

# Technical Excellence Update

2010 calendar year  
(sorted alphabetically by publication author)

I am pleased to present the *Technical Excellence Update* for the 2010 calendar year, which showcases the public domain publications and presentations available through SRC. This version is sorted alphabetically by the publication author.

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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.

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*Laurier L. Schramm  
President and CEO  
September 2011*

# SRC

- Ahmadloo, F., K. Asghari and G. Renouf. (2010), *New Diagnostic Tool for Performance Evaluation of Heavy Oil Waterfloods: Case Study of Western Canadian Heavy Oil Reservoirs*, Journal Article, North America Regional Meeting, Anaheim CA, Society of Petroleum Engineers (SPE) Paper No 133407
- Amichev, B., M. Johnston and K. Van Rees. (2010), *Hybrid Poplar Growth in Bioenergy Production Systems: Biomass Prediction with a Simple Process-Based Model (3PG)*, Journal Article, Biomass and Bioenergy, Volume 34, Issue 5, p. 687-702
- Anweiler, D. (2010), *Flax Straw for Biomass Gasification, The Path Ahead: New Flax Products*, Invited Presentation, Flax Day Conference 2010, Saskatoon, SK
- Anweiler, D. (2010), *SRC's Biomass Gasification Project*, Presentation, The Canadian Institute's Gasification Conference, SRC Publication Number: 12248-1D10
- Beaulieu, C. (2010), *Climate of Saskatoon*, Invited Presentation, South Corman Park School, Corman Park, SK
- Beaulieu, C. (2010), *Demonstration of Weather Instruments*, Invited Presentation, South Corman Park School, Corman Park, SK
- Beaulieu, C. and E. Wheaton. (2010), *Examination of Climate Trends and Extremes: A Saskatoon Case Study*, Presentation, Prepared for the Adaptation and Impacts Research Division, Environment Canada; Saskatchewan Research Council, 34 slides, SRC Publication Number: 12829-14D10
- Beaulieu, C. and E. Wheaton. (2010), *Examination of Climatic Trends and Extremes: A Case Study of Saskatchewan Research Council's Climate Reference Station at Saskatoon, Saskatchewan*, Research Report, Prepared for Environment Canada, Adaptation and Impacts Research Division, Environment Canada, 61 pp., SRC Publication Number: 12624-16E09
- Beaulieu, C. and V. Wittrock. (2010), *Climatological Reference Station Saskatoon, Annual Summary, 2009*, Research Report, Saskatchewan Research Council, 57 pp., SRC Publication Number: 10440-1E10
- Bonsal, B., E. Wheaton and E. Siemens. (2010), *Characterizing the Surface Dynamics of Canadian Prairie Droughts*, Presentation and Abstract, Water 2010: Hydrology, Hydraulics and Water Resources in an Uncertain Environment, Quebec City, QC; Tenth Symposium on Stochastic Hydraulics, Fifth International Conference on Water Resources and Environment Research, 28 slides, SRC Publication Number: 11602-3D10; Abstract SRC Publication Number: 11602-4E10
- Bonsal, B., E. Wheaton, A. Chipanshi, C. Lin, D. Sauchyn and L. Wen. (2010), *Drought Research in Canada: A Review*, Scientific Journal, Atmosphere-Ocean, SRC Publication Number: 11602-1A11
- Bonsal, B., E. Wheaton, E. Siemens and A. Meinert. (2010), *2009 DRI Progress Report. Characterizing the Surface Dynamics of the 1999-2005 Canadian Prairie Drought*, Research Report, Prepared for the Canadian Foundation for Climate and Atmospheric Sciences; Saskatchewan Research Council, 16 pp., SRC Publication Number: 11602-1E10
