



Scaling Up 2023

The Future is Now

*Canada's 8th annual industrial
bioeconomy business conference*

November 6-8, 2023

Fairmont Château Laurier

Ottawa, Canada



www.scalingupconference.ca

Chair's Message:

Canada is ill prepared for the bio revolution

"It is the policy of my Administration to coordinate a whole-of-government approach to advance biotechnology and biomanufacturing... to...improve and expand domestic biomanufacturing production capacity and processes...boost sustainable biomass production and create climate-smart incentives for American agricultural producers and forest landowners" - Executive Order, The White House - September 2022

Six months later, multiple US Government Departments collaborated to make this real:

"The world is on the cusp of an industrial revolution fueled by biotechnology and biomanufacturing... Through biomanufacturing, sustainable biomass across the United States can be converted into new products and provide an alternative to petroleum-based production for chemicals, medicines, fuels, materials, and more." - Bold Goals for U.S. Biotechnology and Biomanufacturing' - March 2023

More than 60 countries in the world have national bioeconomy strategies. Canada is not among them. Given our forest and agriculture biomass resource, this is counter intuitive.

Fair enough, Canada produces a few million litres of first-generation ethanol and biodiesel, generates some heat and electricity from biomass combustion, and has several beautiful tall wood buildings. But what about producing (and exporting) paints, diapers, laundry detergent, industrial cleaners, personal care products and some 16,000 other items independently certified to be made in whole or in part from biomass as listed in the US Department of Agriculture's BioPreferred Program?

Yes, I understand that Natural Resources Canada and Agriculture Canada are working on some form of national bioeconomy initiative. And the Canadian Council of Forest Ministers has worked on a forest bioeconomy framework that identifies a number of "challenges" from fibre supply, to regulatory and policy alignment across governments, to government procurement (hello). All fine. But we need to move much further and faster and include not only forestry, but MSW, district energy, and agriculture.

And let's not re-invent the wheel. The policy issues are the same world wide – enabling market access and project finance through stable and certain government policy. There is no need for a made-in-Canada bio-based strategy. Borrow from the Americans, the British, the Europeans, and the Costa Ricans.

I could not say it better than McKinsey:

"Canadian stakeholders and contributors need to inform themselves about the Bio Revolution. Innovators, businesses, governments, and citizens need to become bioliterate in order to respond effectively to ongoing bio innovation, weighing risk against reward. The choices they make will influence the size and scope of the Bio Revolution's benefits for economies, societies, and the planet" - McKinsey Global Institute "The Bio Revolution: Innovations transforming economies, societies, and our lives," - May 2020

Sorry to sound like a broken record. But Canada is nowhere near 'bioliterate.'



Jeff Passmore
Chair, Scaling Up
CEO, Passmore Group

Guest Editorial by Jim Lane: Make the Sign

As a journalist I've traveled more than a half million miles since my last visit to Scaling Up. I'm back to a place where the story of the advanced bioeconomy's leap to scale was first predicted and planned. In many ways, it's been a circular journey.

Yet in many ways, all of us right now are on a circular journey, the journey to the circular economy, progressing, scaling fast, tapping circles of biomass that surround the new biorefineries that are being built. More than 60 billion liters of advanced fuels and chemicals capacity is in place or on the drawing board right now. We are here to accelerate their progress and learn.

In pursuit of our goals, this week in Ottawa, we'll take away so many lessons, strategies, contacts and bright ideas. I'd like to suggest one more item to take home with you, that's the circular sign.

You make it with two half-circles made with your thumb and index finger, you join those together to make the circle, the sign of your circular hopes, your belief in a circular future. You signify to others that you belong to a special tribe who are committed to a sustainable future.

It's the circle of the journey to a circular economy. it's the Zero of our Net Zero goals. It's O for opportunity, it's O for the special role of Ottawa in the policy debate, it's O for Ontario where exciting things are happening and more on the way. it's O, meaning that your technology in these times have made the world your oyster.

