



BIOFOR Detailed Program

***Please refer to program online for latest updates**

We reserve the right to modify the timing if need be.

MONDAY FEBRUARY 10, 2025

(On-Line)

08:00 - 10:30

Funding for Biorefinery Value Chain Development

Session Chair: Virginie Chambost, Domtar and Paul Stuart, Polytechnique Montréal

Keynote Presentation

"EU Support for Biofuels and Biobased Products - International Cooperation Opportunities", **Maria Georgiadou**, *Senior Expert R&D Policy for Renewable Energy at European Commission*

Panelists:

Tamara Sone, *National Contact Point (NCP) for Horizon Europe, Innovation Science and Economic Development Canada (ISED)*

Katie Wallace, *Director Strategic Partnerships, Natural Sciences and Engineering Research Council of Canada (NSERC)*

Hooman Rezaei, *Senior Manager Global Carbon Strategy, Domtar*

In this keynote session with roundtable discussion, we will seek to address 3 key questions: (1) what is the potential for the Canadian Forest Products industry now that Canada qualifies for Horizon Europe Pillar II, in relation to advancing the bioeconomy, (2) how might Canadian funding programs “marry” with Horizon Europe, and (3) what is the perspective of a forest products company, considering their approach to innovation and developing the bioeconomy?

10:00 - 10:30

Networking Break

10:30 - 12:00

Moving from concept to action: Decarbonization, Reliability and Energy Efficiency

Session Chair: Davis Chiu, Deloitte & Victor Padilla, FPI

Panelists:

- **Frank Godin/Jahan Kargar**, *Director Strategy, Risk and Transactions Group, Deloitte*
- **Brett Henkel**, *Co-Founder and SVP of Business Development, Svante*
- **Malick Deme**, *Partner Gi3, Deloitte*

This panel will focus on a discussion on decarbonization strategies, novel carbon capture technologies and opportunities to catalyze these initiatives through grants and incentives

12:00 - 13:30

Networking and Lunch Break

13:30 - 15:00

Cultivating a thriving ecosystem for the Canadian Forest Bioeconomy

Session Chair: Davis Chiu, Deloitte Canada & Virginie Chambost, Domtar

Keynote Presentation

"Canada's Bioeconomy Opportunities: The Shape of Pulp to Come", **Monique Frison**, *Director General of NRCan's Canadian Forest Services*

Panelists:

Moderator: Davis Chiu

- **Frédéric Perreault**, *R&D Director - Cascades*
- **Alejandra Manrique**, *New Business Development Consultant with Suzano Ventures*
- **Scott Treadwell**, *President, SixRings*

This panel will provide a platform to discuss advancing the bioeconomy through the lens of an inhouse forest sector innovator, a clean technology innovator and a corporate venture capitalist.

15:00 - 15:30

Networking Break

15:30 - 17:00

From New Zealand to Canada - How First Nations are shaping the Bioeconomy?

Session Chairs: Virginie Chambost & Lana Wilhelm, Domtar, Heather Trajano, UBC

Keynote Presentation

"An Internal Review of Maori Perspective of Bioenergy", **Reina Tamepo & Shontelle Bishara**, *Te Ao Māori Research Group - Scion*

This panel provides a platform for dialogue and collaboration, showcasing the leadership of First Nations in Canada and the Māori in New Zealand in advancing successful bioeconomy and bioenergy projects. It highlights their long-term contributions to sustainable innovation while sharing practical lessons learned from impactful initiatives.

Panelists:

- **Tina Rasmussen**, *Chief Business Officer, MLTC Industrial Investments*
 - **Constant Awashish**, *Grand Chef, Conseil de la Nation Atikamekw*
 - **JP. Gladu**, *Founder and Principal, Mokwateh, Indigenous Leadership, Canada's Competitive Edge*
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*Please note all schedule is set on Eastern Time

TUESDAY FEBRUARY 11, 2025

(On-site + On-Line)

08:00 - 10:00

Price of Carbon - How can companies edge?

Session Chair: Virginie Chambost, Domtar and Davis Chiu, Deloitte Canada

Room: NotreDame / StDenis

Keynote Presentation

"Paper Trails - Mapping the Path to Low-Carbon Paper Production through Decarbonization and BECCS", **Ofei Mante**, *Sr. Research Scientist, Amazon WW Sustainability*

Panelists:

- **Joseph Kochanski**, *Head of Sustainability Operations (Global), Grow United*
- **Katie Goslee**, *Director Forest Carbon, Verra (Virtual Presence)*
- **Marcela Vera Escobar**, *Manager, Carbon Project Development, Clear Blue Markets*
- **Pauline Robert**, *Directrice Générale par intérim, Directrice Marché du Carbone et Gestion des GES, Coop Carbon*
- **Daniel Sutherland**, *Vice President Climate Solutions, McGill St Laurent*

This session explores how companies can leverage carbon markets for strategic advantage, featuring insights from experts in voluntary carbon markets, certification, credit purchasing, and brokerage. It highlights the critical role of carbon management in long-term sustainability strategies, offering practical guidance for industries seeking to maximize carbon value while contributing to NetZero commitments.