- Bonsal, B., E. Wheaton, V. Wittrock, E. Siemens and N. Nicolichuk. (2010), *Everyone is Affected: Selections of Drought Impacts and Adaptations*, Invited Presentation, University of Saskatchewan, Environment Canada, Saskatchewan Research Council, Canadian Foundation for Climate and Atmospheric Sciences, Drought Research Initiative, presented at Canada Drought Research Initiative Workshop, Winnipeg, MB, 21 slides, SRC Publication Number: 11602-1D10
- Creighton, S. (2010), *Meeting Industry's Needs - Innovative Microanalysis Centre Offers Extensive Analytical Solutions*, Journal Article, CIM Magazine, November 2010, Volume 5, Issue No. 7, p. 52-53
- Dubé, M., M. Johnston, E. Wheaton, K. Wallace, A. Harwood and V. Wittrock. (2010), *Development of a Framework for Cumulative Effects Assessment and an Ecological Monitoring Plan for Northwest Saskatchewan*, Research Report, Prepared for Ministry of Environment, Government of Saskatchewan, 57 pp., SRC Publication Number: 12782-1E10
- Er, V. (2010), *Use of Biodiesel as an Additive in Thermal Recovery of Heavy Oil and Bitumen*, Journal Article, Journal of Canadian Petroleum Technology, Volume 49 (11), 43-48
- Fiebig-Wittmaack, M., A. Orlando, E. Wheaton, V. Wittrock, C. Perez and A. Ibacache. (2010), *Climatic Trends and Impact of Climate Change on Agriculture in an Arid Andean Valley*, Journal Article, Climatic Change
- Freitag, N.P. (2010), *Evidence that Naturally Occurring Inhibitors Affect the Low-Temperature Oxidation Kinetics of Heavy Oil*, Journal Article, Journal of Canadian Petroleum Technology, 49 (7), 36-41
- Friesen, A. (2010), *Fermentation Process Development*, Invited Presentation, Partners in BioMedical Defence II Meeting, Canadian Embassy, Washington, DC
- Friesen, A. (2010), *Selecting a Contract Research Partner to Help Your Biopharmaceutical Process Development*, Journal Article, Biotechnology Focus and Bioscienceworld Website: <http://www.bioscienceworld.ca/Selectingacontractresearchpartnertohelpyourbiopharmaceuticalprocessdevelopment>
- Gillies, D., R.S. Sanders and R.G. Gillies. (2010), *Improved Predictions of the Kinematic Friction Losses in Slurry Pipelines*, Presentation, 60th Canadian Chemical Engineering Conference, Saskatoon, SK
- Gillies, D., R.S. Sanders and R.G. Gillies. (2010), *Determining the Maximum Coarse Particle Concentration for Slurry Pipeline Flows*, Conference Presentation and Journal Article, 18th International Conference on Hydrotransport, Rio de Janeiro and Proceedings Hydrotransport Conference 18, BHR Group, p. 105-115
- Grewal, T.S., B.G. Rossnagel and G.J. Scoles. (2010), *Validation of Molecular Markers Associated with Net Blotch Resistance and Their Utilization in Barley Breeding*, Research Article, Crop Science 50:1:177-184
- Guo, Z. (2010), *An Integrated Engineering Solution in Treating Tailings Pond Water from Alberta's Oil Sand Industry*, Conference Paper and Presentation, 2nd International Oil Sands Tailings Conference, Edmonton, AB, p. 293-307
- Hadarits, M., V. Wittrock, S. Kulshreshtha, E. Wheaton and J. Pittman. (2010), *Rural Community Vulnerability to Extreme Climatic Events*, Invited Presentation, Agriculture and Agri-Food Canada, Saskatchewan Research Council, University of Saskatchewan, Saskatchewan Watershed Authority, Swift Current Creek Watershed Stewards, Swift Current Creek Drought Preparedness Workshop, Swift Current, SK, 40 slides, SRC Publication Number: 11899-3D10