People like change, but they don't like to change, and that makes allies, financiers, technology, policymakers harder to persuade than they should be. So, make the sign, and when it's returned, you'll know that in this great work you are not alone. The more you see it, the more confidence you'll have that the world will change fast enough to address its climate, energy and materials goals.

We don't sign V for Victory because the road ahead is long. But have no doubt of the outcome, and have no doubt in the role you are playing.



Jim Lane is the Editor & Publisher of The Daily Digest – the world's most widely read bioeconomy daily with over 5.9 million readers globally.

Conference Program

Platinum Sponsors



Monday, November 6, 2023

Spain Pre-Conference Event:

Quebec Suite, Chateau Laurier Hotel

- 15:00** Opening and welcoming remarks
- 15:05** Registration and welcome
Speaker: Embassy of Spain to Canada
- 15:10** Meet the Trade Commissioner: Opportunities in the Spanish market
Speaker: Trade Commissioner Service in Spain
- 15:20** Keynote lecture on the bioeconomy and Sustainable forest management
Speakers: Natural Resources Canada / Canadian Council of Forest Ministers
- 15:40** Networking coffee
- 16:00 - 17:30** b2b meetings
15 minutes per meeting

Scaling Up Welcome Reception

17:30



Scaling Up Welcome Reception – Laurier Room
Host: ECOSTRAT



The Gordon Webster Jazz Trio
Sponsored by:
Canadian Fuels Association



Tuesday, November 7, 2023

Adam Room

07:30



Breakfast –
The Château Continental
Hosts: Iogen Corporation &
Hydrogen Naturally



The Gordon Webster Jazz Trio
Sponsored by:
Canadian Fuels Association



08:15 Welcome / Opening Remarks



Jeff Passmore
Founder, Scaling Up
CEO, Passmore Group Inc.

08:22 First Nation Scaling Up blessing



Marcus Hardy
Chief
Red Rock Indian Band, Lake Helen Reserve

08:25 Opening Morning Keynotes



Session Chair: Charles Vincent
Senior Assistant Deputy Minister (ADM), Industry Sector
Innovation, Science & Economic Development (ISED)

08:30 The future is zero: Scaling up a decarbonized world now



Jim Lane
Editor & Publisher,
The Daily Digest

08:45 The Bio-revolution is here. Is Canada doing enough to lead the charge?



Bettina Hamelin
President & CEO
Ontario Genomics

09:00 SAF supply: Delivering on market desire



Madison Carroll
Executive Director
Council on Sustainable Aviation Fuels Accountability (CoSAFA)

**09:15 BECCS for Carbon Dioxide Removal:
Canada's Greatest Climate Opportunity**



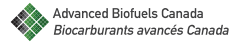
Jamie Stephen
Managing Director
TorchLight Bioresources

09:30 Keynote Panel Discussion

09:50



Refreshment Break
Host: Advanced Biofuels Canada



**10:20 Enabling communities to tap into the trillion dollar bioeconomy market:
BDO Zone Ratings in North America and beyond**



Jordan Solomon
President and CEO
Ecostrat Inc.

in conversation with:



Meaghan Seagrave
Executive Director
Bioindustrial Innovation Canada

11:05 Munich RE's insurance evolution & the considerable impact of the IRA



Derek Griffin
Green Tech Solutions
Munich RE

**11:25 Sustainable Aviation Fuels: The international regulatory battles
and what works best for Canada**



Session Chair: Fred Ghatala
Director Carbon and Sustainability
Advanced Biofuels Canada



Geoff Sauvette
Executive Director
Canadian Council for Sustainable Aviation Fuels



Pierre Ruel
Director Strategy and Policy
Boeing Canada

12:00 Net zero changes everything



Session Chair: Anjana Meel
Managing Consultant, Commercial Sustainability Team
Guidehouse

in conversation with:



Dan Wicklum
Co-Chair, Net Zero Advisory Body
CEO, The Transition Accelerator



Brian Foody
CEO
Iogen Corporation

12:30



Lunch
Hosts: EcoEngineers &
Natural Products Canada



13:15 Scaling Up annual award presentation

**13:17 The fermentation challenge:
Models that could work for Canada and abroad**



Welcome to Natural Products Canada (NPC):
Shelley King
CEO, NPC



Session Chair: Barbara Campbell
Regional Director Atlantic
Natural Products Canada



Vik Pandit
CEO and co-founder
Phycus Biotechnologies Inc.



