yankovich, (2013), *Biochar Application for Revegetation Purposes in Northern Saskatchewan*, Conference Paper and Presentation, Overcoming Northern Challenges. Proceedings of the 2013 Northern Latitudes Mining Reclamation Workshop and 38th Annual Meeting of the Canadian Land Reclamation Association, Whitehorse, YT
- Pittman, J., V. Wittrock, E. Wheaton, B. Brodie and T. Harrison, (2013), *Mining and Climate Change in the Qu'Appelle Watershed*, Invited Presentation, Saskatchewan Mining Association Environmental Committee Meeting, Saskatoon, SK, Prepared for the Water Security Agency of Saskatchewan, 18 slides, SRC Publication: 13462-6D13
- Price, D.T., R.I. Alfaro, K.J. Brown, M.D. Flannigan, R.A. Fleming, E.H. Hogg, M.P. Girardin, T. Lakusta, M. Johnston, D.W. McKenney, J.H. Pedlar, T. Stratton, R.N. Sturrock, I.D. Thompson, J.A. Trofymow and L.A. Venier, (2013), *Anticipating the Consequences of Climate Change for Canada's Boreal Forest Ecosystems*, Journal Article, Environmental Reviews 21: 322–365
- Reid, C., (2013), *The Beauty of Northern Saskatchewan: My Other Office*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/environment/my-other-office/>
- Renouf, G., (2013), *A Survey of Polymer Flooding in Western Canada*, Conference Proceedings, IEA EOR Conference, Stavanger, Norway
- Sanscartier, D., (2013), *Life Cycle Assessment*, Presentation, Environmental Services Branch, City of Saskatoon, SK

- Sanscartier, D., (2013), *Life Cycle Assessment of Willow Pellet Co-firing in a Coal Power Plant in Saskatchewan*, Presentation, Canadian Society of Bioengineering Conference, Saskatoon, SK
- Sanscartier, D., B. Deen, G. Dias, H. Dadfar, H.L. McLean, I. McDonald and H. Kludze, (2013), *Implications of Land Class and Environmental Factors on Life Cycle GHG Emissions of Miscanthus as a Bioenergy Feedstock*, Abstract/Online Journal Article, onlinelibrary.wiley.com/doi/10.1111/gcbb.12062/abstract; GCB Bioenergy, onlinelibrary.wiley.com/rss/journal/10.1111/(ISSN)1757-1707
- Schramm, L.L., (2013), *What is the Role of RTO's in Innovation?*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-what-is-the-role-of-rtos-in-innovation/>
- Schramm, L.L., (2013), *What is this "Innovation" Everyone is Talking About?*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-what-is-innovation/>
- Schramm, L.L., (2013), *Where Does Innovation Begin?*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-where-does-innovation-begin/>
- Schramm, L.L., (2013), *Who Actually Does Innovation?* SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-who-actually-does-innovation/>
- Schramm, L.L., (2013), *Why Should People Care About Innovation?*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-why-should-people-care-about-innovation/>
- Schramm, L.L., (2013), *Why You Shouldn't Fear the Valley of Death*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/innovation/innovation-insight-valley-of-death/>
- Schramm, L.L. and E.E. Isaacs, (2013), *Development of In Situ Oil Sands and Heavy Oil Reservoirs in Canada*, Journal Publication, In Handbook on Theory and Practice of Bitumen Recovery from Athabasca Oil Sands, Volume 2 Industrial Practice, Czarnecki, J.; Masliyah, J.; Xu, Z.; Dabros, M. (Eds.), Alberta Innovates-Energy and Environment Solutions: Edmonton, AB, p. 603-636
- Schramm, L.L. and W. Nyirfa, (2013), *Outcome and Impacts: SRC's Impact Audit Process*, A Case Study, Presentation, 4th Innoventures Canada (I-CAN) Innovation SchoolTM, Toronto, ON