- Hadarits, M., V. Wittrock, S. Kulshreshtha, E. Wheaton J. Pittman and C. Kayter. (2010), *Rural Community Vulnerability to Drought*, Invited Presentation, SK Association of Watersheds' Drought Preparedness Meeting, Agriculture and Agri-Food Canada, Saskatchewan Research Council, University of Saskatchewan, 23 slides, SRC Publication Number: 11899-4D10
- Henderson, N. and J. Thorpe. (2010), *Ecosystems and Biodiversity*, Book Chapter, Chapter 6 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- James, C. (2010), *Thermal Systems Design*, Invited Presentation, Department of Mechanical Engineering, University of Saskatchewan, Saskatoon, SK
- Johnston, M. (2010), *Climate Change and Prairie Provinces Forests*, Invited Presentation, Prairies Regional Adaptation Collaborative Forum: Changing Prairie Climate: The Big Picture and Adaptation Opportunities and Challenges in Calgary; Calgary, AB,
- Johnston, M. (2010), *Tourism and Recreation*, Book Chapter, Chapter 22 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- Johnston, M. (2010), *Vulnerability to Climate Change in Manitoba's Forests*, Presentation, Prairie Regional Adaptation Collaborative Workshop, Winnipeg, MB
- Johnston, M. and E. Wheaton. (2010), *Environmental Research*, Invited Presentation, Environmental Round Table
- Johnston, M. and T. Williamson. (2010), *Island Forests in Central Saskatchewan*, Book Chapter, Chapter 24 in Sauchyn, D., P. Diaz and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- Johnston, M. and T. Williamson. (2010), *Vulnerability of Forest Management to Climate and Climate Change in the Canadian Prairies*, Book Chapter, Chapter 8 in Sauchyn, D., P. Diaz and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- Johnston, M., T. Williamson, A. Munson, A. Ogden, M. Moroni, R. Parsons, D. Price and J. Stadt. (2010), *Climate Change and Forest Management in Canada: Impacts, Adaptive Capacity and Adaptation Options. A State of Knowledge Report*, Research Report, Sustainable Forest Management Network, Edmonton, AB, 58 pp.
- Keough, K., M. Deo, G. Poling, L.L. Schramm and I. Wiehe. (2010), *Outcome Measurement Study: Expert Panel Report*, Research Report, Report of the OMS Expert Panel on Oil Sands, Canada Foundation for Innovation, Ottawa, ON, 56 pp.
- Koshida, G., E. Wheaton and V. Wittrock. (2010), *Assessing Water Adaptations and Determining Coping Ranges to the 2001-2002 Canadian Drought*, Abstract, American Water Resources Association 2011 Spring Specialty Conference on Managing Climate Change Impacts on Water Resources: Adaptation Issues, Options and Strategies, Baltimore, MD
- Kulshreshtha, S., E. Wheaton, A. Amiraslany, H. Hill, A. Chipanshi and A. Howard. (2010), *Potential Socioeconomic Impacts of Climate Change on Canadian Crop Production: A Literature Survey*, Research Report, Prepared for Agriculture and Agri-Food Canada. Department of Bioresource Policy, Business and Economics, University of Saskatchewan, Saskatoon, SK, 74 pp., SRC Publication Number: 11178-1E10
- Kulshreshtha, S., V. Wittrock, L. Magzul and E. Wheaton. (2010), *Impacts and Adaptations to Extreme Climatic Events in an Aboriginal Community: A Case Study of the Kainai Blood Indian Reserve*, Book Chapter, Chapter 15 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK

- Kulshreshtha, S.N., K. Van Rees, H. Hessel, M. Johnston and J. Kort. (2010), *Agroforestry Development on the Canadian Prairies*, Book Chapter, Monograph in the Series: Agriculture Issues and Policies, Nova Science Publishers, New York, 50 pp.