Hamid Noori
Founder and CEO
The Cultivated B



Scott Farrow
VP Innovation and Research Operations
Solar Biotech Canada

14:00 First Nations bioeconomy pursuits: That's quite the story!



Session Chair: Kyla Morrisseau
Climate Change Specialist & 20/20 Catalyst
Animbiigoo Zaagi'igan Anishinaabek First Nation



Marcus Hardy
Chief
Red Rock Indian Band, Lake Helen Reserve



David Mackett
Director, Sagatay Cogeneration and Wood Pellets,
Whitesand First Nation Bioeconomy Centre (BEC)



Jordan Hatton
Director Economic Development
Bingwi Neyaashi Anishinaabek (Sand Point First Nation)

14:40 Doing is More Fun than Talking

A conversation between:



Ian MacGregor
Executive Chair
Hydrogen Naturally (H₂N)

and



Dan Wicklum
Co-Chair, Net Zero Advisory Body &
CEO, The Transition Accelerator

15:05



Refreshment Break
Host: New Energy Risk



15:30 Net Zero & Non-ZEV Transport: Why, How, & Where's Canada?



Session Chair: Doug Hooper
Director Policy & Regulation
Advanced Biofuels Canada



Tammy Klein
Founder and CEO
Transport Energy Strategies



Michael Wolinetz
Partner/Senior Consultant
Navius Research



Bob Larocque
President & CEO
Canadian Fuels Association

16:15 Scaling Up 2023 Feature Country - Spain



Session Chair: Eugenia Pérez
Forestry and bio-products Trade Commissioner,
Embassy of Canada to Spain



Marisa Hernández-Latorre
CEO
Ingelia



Carmen Avilés Palacios
Associate Prof. Business Management
Forestry Engineering School, Universidad Politécnica de Madrid, Spain



Luis Alberto Otero
Head of Innovation
Foresa Technologies

17:00 Project Finance



Session Chair: Christopher Angelo
Structured and Corporate Finance
New Energy Risk



Brett Jackson
President
Hydrogen Naturally (H₂N)



Duncan Ramage
Founder & CEO
Circle Bay Capital

17:35 Public Affairs in Ottawa and Washington DC: Pushing your 'ask' across the finish line



Bliss Baker
Vice-Chair
Sussex Strategy Group



Devin McCarthy
Partner and Federal Practice Lead
Sussex Strategy Group



Chris Hessler
Managing Partner
AJW Inc.

18:05



**Hospitality Suite /
Scotch Tasting with Beer Chasers**
Suite 258

Hosts: AJW Inc. &
Sussex Strategy Group



sussex



**Dinner at your leisure –
Byward Market Restaurants**
Recommendation: **Luxe Bistro, 47 York Street**

Wednesday, November 8, 2023

Adam Room

07:30



**Breakfast –
The Château Continental**
Hosts: Ontario Genomics &
CRIBE



The Gordon Webster Jazz Trio
Sponsored by:
Canadian Fuels Association



Canadian Fuels
ASSOCIATION
canadienne des carburants

08:15 Welcome Back



Jeff Passmore
Founder, Scaling Up
CEO, Passmore Group Inc.

08:20 Forest products for Advanced materials: Resins, adhesives, insulation, roofing, and beyond



Session Chair: **Chris Walton**
CEO
Centre for Research and Innovation in the Bioeconomy (CRIBE)



Adeel Baig
Director Chemical Technology
Woodbridge Foam Corp.