10:00 - 10:30

Networking Break

10:30 - 12:00

Emerging Carbon Capture Technologies and Projects Seeking to Maximise the Value of Carbon

Session Chair: Virginie Chambost, Domtar and Paul Stuart, Polytechnique Montreal
Room: NotreDame / StDenis

This session explores the evolving role of carbon capture in forestry, highlighting industry perspectives and practical success stories. Gain insights into key technologies, performance metrics, and how carbon capture can drive long-term decarbonization and NetZero commitments.

Speakers:

Featured Presentation - Jonathan Rhone, Co-founder and CEO at CO280, 'How carbon capture and removal unlocks a \$30 billion revenue opportunity for NA pulp and paper industry'

Marzie Shokrollahi, Process Engineer - Natural Resources Canada, 'Opportunities and Challenges for BECCS Deployment in Canada: A Strategic Perspective from the National CCUS Assessment Framework'

Balázs Tolnai, VP Research and Development, Kruger 'Kruger's Decarbonization Journey: Pioneering Carbon Capture and Reuse at Wayagamack Mill'

Daniel Olivier, NRC/Polytechnique, 'Aligning Stakeholders and Technology Evaluation for Carbon Capture Success'

12:00 - 13:30

Networking and Lunch Break

13:30 - 15:00

Leveraging Biocarbon Beyond Forest Ecosystems

Session Chairs: Serge Bédard, Natural Resources Canada and Victor Padilla, FPInnovations
Room: NotreDame / StDenis

The session explores the synergies and opportunities of the Forest Sector and other industries to valorize biomass as biocarbon. The speakers bring a wealth of knowledge from different perspectives

that cover end-users, technology providers, researcher on the field, and the key drivers in our current economic landscape.

Panelists:

- **Christophe Aura**, *Senior Advisor, Government Affairs and Decarbonization Strategy at ArcelorMittal Mining Canada*
 - **Jean-Philippe Jacques**, *Director at Innofibre*
 - **Andrew White**, *CEO at CHAR Technologies*
 - **Patrick Lapointe**, *CCO at Airex Energy*
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15:00 - 15:30

Networking Break

15:30 - 17:00

Honoring Bruno Marcoccia's Legacy: Inspiring Excellence in Forestry and Bioeconomy Innovation

Session Chairs: Shabnam Sanaei, Canfor & Hamed Bashiri, Office of Energy Research and Development (OERD)

Room: NotreDame / StDenis

15:30 Welcome, **Shabnam Sanaei**, *Director, Bio-Innovation and Technology at Canfor*

15:40 Introduction Presentation, **Stewart Marcoux**, *Former VP Project Development - Biomaterials at Domtar* and **Rolf Ryham** followed by Celebration Videos

Panelists:

Moderator: Hamed Bashiri, *Senior S&T Advisor at Office of Energy Research and Development (OERD)*

- **Bruno Gagnon**, *Manager / Canadian Forest Service, Trade, Economics & Industry Branch, Natural Resources Canada*

- **Tom Browne**, *Principal at Tom Browne and Associates*

- **Peter Axegard**, *CEO at FineCellox AB*

- **Davis Chiu**, *National Forest Sector Leader at Deloitte Canada and Partner Gi3*

17:00

Welcoming Reception in Tradeshow

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WEDNESDAY FEBRUARY 12, 2025

(On-site + On-Line)

08:00 - 10:00

Biorefinery Testbeds: Critical Importance and Canadian Capabilities

Session Chair: Bruno Gagnon, CFS

Room: NotreDame / StDenis

Keynote Presentation

"RISE Bioeconomy Arena: The role of testbeds in accelerating your biorefinery strategy", **William Mackintosh and David Blomberg Saitton**, *Research Institute of Sweden (RISE)*

BIOFOR Session

The goal of the session is to showcase various bioeconomy-related testbeds in Canada to the forest industry, providing insights into how these resources can support their efforts in exploring and advancing innovative processes and products.