- Kulshreshtha, S.N., K. Van Rees, H. Hessel, M. Johnston and J. Kort. (2010), *Issues in Agroforestry Development on the Canadian Prairies*, Book Chapter, in: Kellimore, L.R., ed. Handbook on Agroforestry: Management Practices and Environmental Impact, Environmental Science, Engineering and Technology Series, Nova Science Publishers, New York, p. 91-127
- Luo, P. (2010), *Introduction to the Saskatchewan Research Council CO<sub>2</sub> EOR Business Unit*, Invited Presentation, China Huaneng Group and Shaanxi Yanchang Petroleum Group; Korean Delegation
- MacWilliam, S. (2010), *Lifecycle and Socioeconomic Analysis of Pulse Crop Production and Pulse Grain use in Western Canada*, Invited Presentation, NRCan Webinar; Green Crop Network Workshop, University of Saskatchewan, Saskatoon, SK
- Manuilova A. (2010), *Lifecycle and Socioeconomic Analysis of Pulse Crop Production in Western Canada*, Presentation, 5th International Food Legumes Research Conference (IFLRCV) and 7th European Conference on Grain Legumes (AEP VII)
- Manuilova, A. (2010), *The Future is Here: Corporate GHG Accounting Systems*, Invited Presentation, Sustainable Saskatchewan Symposium, Saskatoon, SK
- Manuilova, A. and S. MacWilliam. (2010), *Life Cycle Inventory of Synthetic Natural Gas (SNG) Production from Forest Residues via Gasification and Methanation*, Poster Presentation, Agricultural Biorefinery Innovation Network (ABIN) Annual General Meeting, London, ON
- Manuilova, A. and Stark and Marsh Chartered Accountants. (2010), *Eco-labeling for Small and Medium Size Enterprises in Western Canada*, Invited Joint Presentation, STEP 2010 Trade Conference, Saskatoon, SK
- McVicar, G. (2010), *Algae Case Study*, Invited Presentation, Innoventures Canada (I-CAN) Innovation School, Winnipeg, MB
- McVicar, G. (2010), *Combined Heat and Power Project*, Interview, Canadian Industry Program for Energy Conservation (CIPEC)
- McVicar, G. (2010), *The State of GeoExchange in Saskatchewan*, Invited Presentation, Canadian GeoExchange Coalition, 4th National GeoExchange Policy and Technical Forum, Montreal, QC
- McVicar, G. (2010), *Thermal Processing Facility*, Invited Presentation, Enbridge, TransCanada Pipelines and Nexen, Calgary, AB
- McVicar, G. and M.C. Côté. (2010), *Creating Value from CO<sub>2</sub> Emissions – An Opportunity for Canada to Lead*, Invited Presentation, Innoventures Canada (I-CAN) Innovation School, Winnipeg, MB
- Meinert, A., B. Bonsal, E. Wheaton and E. Siemens. (2010), *An Assessment of Various Drought Indices Associated with the 1999-2005 Canadian Prairie Drought*, Research Report, Prepared for the Canada Drought Research Initiative of the Canadian Foundation for Climate and Atmospheric Sciences; Saskatchewan Research Council, 67 pp., SRC Publication Number: 11602-2E10
- Muldoon, J. and L.L. Schramm. (2010), *Gunnar Uranium Mine Remediation Project. Northern Saskatchewan*, Conference Presentation, Proceedings, 33rd Arctic and Marine Oilspill Program (AMOP) Technical Seminar on Environmental Contamination and Response, Halifax, NS, p. 383-403
- Nyirfa, W. (2010), *Generational Leadership: Millennials, Boomers and Everything in Between*, Presentation, Women in Leadership Conference, Regina, SK
- Poppy, S. (2010), *Alley Cropping: The Possibilities are Growing*, Magazine Article, Forest Times,
- Poppy, S. (2010), *Establishment of an Alley Cropping Demonstration on the Canadian Prairies*, Poster Presentation, Short Rotation Woody Crops Conference, Syracuse, NY
- Pretorius P.J. (2010), *Preparation of Low Temperature Fe-based Fischer-Tropsch Catalysts: Strategies that Work and Those that Don't*, Lecture, 240th ACS Meeting, Boston, MA
- Pretorius, P.J. (2010), *Bioprocessing Activities Overview*, Presentation, Division of Agriculture, Biotechnology and Food Advisory Board
- Pretorius, P.J. (2010), *LT Fe FT Catalyst Preparation: Strategies that Work and Those That Do Not*, Lecture, 240th National Meeting, American Chemical Society, Boston, MA
- Pretorius, P.J. (2010), *Syngas Utilization*, Invited Lecture, Canadian Institute's Gasification Conference, Calgary, AB
- Providenti, M. (2010), *Biochar*, Interview, Earth Day 2010, CBC Radio Blue Skies Program and CTV Farmgate
- Sanders, R.S. and R.G. Gillies. (2010), *Slurry Pipeline Flows – Coarse Behaviour From Some Otherwise Fine Particles*, Invited Plenary Presentation, North American Mixing Forum (Mixing XXII), Victoria, BC
- Schramm, L.L. (2010), *NSERC CREATE: Collaborative Research and Training Experience Program*, Invited Panel Speaker, Research Services, University of Saskatchewan, Saskatoon, SK
- Schramm, L.L. (ed), (2010), *Surfactants: Fundamentals and Applications in the Petroleum Industry*, Book, New Paperback Edition, Cambridge University Press, Cambridge, UK, 621 pp.