Maryam Arefmanesh
Senior Consultant North America Division
AFRY Management Consulting

08:55 Cultivating Carbon: Adding Value to Canadian Forestry & Agriculture



Chair: **Bruce Dudley**
Chief, Partnerships and New Initiatives
The Delphi Group

Delivering on FPAC's new carbon strategy



Mahima Sharma
Vice President – Innovation, Environment, and Climate Policy
Forest Products Association of Canada (FPAC)

Increasing Canadian biomass value and preventing forest fires. The art of the possible, and practical learnings from Finland



Jaakko Autere

Counsellor of Trade and Commercial Affairs
Embassy of Finland to Canada



Scott Ross

Executive Director, Canadian Federation of Agriculture
Co-Chair, Agricultural Carbon Alliance

09:25 Scaling Up: Success stories on the cusp



Chair: David R. Dodds
Dodds & Associates



Martin Vroegh

CEO
Hydrogenii Canada Inc.

Collaboration and Know-how: Scaling Up Biobased Products and Bioprocesses



Jean-Philippe Jacques

Directeur général
Innofibre

Unlocking Nature to Reshape our World



Markus Weissenberger

Chief Technology Officer
SixRing Inc.

10:05 Enabling zero emissions technology through de-risking investment



Meaghan Seagrave

Executive Director
Bioindustrial Innovation Canada

in conversation with:



Ziyad Rahme

Vice President Investments
Sustainable Development Technology Canada (SDTC)

and



Tom McCaffery

Executive Director Policy and Engagement
Emissions Reduction Alberta

10:30 The Scaling Up 2023 Feature Province – British Columbia



Session Chair: Sandy Ferguson
Principal
SF Consulting



Linda Coady
CEO
British Columbia Council of Forest Industries



Davis Chiu
Director of Innovation
Paper Excellence Canada



Gustavo Oliveira
Director, Innovation, Bioeconomy and Indigenous Opportunities
Ministry of Forests, British Columbia

11:05



Refreshment Break
Host: Walker



11:30 Bold Goals for U.S. Biomanufacturing – The White House, the IRA and the California LCFS: Will Canada be left behind?



Chris Hessler
Founding Partner
AJW Inc.



Michael Rensing
Past Program Leader, BC's Low Carbon Fuel Standard
President, MJ Rensing Consulting Inc.
Courtesy of Renewable Industries Canada

Chris and Michael will be interviewed by:



Lisa Hanke
Director, Regulatory Engagement
EcoEngineers

12:00 What's next in Canadian hemp for fibre: Replacing the nasties



Lelia Lawson
Research & Development Specialist
Davey Textile Solutions Inc.

12:15 Government of Canada and CSA Group - Bioeconomy status report:



Session Chair: Jeff Passmore
Founder, Scaling Up
CEO, Passmore Group Inc.

The role of sustainable agriculture in a thriving bioeconomy



Tom Rosser

Assistant Deputy Minister, Market and Industry Services Branch
Agriculture and Agri-Food Canada

Advancing contributions of the forest sector to the bioeconomy



Monique Frison

Director General, Trade, Economic and Industry Branch
Canadian Forest Service (CFS), Natural Resources Canada

Unlocking the Canadian bioeconomy through the development of standards



Lynn Barber

Manager Strategic Initiatives
Canadian Standards Association (CSA Group)

12:45 Biocarbon applications supporting industrial greenhouse gas reduction in primary steelmaking: Achieving net-zero



Session Chair: Catherine Cobden

President & CEO
Canadian Steel Producers Association



Laura Devoni

Director of Corporate Affairs and Sustainability
Algoma Steel Inc.



Graeme Scott

Programme Leader, Energy and CO₂
ArcelorMittal's Global R&D Lab



Katie Chan

Director Environmental Affairs
Stelco

13:15 The Wrap: Unlocking the Scaling Up Bio opportunity



Aish Mann

Graduate student
Kwantlen Polytechnic University, Vancouver

13:25 Closing Remarks / Door Prizes / Adjourn



Jeff Passmore

Founder, Scaling Up
CEO, Passmore Group Inc.

