

Dr. ROGER GAUDREULT



The 2016 Canadian Green Chemistry and Engineering Award, sponsored by Green Centre Canada, was awarded to Dr. Roger Gaudreault for his significant contribution to Green Chemistry research and development through 30 years of dedicated work for the Pulp and Paper Industry, industrial water treatment and renewable energy.

Dr. Gaudreault's expertise notably spearheaded him to develop an integrated innovation Green Chemistry approach based on recycled fibres. His scientific and applied background helped developed strong partnerships between academia and industry. He has been an affiliated member of the Centre in Green Chemistry and Catalysis (CGCC) since 2011. Dr. Gaudreault's scientific interests include; kinetics of colloids, chemistry of pulping/bleaching and papermaking, recycling, corrosion inhibition, superabsorbent fibres, biofuels from wood biomass, molecular modelling and life cycle analysis. Dr. Gaudreault did a Post-Doctoral Fellowship co-supervised by Professors David A. Weitz from Harvard University and Theo van de Ven from McGill University (2005-2006). He completed a PhD on molecular modelling from McGill University (2003); MSc. in Pulp and Paper from Université du Québec à Trois-Rivières (1991); and a BSc in Chemistry from Université du Québec à Chicoutimi (1986).

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Dr. Gaudreault has also been named PAPTAC Fellow 2017 in recognition of his outstanding long-term and significant contribution to the Association, the pulp & paper and forest products industry and for the advancement of science and technology in the industry.

Summary of Achievements



INDUSTRIAL RESEARCH & DEVELOPMENT

WATER TREATMENT

Executive Scientific Advisor

Vice-President R&D and Innovation

TGWT Clean Technologies Inc. (2013-2017)

Conception and implementation of TGWT research strategy. Development of green tannin-based corrosion inhibitors for the industrial water treatment.

- Aluminiumboilers.com program
- 5-10% spending on R&D and innovation.

PULP & PAPER

Corporate Director, Scientific Development, Cascades Canada ULC. (2013 - 2015)

Leader of scientific development in green chemistry and bridging the industry with the scientific community in North-America and Europe.

Manager and General Manager

Cascades R&D Centres (1992 - 2010)

Lead a group of over 40 experts on corporate R&D and innovative green processes & products.

- Hired and trained more than 100 employees, now having key positions in the company.
- Implementation of innovations for ROI of +\$150M.
- Three patents

ENERGY TRANSFORMATION

GreenChemistry Scientific Advisor (2014-16)

Borex Inc.

Lead and implement research strategy for the development of biofuel made from wood biomass.

- Three research projects (2014 - 2016).
- Co-supervision of three graduate students

INDUSTRY BOARDS

- Session Chair, FIBRE Commercialization Forum (2014 - 2015) and FIBRE Day (2013 - 2016) at PaperWeek Canada
- Co-chair, Technical Program, PaperWeek (2013)
- Instigator of two industrial R&D Consortia Canada-USA (1995 - 2010)
- Consortium Hymac on Recycled Fibres (1991-94)



INNOVATION MANAGEMENT

CORPORATE INNOVATION STRATEGY

Innovation Corporate Director

Cascades Canada ULC (2011 - 2013)

First Leader of Cascades Innovation Committee and i-LEAD innovation strategy. Structure innovation best practices and increase the innovation rate and efficiency.

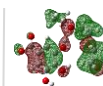
Key Achievements:

- Development and implementation of key performance indicators (KPIs).
- Integration and continuous improvement of Cascades' innovation process within all sectors and plants
- Leader of the i-LEAD communication strategy team supporting the development of a corporate innovation culture
- Editor of the first online and paper Innovation Journal
- Key collaborator in the achievement of Corporate International & National innovation Awards and Recognitions

INNOVATION CONFERENCES

Innovation Management Lecturer

- Total audiences of over 4,500 participants (business and public decision-makers).
- Speaker for organizations such as:
 - The Standing Senate Committee of Canada on Agriculture and Forestry;
 - The Conference Board of Canada;
 - Les Entretiens Jacques-Cartier;
 - ISPIIM;
 - Science & Policy Exchange;
 - Universities and Colleges;
 - FORAC;
 - Chambers of Commerce & Industries.



ACADEMIA & KNOWLEDGE DEVELOPMENT

TEACHING AND COACHING

Co-supervision of graduate students

- MScA, Benoît B.-Gaboriau (ETS, 2014 - 2016)
- MScA, Michel Aucoin (UQTR, 1999)
- MSc, Martine Lepage, (McGill, 1997)
- Provide ongoing HQP training to FIBRE students on research and industry approach.

External Examiner, Reviewer and Judge

- PhD thesis (2)
- Articles and R&D Grant Applications (40)
- Scientific posters (200)

Courses and lectures

- McGill University: Colloid Chemistry (2012 - 2017)
- Université Laval: Chimie de l'environnement (2014)
- ETS : L'avantage concurrentiel ; méthodes et applications (2014)
- PAPTAC Paper Wet-end Chemistry: Molecular Modelling (1994, 1997, 2000, 2003, 2006)

SCIENTIFIC PUBLICATIONS & LECTURES

Scientific Publications

- More than 20 articles
- FRC Symposia: Cambridge (2005 and 2013) and Oxford (2009)

Editor and Guest-editor*

- *J-FOR Theo van de Ven Special Issue (July 2016)
- Theo van de Ven Festschrift Book (2016)
- Fundamental and Applied Pulp & Paper Modelling Symposium (FAPPM); Refereed Proceedings (book) (2005, 2008 & 2011)

Lecturer

- Total audiences of over 1500 scientists

INNOVATION BOARD

- Board member, Association pour le développement de la recherche et de l'innovation du Québec, ADRIQ (2013-2017)
- NSERC Synergy Awards for Innovation Selection Committee (2017-2019)

SCIENTIFIC BOARDS

- First industrial member of the Centre in Green Chemistry and Catalysis (CGCC, 2011...)
- Orientation Committee, Centre de Recherche sur les Matériaux Renouvelables (CRMR, 2014...)
- Green Fibre Products Network (2011 - 2015)
- Sentinel I and II (2005 - 2015)
- CIRAI: Life cycle Analysis (2005 - 2010)

FOR FURTHER INFORMATION ON EXPERTISE, PUBLICATIONS, TEACHING & PATENTS:

https://www.researchgate.net/profile/Roger_Gaudreault/ & <http://ccvc.research.mcgill.ca/members/members.html>