- Schramm, L.L., D. Soveran, B. Schreiner and J.W. Kramers. (2010), *Shale Oil Potential in Saskatchewan*, Conference Presentation and Research Report, Proceedings, Canadian Unconventional Resources and International Petroleum Conference 2010, Calgary, AB, paper CSUG/SPE 137311, 10 pp.
- Schramm, L.L., J.W. Kramers and E.E. Isaacs. (2010), *Saskatchewan's Place in the Canadian Oil Sands*, Journal Article, Journal of Canadian Petroleum Technology, Volume 49(11) 12-21
- Stanek, B. (2010), *Sampling Procedures and General Information*, Presentation, Saskatchewan Association of Rural Water Pipeline (SARWP) Annual Conference and Tradeshow
- Stanek, B. (2010), *Water Sampling*, Presentation, Federation of Saskatchewan Indian Nations (FSIN) Health and Wellness Conference, Saskatoon, SK
- Sulatisky M., B. Hay and D. Moure. (2010), *Damage Detection in High-Pressure Storage Cylinders*, Invited Presentation, World Hydrogen Energy Conference (WHEC 2010), Essen, Germany
- Thorpe, J. (2010), *Adaptation to Climate Change in Prairie Grasslands*, Invited Presentation, Manitoba Grazing School, Brandon, MB
- Thorpe, J. (2010), *Climate Change and the South of the Divide Project*, Invited Presentation, Impact of Climate Change on Target Species at Risk in Southwest Saskatchewan Workshop
- Thorpe, J. (2010), *Determination of Range Ecosites for Agricultural Land Assessment*, Invited Presentation, Saskatchewan Assessment Appraisers Association Convention, Saskatoon, SK
- Thorpe, J. (2010), *Vulnerability to Climate Change in Manitoba's Grasslands*, Invited Presentation, Manitoba Inter-Departmental Workshop on Climate Change Adaptation, Winnipeg, MB
- Tremblay, B. (2010), *CHOPS 25 Years Later: What Remains to be Known?*, Presentation, BP Heavy Oil Symposium, Anchorage, AK
- Trost, B., M. Haakensen, V. Pittet, B. Ziola and A. Kusalik. (2010), *Analysis and Comparison of the Pan-Genomic Properties of Sixteen Well-characterized Bacterial Genera*, Research Article, BMC Microbiology 2010 10:258
- Wang, X. (2010), *Bakken CO<sub>2</sub> Simulation*, Presentation, CURI Petroleum Conference, Calgary, AB
- Wang, X., P. Luo, V. Er and S. Huang. (2010), *Assessment of CO<sub>2</sub> Flooding Potential for Bakken Formation*, Presentation, Saskatchewan Research Paper, Paper SPE 137728, Proceedings of the Canadian Unconventional Resources & International Petroleum Conference, Calgary, AB
- Wedewer, S. (2010), *Combined Heat and Power Technology*, Invited Presentation, American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Regina Chapter, Regina, SK
- Wedewer, S., G. McVicar, C. James and R. Sieber. (2010), *Combined Heat and Power Technology (CHP)*, Presentation, Media and Public Tour – Inland Metal, Regina, SK
- Wheaton, E. (2010), *How Might Climate Change Affect Saskatchewan?*, Invited Presentation, University of Saskatchewan Language Center, Saskatoon, SK
- Wheaton, E. (2010), *Institutional Adaptation to Climate Change: The Cases of Canada and Chile*, Presentation, Ecosystems Business Unit, Saskatchewan Research Council, Saskatoon, SK
- Wheaton, E. (2010), *New Water Issues in New Climates: Lessons from the Past, Signals for the Future*, Lecture, Alex Johnston Lecture Series Lecture of the Lethbridge Historical Society and the University of Lethbridge, SRC Publication Number: 10432-3D11