09:00 "Bridging The Gaps in Bioproducts Commercialization", **Minh-Tan Ton-That**, *Program Leader and Principal Research Officer at National Research Council*

09:15 "Innofibre's bio-based product "hub": a technology acceleration platform", **Jean-Philippe Jacques**, *Director at Innofibre*

09:30 "CanmetENERGY-Ottawa's Thermochemical Testbeds for Forest Biorefinery Innovations", **Jawad Jeaidi**, *Engineering Project Leader at CanmetENERGY*

09:45 "FPIinnovations' Pilot Plants, Lessons from Benchtop to Deployment", **Kurt Woytiuk**, *Senior Researcher at FPIinnovations*

10:00 "The Verschuren Centre – Pilot to commercial scale deployment assets in biomanufacturing: smart materials & chemicals", **Beth Mason**, *Verschuren Centre*

10:00 - 10:30

Networking Break

10:30 - 12:00

Advancements in Lignin

Session Chair: Sophie Langis-Barsetti and Michael Paleologou, FPI

Room: NotreDame / StDenis

Keynote Presentation

"Lignin Valorization: Industrial Success Stories and Future Potential", **Sanna Valkonen**, *Senior Manager, UPM R&D & Technology*

BIOFOR Session

After a challenging 2023, lignin recovery and use is showing signs of resilience following the announcement by Södra that it will invest Cdn \$260 million in what will be the world's largest kraft lignin plant. This session will review the latest developments in lignin recovery, characterization and high-value applications.

10:50 "Latest Developments on ANDRITZ Lignin Recovery Process", **Elina Lohiniva**, *Andritz*

11:10 Effect of Drying Method on the Characteristics of LignoForce™ Kraft and Hydrolysis Lignins", **Adil Mazar**, *Mohammed VI Polytechnic University, Morocco* & **Michael Paleologou**, *FPI Innovations, Canada*

11:30 "Development of Green, Cost-Effective, Methylation Processes for Kraft Lignin", **Daniel Beaudoin, Ernest Palus & Alain Gagne**, *FPI Innovations, Canada*

12:00 - 13:30

Networking and Lunch Break

13:30 - 15:00

Student Session - Sustainable products and processes from biomass

Session Chair: Ivan Kantor and Yaser Khojasteh, Concordia University

Room: NotreDame / StDenis

13:30 "A Comparative Analysis of Chemical Pulping Processes: Evaluating Commercial Technologies and Emerging Concepts in Terms of Yield, Emissions, Energy Consumption, and Pulp Properties", **Nikolai Ponomarev and Luana Dessbesell**, *Aalto University*

14:10 "Identification of potential xylitol process innovations using process synthesis", **Caroline Brucel and Paul Stuart**, *Polytechnique Montreal*

14:25 "Sustainable Methanol Production: Life Cycle Assessment and Techno-economic Evaluation of Biomass, Direct CO₂, and Natural Gas Pathways", **Yasaman Amirhaeri, Hamed Hadavi, and Ivan Kantor**, *Concordia University*

14:40 "Optimizing Lubrication Practices in the Pulp & Paper Industry: A Smart Grease Gun Software Solution for Reducing Downtime", **Jesurun Ramesh and Nathan Wong**, *University of Waterloo*

14:55 "Enhancing the Economic Efficiency of biofuel production through the implementation of a synergetic strategy", **Yaser Khojasteh, Concordia University, Heather MacLean and Bradley Saville**, *University of Toronto*

14:00 - 18:00

Plant visit — Deloitte (Smart Factory)

By Invitation Only

Smart Factory Site Visit

Art of the Possible at The Smart Factory by Deloitte

Description: Title for the site visit: Art of the Possible at The Smart Factory by Deloitte

Discover innovative use cases for the pulp & paper industry with technology demonstrations at the Smart Factory by Deloitte in Montreal. Following these demonstrations, participate in digital transformation breakout sessions of your choice and explore solutions on how to tackle your biggest challenges.

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THURSDAY FEBRUARY 13, 2025

(On-Line)

08:00 - 10:00

Bioeconomy Business and Innovation Ecosystems : Lessons Learned and Factors for Success

Session Chair: Paul Stuart, EnVertis and Ivan Kantor, Concordia University

Keynote Presentation

“From Innovation Ecosystems to New Wood-based Products”, **Niklas von Weymarn**, *CEO at Metsä Spring*

Roundtable discussion

Panelists:

Jatta Jussila, *CEO, CLIC Innovation Oy*

Paul Nemes, *Deputy CEO and Process Leader, Paper Province*

Arvid Friebe, *Cluster Manager, BioEconomy e.V*

Johan De Coninck, *Director New Business Development & Strategy, Bioeconomy for Change*

In this keynote session with roundtable discussion, we will learn how Metsä played the role of “anchor firm” in developing an innovation ecosystem for their so-called Bioproduct mills, and then we will have presentations by some of Europe’s leading bioeconomy Business and Innovation Ecosystems (BIEs or clusters). The roundtable discussion will underline their core service areas, successes of the 3 BIEs, and some of the key challenges they faced in developing and sustaining their clusters. Could this be of interest to the Canadian industry?