- Sharma P., S. Ganeshan , D.B. Fowler and R.N. Chibbar, (2013), *Characterisation of Two Wheat Enolase cDNA Showing Distinct Patterns of Expression in Leaf and Crown Tissues of Plants Exposed to Low Temperature*, Online Research Article, Annals of Applied Biology, Volume 162, Issue 2, p. 271-283
- Shcheglov, A., O. Tsvetnova and A. Klyashtorin, (2013), *The Fate of Cs-137 in Forest Soils of Russian Federation and Ukraine Contaminated Due to the Chernobyl Accident*, Online Journal Article, Journal of Geochemical Exploration; <http://www.sciencedirect.com/science/article/pii/S037567421300112X>
- Smeh, D., G. Koshida, E. Wheaton, V. Wittrock and E. Siemens, (2013), *A Guide for Evaluating Water Shortage Adaptation Options Available for Ontario Agriculture*, Abstract, In Regier, R. and T. Hadwen, *Advancing Drought Monitoring in Canada: The North American and Canadian Drought Monitor Workshop*, Guelph ON; Agriculture and Agri-Food Canada, Regina, SK and Saskatchewan Research Council, Saskatoon, SK, SRC Publication: 11228-1A13
- Sohani, S., (2013), *Successful and Safe Demolition of Structures on an Abandoned Uranium Mine Site in Saskatchewan's North*, Presentation, Canadian Society of Safety Engineers (CSSE) Annual Conference, Montreal, QC; CSSE's Northern Light Chapter Meeting, Saskatoon, SK
- Spelay, R., (2013), *A Quick Guide to the Slurry Pipeline Systems Course*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/mining/a-quick-guide-to-the-slurry-pipeline-systems-course/>
- Spelay, R., S.A. Hashemi, R. Gillies, R. Hegde, R.S. Sanders and D.G. Gillies, (2013), *Governing Friction Loss Mechanisms and the Importance of Offline Characterization Tests in the Pipeline Transport of Dense Coarse-Particle Slurries*, Conference Proceedings, ASME Proceedings, 13th International Symposium on Liquid-Solids Flows, Paper No. FEDSM2013-16464, 7 pp.
- Veerabhadrapa, S., A. Doda, J.J. Trivedi and E. Kuru, (2013), *On the Effect of Polymer Elasticity on Secondary and Tertiary Oil Recovery*, Online Journal Article, Industrial & Engineering Chemistry Research, Volume 52 (51), p. 18421-18428; <http://dx.doi.org/10.1021/ie4026456>
- Wheaton, E., (2013), *Agriculture in New Climates*, Invited Presentation, Citizens' Hearing on Climate Change, Saskatoon, SK, 18 slides
- Wheaton, E., (2013), *Future Risks of Wet and Dry Climate Extremes in Saskatchewan*, Canada, Invited Presentation, Mining and Climate Extremes Group, Regina, SK, Prepared for the Water Security Agency of Saskatchewan, Saskatoon, SK, 14 slides
- Wheaton, E., (2013), *How Can Agriculture Deal with the Risks and Benefits of a Changing Climate?*, Invited Presentation, Renewable Power Intelligent Choice, Prince Albert, SK, 26 slides
- Wheaton, E., (2013), *Risks and Benefits for Agriculture of a Changing Climate*, Invited Presentation, Prepared for the Prince Albert Model Forest Board, Prince Albert, SK, 17 slides
- Wheaton, E., (2013), *Risks of Climate Extremes to Mining: A Work Plan*, Presentation, Prepared for the Water Security Agency of Saskatchewan for the Mining and Climate Extremes Advisory Group Meeting, Regina, SK, 5 slides
- Wheaton, E., (2013), *Risks of Dry and Wet Extremes in Southeast Saskatchewan: A Fact Sheet*, Technical Report, Prepared for the Watershed Security Agency of Saskatchewan, Regina, SK, 3 pp.
- Wheaton, E., (2013), *Risks to Potash Mining Posed by Droughts in Southeast Saskatchewan*, Technical Report, Prepared for the Watershed Security Agency of Saskatchewan, Regina, SK, 23 pp.