Speakers' Bios



Christopher Angelo
Advisor, Structured and Corporate Finance, New Energy Risk, California

Christopher Angelo joined New Energy Risk in 2018. He brings with him a wealth of expertise with over 15 years experience in banking, investing, and executive-level corporate finance. Prior to joining New Energy Risk, Christopher was chief financial officer at Silicor Materials Inc (formerly Calisolar Inc.), a solar manufacturing and R&D company. There he led the company's project financing and financial operations as the company scaled and ramped its solar cell and solar silicon technologies from R&D to two high volume manufacturing plants. Christopher holds a master's degree in Law and Accounting from the London School of Economics and Political Science, as well dual undergraduate degrees in Finance and Economics from Lehigh University.



Maryam Arefmanesh
Senior Consultant North America Division, AFRY Management Consulting

Maryam has over eight years of research and technical experience in the fields of chemical engineering and biorefinery. Since joining AFRY she has managed a number of projects related to bio-based chemicals and materials including advanced biofuels and lignin. She holds a Master's and Ph.D. in Chemical Engineering and Environmental Science from the University of Toronto where she focused on finding ways to valorize biomass as renewable resources to replace petroleum-derived chemicals. Maryam is an active member of the Canadian Standards Association CSA Group as part of the lignin technical committee.



Jaakko Autere
Counsellor of Trade and Commercial Affairs, Embassy of Finland to Canada

Jaakko became Counsellor of Trade and Commercial Affairs to the Embassy of Finland in Canada in February 2023. He previously worked over 30 years in international organizations in various industries for Fiskars, Iittala, L'Oréal, Kellogg's, Orkla, Olvi Breweries, Finnish Design Forum, and European Bank for Reconstruction and Development. His long experience in international management positions, board work, Finnish government, and private businesses give him unparalleled business insight. He is a graduate of University of Jyväskylä in Finland, with a Master Degree in Economics.



Adeel Baig
Director, Chemical Technology & Analytical Services, Woodbridge

Adeel is a graduate of Chemical Engineering from University of Detroit Mercy, Masters of Materials Science from Western Michigan University, and an MBA graduate from University of Michigan, Ross School of Business. In his 23 year career in the automotive industry he has held a variety of senior leadership positions in Engineering and Sales. His assignments took him to companies including Dow Automotive, Johnson Controls, Shawmut Corporation and Coastal Automotive. Adeel came to Woodbridge as a Product Director for the Flexible Foam and Lamination business unit. Soon after, he transitioned to leading the Chemical Research and Development group. Most recently, Adeel's responsibilities have expanded to include the Chemical Applications group, responsible for deploying new chemistry to all molded foam and slab facilities, and the P3T testing and analytical labs.



Bliss Baker
Vice-Chair
Sussex Strategy Group

Over the past 27 years, Bliss has been an innovator, practitioner and commentator in the Public Affairs arena both domestically and internationally. He has been an advisor to two Prime Ministers, Ministers, Members of Parliament and Cabinet. He was a senior advisor to several elected officials including the Chief of Staff to the Minister of Northern Development and Mines. His private sector experience includes Senior Executive roles in the banking and renewables industry and the pipeline industry. As a former Board Member of the Sierra Club, Bliss has had a lifelong passion for promoting public policies that protect the environment. His clients include a variety of renewable fuels companies, tech and energy-related firms, financial services, agriculture, manufacturing, first nations, clean technology providers, healthcare stakeholders and infrastructure-related firms. Bliss completed his post-graduate degree at the London School of Economics.



Lynn Barber
Manager Strategic Initiatives,
Canadian Standards
Association (CSA Group)

Lynn's is the CSA Group lead for their Bioeconomy Initiative which includes activities across the value chain from biomass source to end of use. She is passionate about helping advance the Canadian Bioeconomy through standards. Prior to taking on this cross-sector role, she managed Canadian and International standards development committees including having a leadership role in the Canadian-held Secretariat as the International Committee Manager for ISO TC/6 Paper, board, and pulps. She has over 25 years' experience working with a broad set of stakeholders across Natural Resource sectors including Oil & Gas, Forestry, Mining as well as working extensively with municipal governments on environmental issues. She has a degree in geological engineering and a master's degree in petroleum geology.