10:00 - 10:30

Networking Break

10:30 - 12:00

PW Energy & BIOFOR Joint Session — Advancing Pulp & Paper Industry Decarbonization in a Net-Zero Carbon Economy

Session Chairs: Serge Bédard, Natural Resources Canada and Victor Padilla, FPInnovations

This session will explore innovative strategies and technologies driving energy efficiency and decarbonization in the pulp and paper industry. Focus will be placed on advancing

decarbonization efforts, achieving carbon neutrality, and transitioning toward a carbon-negative economy. The session aims to highlight practical pathways and roadmaps for sustainable evolution of pulp and paper industry .

Panelists:

- **Roberta Dagher**, *Research Associate at Institut de l'énergie Trottier - Accélérateur de Transition*, "Forest biomass in a net-zero future"
- **Francis Lebreux Desilets**, *Research Engineer* and **Luciana Savulescu**, *Research Scientist – Sustainable Industrial Decarbonization at CanmetENERGY, Natural Resources Canada*, "Advancing Decarbonization: Role of P&P Industry in a Net-zero Future"
- **Enrique Mateos-Espejel**, *Senior Scientist/Project Leader at FPInnovations*, "Roadmap for Canadian Kraft pulp mill decarbonization"
- **Bill Adams**, *Vice President, Sustainability & Innovation at Mercer International*, "Mercer International's Climate Transition Plan"

12:00 - 13:30

Networking and Lunch Break

13:30 - 15:00

Simulation and Digitalization for Sustainable Operation

Session Chair: Yaser Khojasteh, Concordia University and Paul Stuart, Polytechnique Montreal

Keynote Presentation

"Digital Intelligence Meets Human Ingenuity: Autonomy, Agility, and Environmental Renewal", **Mariana Sandin**, *Industry Principal at Seeq Corporation*

This session will highlight innovative solutions for optimizing pulp & paper industries and driving sustainability through digital intelligence and data-driven insights. We will explore how digitalization is revolutionizing the biomass industry through cutting-edge applications of Artificial Intelligence (AI) and Machine Learning (ML).

Speakers:

- **Dr. Ragab Ahmed**, *Natural Resources Canada*, 'Machine Learning and Generative AI for Solvent Design and Lignin Valorization'
- **Tom Van Der Velde**, *Business Transformation Lead Senior IT Project Manager, Vattenfall IT*
- **Philippe Mack**, **AI in process industry: from hype to impactful transformative opportunity***CBDO and Founder, PEPITe*, 'AI in process industry: from hype to impactful transformative opportunity'

15:00 - 15:30

Networking Break

15:30 - 17:00

What's New in Substitution Materials?

Session Chair: Victor Padilla, FPIinnovations

This session highlights the latest advancements in substitution materials for sustainable packaging and insulation, showcasing innovations in cellulosic foams, bio-based barrier coatings, and standardization efforts within the bioeconomy. Discover how emerging materials are transforming industries and supporting the shift toward sustainable alternatives.

Speakers:

"Cellulosic foam for packaging and insulation products", **David Myja**, *Researcher at Innofibre*

"Planes, trains & automobiles – new biomaterials for new markets", **Tomas Anderson**, *Senior Business Director at RISE*

"Development of bio-based barrier coatings for paper packaging", **Kimberly Osten**, *Scientist at FPI*

"Advancing Standardization within the Bioeconomy", **Bailey Smith**, *Project Manager, Natural Resources at CSA Group*

17:30 - 19:30

INVITATION #2

The Smart Factory by Deloitte @ Montreal Open House

For those who could not take the VIP tour yesterday, here is another chance to visit the plant: on February 13, we invite you to The Smart Factory @ Montreal Open House, Deloitte's 10,000 sq. ft. manufacturing & warehousing innovation centre based in Ville Saint-Laurent.

A showcase for cutting-edge manufacturing & warehousing technology, The Smart Factory enables clients to chart their own digital industrial transformation journey thanks to some thirty use cases. Join us for this visit of The Smart Factory in a casual 5 to 7 format and learn more about this unique innovation center in Canada!

Date and time: Thursday, February 13, 2025, 5:30 pm to 7:30 pm

Location

The Smart Factory by Deloitte @ Montreal
3930 rue Griffith
Ville St-Laurent, QC, H4T 1A7

For more information: tsfmontreal@deloitte.ca

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