- Wheaton, E. (2010), *Priority Climate Issues: Discussion for the Environmental Round Table*, Invited Presentation, Environmental Round Table with Federal Environment Minister and Colleagues, Saskatoon, SK, 6 slides, SRC Publication Number: 10432-2D10
- Wheaton, E. (2010), *Risks and Opportunities for Agriculture of Climate Trend*, Invited Presentation, Plant Biotechnology Institute, University of Saskatchewan, Saskatoon, SK
- Wheaton, E. (2010), *Saskatchewan and Climate Change*, Invited Lecture, Language Centre, University of Saskatchewan, Saskatoon, SK
- Wheaton, E. (2010), *So How About This Weather?*, Interview, Maclean's Magazine
- Wheaton, E. and N. Nicolichuk. (2010), *Patterns of Extreme Wet and Dry Hazards in the Canadian Prairie Provinces and Beyond*, Research Report, Prepared for Adaptation and Impacts Research Division, Environment Canada; Saskatchewan Research Council, 109 pp., SRC Publication Number: 12829-12E10
- Wheaton, E. and S. Kulshreshtha. (2010), *Agriculture*, Book Chapter, Chapter 7 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- Wheaton, E., B. Bonsal, E. Siemens and A. Meinert. (2010), *Characterizing the Surface Dynamics of the 1999-2005 Canadian Prairie Drought: Final Progress Report*, Research Report, Prepared for the Canada Drought Research Initiative, Winnipeg, MB, SRC Publication Number: 11602-5E10

- Wheaton, E., B. Bonsal, G. Koshida, N. Nicolichuk, E. Siemens, R. Udinoor-Palliath and V. Wittrock. (2010), *Facing Drought Hazards: Traits, Impacts and Adaptations*, Invited Presentation, Drought Preparedness Partnership Workshop and Canada Drought Research Initiative Workshop, Winnipeg, MB, 34 slides, SRC Publication Number: 12829-13D10
- Wheaton, E., S. Kulshreshtha and V. Wittrock. (2010), *Assessment of the 2001 and 2002 Drought Impacts in the Prairie Provinces, Canada*, Book Chapter, Chapter 16 in Sauchyn, D., P. Diaz, and S. Kulshreshtha (eds.) *The New Normal: The Canadian Prairies in a Changing Climate*. Canadian Plains Research Center, U of R, Regina, SK
- Wheaton, E., S. Kulshreshtha, W. Eilers and V. Wittrock. (2010), *Developing Agriculture's Environmental Indicators in the Context of Adapting to Climate Change: A Summary Paper*, Research Report, Proceedings of the joint Organization for Economic Cooperation and Development (OECD) - Italian National Institute of Agricultural Economics (INEA) - Food and Agriculture Organization of the United Nations (FAO) workshop on Agriculture and Adaptation to Climate Change, Paris, [http://www.oecd.org/document/4/0,3746,en\\_2649\\_33791\\_41711812\\_1\\_1\\_1\\_37401,00.html](http://www.oecd.org/document/4/0,3746,en_2649_33791_41711812_1_1_1_37401,00.html), 2 pp., SRC Publication Number: 10432-1D10
- Wheaton, E., S. Kulshreshtha, W. Eilers and V. Wittrock. (2010), *Environmental Sustainability of Agriculture in the Context of Adapting to a Changing Climate*, Invited Keynote Address, Joint Organization for Economic Cooperation and Development - Italian National Institute of Agricultural Economics and United Nations Food and Agricultural Organization's Workshop on Agriculture and Adaptation to Climate Change in Rome, Italy, 36 slides, SRC Publication Number: 10432-1D10
- Wheaton, E., S. Kulshreshtha, W. Eilers and V. Wittrock. (2010), *Trends in the Environmental Performance of Agriculture in Canada under Climate Change*, Research Paper, Prepared for the Organization for Economic Cooperation and Development (OECD), Paris, 10pp., SRC Publication Number: 10432-16E10