Barbara M. Campbell
Regional Director Atlantic
Natural Products Canada
(NPC)

Barbara's career spans business, technical and strategic development positions in biotech and life sciences where she propelled emerging technologies through proof of concept, prototype development, clinical validation, and multinational partnerships. Previously, Barbara provided pivotal insights on corporate positioning, business development strategies, intellectual property management, and contract negotiation. Her extensive national network and experience navigating regulatory landscapes for natural health products, alternate protein ingredients, bioproducts and biofertilizers make her a go-to resource for NPC's clients and partners. Barbara is an alum of Université de Strasbourg, Mount Allison University (Hons BSc. Biochemistry, B.A. French), and Simon Fraser University (M.Sc. Biochemistry and Immunology).



Madison Carroll
Executive Director, Council
on Sustainable Aviation Fuels
Accountability (CoSAFA)

Through CoSAFA Madison is working to develop a standardized, publicly available, transparent, and verifiable, environmental attribute accounting framework for Sustainable Aviation Fuel (SAF) book and claim transactions. Prior to her work with CoSAFA, Madison spent 11 years as a CH-53E helicopter pilot in the US Marine Corps. She holds a bachelor's degree in Mechanical Engineering and a master's degree in Environmental Planning and Management.



Katie Chan
Director, Environmental
Affairs, Stelco

Ms. Chan has been working in the steel sector for over 17 years. She began in the engineering department of an integrated

steel mill in Ontario, and then focused on environmental regulatory and policy dimensions while working at the Canadian Steel Producers Association. During this period, she advised and implemented strategies on environmental, climate change and energy policies for the Canadian steel industry. Katie has been working at Stelco for over a decade, where she oversees the environmental portfolio for the company's facilities in Hamilton and Nanticoke, Ontario. She holds a Bachelor's Degree in Environmental Engineering from the University of Waterloo, and a Master's Degree in Engineering for Sustainable Development from the University of Cambridge.



Davis Chiu
Director of Innovation, Acting Head of Carbon Strategy, Paper Excellence

Davis is a seasoned innovation professional with experience in advanced research, operations and innovation. Prior to joining Paper Excellence in 2021, he was Senior Manager in Deloitte's Global Investment and Innovation Incentives practice based in Vancouver. There, he assisted companies ranging from start-ups to multi-national corporations innovate. Previously, Davis held operations and technical leadership roles in the pulp and paper industry. He is a graduate of the UBC Chemical and Biological Engineering program. He is a proud second generation Canadian forest products professional, and is a board member of the Eagle Ridge Hospital Foundation, BC Net Zero Innovation Network, and UBC's Clean Energy Research Centre.



Linda Coady
President and CEO, British Columbia Council of Forest Industries

Linda was appointed President and CEO of BC COFI in July 2022. Previously, she was Executive Director of Alberta-based Pembina Institute, a leading Canadian environmental think tank on climate

and energy. She also served as Chief Sustainability Officer, Enbridge Inc.; Vice[1] President Sustainability, Vancouver 2010 Winter Olympic Games; Vice-President Pacific Region, World Wildlife Fund Canada; and Vice-President, Environmental Affairs, MacMillan Bloedel Ltd and the BC Coastal Group of Weyerhaeuser Canada. Linda has been a Distinguished Fellow at the Liu Institute for Global Issues at the University of British Columbia. She has served as a member of the City of Vancouver's Greenest City Task Force, the 2015 Advisory Panel to the Province of Alberta on Climate Leadership, the 2018 Generation Energy Council on Canada's Energy Future, and Canada's Net-Zero Advisory Body.



Catherine Cobden
President & CEO Canadian Steel Producers Association (CSPA)

Since joining the CSPA in January of 2019, Catherine spearheaded the development of a leadership climate strategy for the association, and secured critical changes to Canada's trade remedy regime. Prior to taking the helm at the CSPA, Catherine ran a consultancy providing strategic advice to clients in manufacturing, mining, construction, and the forest sector. Catherine also spent 13 years at the Forest Products Association of Canada (FPAC) where, as Executive Vice President, she played a key role in developing the sector's long-term transformation strategy in response to changing market dynamics. For the last two years, Catherine has been named one of Canada's Top 100 Lobbyists. She served on the Premier's Council on US Trade and Industry Competitiveness & the Advanced Manufacturing Council in Ontario. She is on the Board of the Canadian Climate Institute. She is a Chemical Engineer from University of Toronto.