- Wheaton, E., (2013), *What Risks to Potash Mining are Posed by Droughts?*, Presentation, Prepared for the Watershed Security Agency of Saskatchewan, Regina, SK, 14 slides
- Wheaton, E. and S. Kulshreshtha, (2013), *Agriculture and Climate Change: Implications for Environmental Sustainability Indicators*, Presentation and Conference Proceedings, In A.M. Marinov and C. A. Bebbia (editors), *Ecosystems & Sustainable Development IX*, ECOSUD 2013 Conference, Bucharest, Romania; 9th International Conference on Ecosystems and Sustainable Development, Wessex Institute of Technology, WIT Press, Southampton, Boston, MA, p. 99-110, 25 slides
- Wheaton, E. and V. Wittrock, (2013), *Crop Yields, Groundwater and Climate Extremes: An Overview of 2012-2013 Progress Report for VACEA*, Invited Presentation, Vulnerability and Adaptation to Climate Extremes in the Americas (VACEA) Team Meeting, Regina, SK, 9 slides, SRC Publication: 13224-4D13

- Wheaton, E., B. Bonsal and V. Wittrock, (2013), *Climate Extremes, Crops and Water: VACEA Progress*, Invited Presentation, Vulnerability and Adaptation to Climate Extremes in the Americas (VACEA) Canadian Team Meeting, Regina, SK, 5 slides, SRC Publication: 13224-5D13
- Wheaton, E., B. Bonsal and V. Wittrock, (2013), *Future Possible Dry and Wet Extremes in Saskatchewan, Canada*, Research Report, Prepared for the Water Security Agency of Saskatchewan and Saskatchewan Research Council, Saskatoon, SK, 35 pp., SRC Publication: 13462-1E13
- Wicks, J., (2013), *In the Tune of Gasification: Recording Studio Powered by Wood Debris*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/energy/in-the-tune-of-gasification/>
- Wilson, I., T. Yankovich, D. Allen and/or M. Calette, (2013), *Project Update to Community*, Presentation, Various Presentations at Community Meetings, Sector Gatherings, etc. at Saskatchewan locations including: Black Lake, Stony Rapids, Fond du Lac, Uranium City, Hatchet Lake, Saskatoon and Prince Albert
- Wismer, M. and E. Powell, (2013), *Pathways for the Bio-economy in Saskatchewan*, Presentation, CanBio Workshop on Canada's Prairie Bio-economy, Saskatoon, SK
- Wittrock, V., (2013), *Characterization of Historic Drought and Excessive Moisture in the Qu'Appelle River Watershed*, Research Report, Prepared for Water Security Agency of Saskatchewan as part of the Natural Resource Canada Research Project Topic 3.3 - Case Studies of Mining Sector Adaptation Actions, 68 pp., SRC Publication: 13462-5E13
- Wittrock, V., (2013), *Characterization of Historic Drought and Excessive Moisture in the Qu'Appelle River Watershed*. A Preliminary Examination, Presentation, Prepared for the Water Security Agency, 20 slides, SRC Publication: 13462-2D13
- Wittrock, V., (2013), *Climate Variability Now and in the Future*, Presentation, Prepared for Beardy's and Okemasis First Nation Community Workshop on Climate Change, 37 slides, SRC Publication: 13388-1D13
- Wittrock, V., (2013), *Hydrologic Model Assessment for Usage on the Beardy's and Okemasis First Nation, SK*, Research Report, Prepared for the Beardy's and Okemasis First Nation as part of the Aboriginal Affairs and Northern Development Canada Climate Change Adaptation Program, 26 pp., SRC Publication: 13388-2E13