- Wheaton, E., V. Wittrock and S. Kulshreshtha. (2010), *Rural Prairie Communities and Extreme Drought*, Presentation, Rural Adaptation to Drought Project, Regina, SK, SRC Publication Number: 11899-2D10
- Wheaton, E., V. Wittrock, B. Bonsal, G. Koshida, N. Nicolichuk, E. Siemens and R. Udinoor-Palliath. (2010), *Confronting Drought Hazards in Saskatchewan*, Invited Presentation, Canada Drought Research Initiative Users Workshop, 36 slides, SRC Publication Number: 11602-2D10
- Wilson, K.C., R.S. Sanders, R.G. Gillies and C.A. Shook. (2010), *Verification of the Near-Wall Model for Slurry Flow*, Journal Article, Powder Technology, Volume 197, Issue 3, p. 247-253
- Wilton, J. and C. Nomeland. (2010), *Saskatchewan Municipal Energy Programs*, Invited Presentation, Saskatchewan Association of Rural Municipalities Tradeshow/Conference, Regina, SK
- Winder, K. (2010), *Building Energy Audits*, Invited Presentation, Road Map Saskatoon, 6th Annual Forum, Saskatoon, SK
- Winder, K. (2010), *CMHC Equilibrium™ Housing Demonstration Initiative*, Invited Presentation, Energy Management Task Force, Saskatoon Chapter, Saskatoon, SK
- Winder, K. (2010), *Energy Saving Opportunities in Recreational Facilities*, Invited Presentation, Saskatchewan Institute of Applied Science and Technology (SIAT) Recreation and Tourism Management Program Lecture, Saskatoon, SK
- Winder, K. (2010), *Ensuring a Good Building Envelope*, Invited Presentation, Health Facility Resource Council Saskatchewan Inc., 10th Annual Fall Conference, Elk Ridge, SK
- Winder, K. (2010), *Saskatchewan Net Metering Rebate Program*, Invited Presentation, Canadian Wind Energy Association (CanWEA), 2010 Conference and Exhibition, Montreal, QC
- Winder, K. (2010), *Small Wind Turbine Performance – A Field Study from Saskatchewan*, Invited Presentation, American Wind Energy Association (AWEA) Small and Community Wind Conference and Exhibition, Portland, OR
- Winder, K. (2010), *The Experts Scoop on Eco-Wise Saskatoon Development*, Magazine Article, Saskatoon Home – Summer 2010
- Winder, K., J. Gusdorf and R. Charron. (2010), *Canada's Equilibrium™ Housing Demonstration Initiative: Net-Zero Energy Houses in Cold Climates*, Invited Presentation, American Council for an Energy-Efficient Economy, 2010 Summer Study, Monterey, CA
- Wittrock, V. and E. Wheaton. (2010), *Climate Connections with Vector-Borne Diseases: A Case Study of the Ixodes Scapularis Tick and Lyme Disease in the Canadian Prairies*, Research Report, Report prepared for Adaptation and Impacts Research Division, Environment Canada, 31 pp., SRC Publication Number: 12829-15E10
- Wittrock, V. and E. Wheaton. (2010), *Climate Hazards for Disease Risk: A Case of West Nile Virus*, Research Report, Prepared for Adaptation and Impacts Research Division, Environment Canada, 42 pp., SRC Publication Number: 12624-8E09
- Wittrock, V. and E. Wheaton. (2010), *Climate Variability and Trends of Saskatchewan and the Canadian Prairies*, Invited Presentation, Saskatchewan Alfalfa Seed Producers' Association, 42 slides, SRC Publication Number: 12829-1D10
- Wittrock, V. and E. Wheaton. (2010), *Climatology Group Business Planning*, Presentation, Planning Meeting for the Ecosystems Business Unit, Saskatchewan Research Council, 17 slides, SRC Publication Number: 11225-1D10