Laura Devoni
Director of Corporate Affairs and Sustainability Algoma Steel Inc.

Laura has been with Algoma Steel for 19 years. She began her management career in Marketing then moved to Trade and Economics, then Government Affairs and Environment, which lead to her current position as Director of Corporate Affairs and Sustainability. She is currently active with the Decarbonization Leaders Network, the Association of Women in the Metals Industries, the Metal Service Centre Institute, Canadian Manufacturers and Exporters and currently serves as the Chair of the Climate Committee of the Canadian Steel Producers Association.



David R. Dodds
*Dodds & Associates
LLC*

David has over 30 years' experience leading interdisciplinary process development groups combining biological and chemical technologies to create new industrial processes. He established Dodds & Associates in 2002 to provide technical expertise and management to start-up companies in bio/pharma, industrial biotech and renewable chemicals. He provides technical diligence to the investment community and expert witness service for patent infringement cases. His current work in biobased chemicals includes the electrochemical regeneration of enzyme cofactors, to allow metabolic pathways to reach 100% carbon efficiency and avoid CO2 production. David pursued post-doctoral work in molecular biology with Marvin Caruthers at the University of Colorado (1984-1986), Boulder. He obtained his Ph.D. in synthetic organic chemistry under Bryan Jones at the University of Toronto in 1984.



Bruce Dudley
*Chief, Partnerships and New
Initiatives, Delphi Group*

Bruce is a senior consultant with Delphi's Corporate Sustainability and GHG Services and the GLOBE Series of events. His primary responsibility is to offer strategic advice to organizations on various aspects of Sustainable Development and Carbon

Management planning and execution. Previously, Bruce led Delphi's Health and Environment practice and was recognized as one of Canada's leading experts in the strategic integration of health and environmental issues. Bruce has been involved in environmental consulting for almost 30-years and is in the process of transitioning to his next passion - planting Miyawaki Mini-Forests in Ottawa and surrounding communities. His goal is to plant 24 mini-forests by 2030.



Scott Farrow
*VP Innovation and Research
Operations, Solar Biotech
Canada*

Prior to becoming VP at Solar Biotech, Scott was Director of Biological Discovery, and later VP of Innovation at Noblegen Inc. Previously, Scott worked as a post-doctoral fellow in the laboratory of Prof. Sarah O'Connor at the John Innes Centre. He earned a PhD in Biochemistry from the University of Calgary. Scott's discoveries have led to numerous high-impact publications, patents, substantial investment funding, and the establishment of two thriving biotech companies. His background in academia and industrial biotechnology equips him to successfully translate laboratory discoveries into market-ready innovations.



Sandy Ferguson
*Principal,
SF Consulting*

Sandy heads up SF Consulting, an independent forest and bioeconomy advisory company. Throughout her career she has worked in senior business development and strategic roles with private, not-for-profit, and government organizations. She most recently served as VP Corporate Affairs at Conifex Timber Inc. a Canadian forest products and biomass power producer, and the Director of Marketing at the BC Bioenergy Network. She is a board member of Bioindustrial Innovation Canada and the Canadian Bioeconomy Conference.



Brian Foody
President and CEO,
logen Corporation

Brian joined logen in 1982 and became the company's CEO in 1986. He has been responsible for the formation and operation of the company's strategic alliances and overseen logen's technology development and positioning. Under his leadership, logen became a world leader in cellulosic ethanol, and built a successful business manufacturing industrial enzymes. Brian holds Bachelors degrees in Mechanical Engineering and Civil Engineering and a Masters degree in Mechanical Engineering from the Massachusetts Institute of Technology, all received in 1980.