- Wittrock, V., (2013), *Past, Present and Future Vulnerability and Risk Assessment to Climatic Extremes for Potash Mines in the Qu'Appelle River Watershed: Literature Review*, Research Report, Prepared for Water Security Agency of Saskatchewan as part of the Natural Resource Canada Research Project Topic 3.3 - Case Studies of Mining Sector Adaptation Actions, 33 pp., SRC Publication: 13462-6E13
- Wittrock, V., (2013), *Risks to Mining Companies Related to Extreme Climate Events - A Work Plan*, Presentation, Prepared for the Water Security Agency, 6 slides, SRC Publication: 13462-3D13
- Wittrock, V., (2013), *Sask. 2013 Spring Long, Cold, Wet*, Article/Interview, The Western Producer
- Wittrock, V., (2013), *Snowfall Above Average, Not Record Breaking*, Article/Interview, The StarPhoenix
- Wittrock, V., (2013), *Then and Now 50 years of Saskatchewan Research Council's Climate Reference Station*, Presentation, Invited Guests and CMOS/CWRA/CGU Congress Delegates, 50th Anniversary Celebration at the CRS, Saskatoon, SK, 53 slides, SRC Publication: 10440-2D13
- Wittrock, V. and C. Beaulieu, (2013), *Climate Trends Over the Last 50 Years: Celebrating 50 Years of CRS*, Presentation, Invited Guests and CMOS/CWRA/CGU Congress Delegates, 50th Anniversary Celebration at the CRS, Saskatoon, SK, 12 slides, SRC Publication: 10440-3D13
- Wittrock, V. and C. Beaulieu, (2013), *The 2012 Climate at the Conservation Learning Center*, Invited Presentation, CLC Open House, Prince Albert, SK, 14 slides, SRC Publication: 13000-2D13
- Wittrock, V. and SRC Development Engineering and Manufacturing Business Unit, (2013), *Safety Safety Safety Yes, Even Climate Reference Stations Can Be Hazardous*, Presentation, SRC Innovation Forum, Saskatoon, SK, 19 slides, SRC Publication: 13613-1D13
- Wittrock, V., K. Babich, N. Peter and K. Young, (2013), *Innovative Safety Augmentation Mid-year Progress Report*, Limited Report, Prepared for SRC Innovation Fund, Saskatoon, SK, 11 pp., SRC Publication: 13613-2E13
- Yankovich, T., (2013), *Environmental Remediation: Recovering Our History for a Cleaner Future*, Interview/Editorial, Business Saskatoon Magazine; Business Regina Magazine
- Yankovich, T., (2013), *Innovative Remediation: Cleanup of Abandoned Northern Sites*, Interview, Saskatchewan Mining Journal
- Yankovich, T. and A. Klyashtorin, (2013), *Options Evaluation for Remediation of the Gunnar Site Using a Decision-Tree Approach*, Conference Presentation, Remediation Technologies Symposium 2013, Banff, AB
- Yuzik, A., (2013), *Leveraging Intelligence Sources – How Google Trends Can Inform Your Intelligence Program*, SRC Internet Blog, "From the Lab to the Loading Dock"; <http://blog.src.sk.ca/business-insight/intelligent-business-google-trends/>
- Zhang, J. and C. Edwards, (2013), *Mineral Decomposition and Leaching Processes for Treating Rare Earth Ore Concentrates*, Journal Article, Canadian Metallurgical Quarterly, Volume 52, No.3, p. 243-248,
- Zhang, J. and C. Edwards, (2013), *Review of Rare Earth Mineral Processing Technology*, Journal Article, CIM Journal, Volume 4, No.1, p. 1-22
- Zimmer, C., (2013), *Commuter Challengers and Leaders in Tourism*, Article/Interview, The StarPhoenix
- Zimmer, J. and B. Stanek, (2013), *Using a Nuclear Reactor as a Remediation Tool*, Presentation, RemTech Conference, Banff AB
- Zimmer, J., B. Stanek, W. Yuen and D. Chorney, (2013), *Testing and Monitoring of Radiologicals in Drinking Water*, Presentation, 96th Canadian Chemistry Conference and Exhibition, Quebec City, QC

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