- Wittrock, V., C. Beaulieu, E. Siemens, R. Udinoor-Palliath, J. Wilkinson, J. Thorpe, A. Rodriguez-Prado, K. Orosz, K. Winder and E. Wheaton. (2010), *Climate Hazards Research Results*, Research Report, Proceedings of the Climate Hazards Workshop, November 25, 2009, Saskatoon, SK. Report prepared for Adaptation and Impacts Research Division, Environment Canada, 17 pp., SRC Publication Number: 12829-1E09
- Wittrock, V., E. Wheaton and E. Siemens. (2010), *More than a Close Call: A Preliminary Assessment of the Characteristics, Impacts of and Adaptations to the Drought of 2009 in the Canadian Prairies*, Research Report, Prepared for Environment Canada Adaptation and Impacts Research Division (AIRD); Saskatchewan Research Council, 124 pp., SRC Publication Number: 12803-1E10
- Wittrock, V., E. Wheaton and S. Kulshreshtha. (2010), *Drought Impacts on Canadian Communities: Monitoring and Assessment*, Invited Presentation, Group on Earth Observations and Drought Monitoring Workshop, Winnipeg, MB, 25 slides, SRC Publication Number: 11899-5D10
- Wittrock, V., E. Wheaton and S. Kulshreshtha. (2010), *An Extreme Drought Event and Its Impacts on Six Canadian Prairie Communities*, Presentation, Environment and Forestry Division Staff; Saskatchewan Research Council and the University of Saskatchewan, 27 slides, SRC Publication Number: 11899-2D10
- Wittrock, V., E. Wheaton and S. Kulshreshtha. (2010), *Rural Communities and Drought Impacts*, Invited Presentation, Rural Community Adaptation to Drought Project Workshop, Regina, SK, 27 slides, SRC Publication Number: 11899-2D10
- Yuen, W. (2010), *Formation of Chlorination Disinfection By-products in Drinking Water at Small Municipal Plants*, Presentation, Saskatchewan Water and Wastewater Association (SWWA) Annual Conference and Tradeshow, Saskatoon, SK
- Yuen, W. (2010), *Traceability/Record Keeping for Water Labs at First Nations Communities and Summary of Audit of First Nations Drinking Water Facilities*, Presentation, Health Canada First Nations Workshop, Saskatoon, SK
- Yuen, W. (2010), *Water Quality and Water Management*, Presentation, First Nations Elder and Youth Environmental Gathering, Wanuskewin Park, Saskatoon, SK
- Yuen, W. and P. Moser. (2010), *Haloacetic Acids and THM Formation Potential – Testing Methodology and Examples for Small Drinking Water Systems*, Conference Presentation, Western Canada Water Conference, Calgary, AB and Saskatchewan Water and Wastewater Association Conference, Saskatoon, SK
- Zhang, Y., P. Luo and S. Huang. (2010), *Improved Heavy Oil Recovery by CO<sub>2</sub> Injection Augmented with Chemicals*, Presentation, Paper SPE 131368, International Oil & Gas Conference and Exhibition in China (IOGCEC), Beijing, China
- Zhang, Y.P., P. Luo and S. Huang. (2010), *Coupling Immiscible CO<sub>2</sub> Technology and Polymer Injection to Maximize EOR Performance for Heavy Oils*, Journal Paper, Journal of Canadian Petroleum Technology, Volume 49 (5), 27–33
- Zhang, Y.P., S.G. Sayegh, P. Luo and S. Huang. (2010), *Experimental Investigation of Immiscible Gas Process Performance for Medium Oil*, Journal Article, Journal of Canadian Petroleum Technology, Volume 49 (2), 32–39

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