Monique Frison
Director General, Trade,
Economic and Industry
Branch, Canadian Forest
Service (CFS), Natural
Resources Canada

Monique's team at CFS is responsible for Canada's commitment to plant two billion trees by 2031; supporting research, development and deployment of innovative processes and forest products - including accelerating the development of the forest bioeconomy; forest stewardship and economic opportunities in Indigenous communities, and international relations. Monique has held various high-profile positions across the Federal Public Service, including at Health Canada, Public Services and Procurement Canada, Infrastructure Canada, Immigration, Refugees and Citizenship Canada and Global Affairs Canada. Internationally, Monique has held positions with the International Organization on Migration, as well as with Global Affairs Canada in Washington DC. Monique hails from Cape Breton Nova Scotia, but currently lives in Ottawa.



Fred Ghatala
Director, Carbon and
Sustainability, Advanced
Biofuels Canada

Fred is the Director for Carbon and Sustainability of Advanced Biofuels Canada (ABFC), a national industry association established to promote the production and use of advanced biofuels in Canada. Fred leads ABFC's work to establish biofuel carbon value, lifecycle analyses in regulations, and sector engagement in sustainability initiatives. Fred has 14 + years experience in the Canadian renewable fuels sector, and is a partner in Waterfall Group.



Derek Griffin
Green Tech Solutions,
Munich RE

Derek is a Chemical Engineer working in the GreenTech solutions group of Munich RE, which offers innovative technology risk-transfer solutions for industrial clients in the bio-circular economy space. A key benefit of the insurance is the transfer of technology performance risk from project investors & lenders to the insurer to enable and improve project financing. The GreenTech focus on the circular economy is aligned with Munich RE's global decarbonization strategy by providing unique insurance solutions for companies with bioenergy, waste to energy, carbon recycling, and other green technologies. Derek previously worked for LanzaTech as a Technology Manager focused on scale-up and commercialization of a novel gas fermentation technology.



Bettina Hamelin
President and CEO,
Ontario Genomics

Ontario Genomics is an Ontario-based not-for profit organization dedicated to catalyzing and supporting the development and commercialization of genomics, and engineering biology-based solutions across key sectors of the economy to drive economic growth, improved quality of life and global leadership for Ontario. Dr. Hamelin has over 30 years' experience in academia, industry, and not-for profit organizations. She has held leadership

positions at BioChem Pharma, and Pfizer Canada; Medical Director, Pfizer Germany; Global Scout, Pfizer Inc. She has 10 years of academic research expertise as a tenured professor at Université Laval. Prior to her current role, she served as VP of NSERC's Research Partnerships Directorate, where she was responsible for stimulating increased public/private sector collaboration and technology transfer. Bettina serves on several advisory committees, chairs the National Engineering Biology Steering Committee, and serves on Ontario's COVID-19 Genomics Network Steering Committee.



Lisa Hanke
*Regulatory Engagement
Director, EcoEngineers*

Lisa has nearly 20 years' experience leading government relations and regulatory outreach in North America and Europe. She serves as EcoEngineers policy and regulatory engagement expert. She is responsible for staying current on key local, state, national, and international legislative, regulatory, and policy developments. She analyzes policy developments and how they fit within government decarbonization goals and efforts. In previous positions, Ms. Hanke provided technical and business leadership, advocacy, and support to members of the Canadian Fuels Association. She also spent 16 years leading global government affairs for clean technology companies Enerkem and Iogen. Ms. Hanke advocated for biofuels and renewable energy under the low-carbon fuel standards in Canada, British Columbia, the United States, the European Union, California, and other emerging markets.



Marcus Hardy
*Chief, Red Rock Indian Band,
Lake Helen Reserve*

Marcus was elected Chief of Red Rock Indian Band in September 2019. He lives with his wife and is the proud father of 7 beautiful children. At age 36, Marcus is the youngest elected Chief in the history of his community. As Chief, his priorities are the

sustainability of his First Nation, Youth, and Elders and the restoration and preservation of the Anishinaabek culture and language. He volunteers as a firefighter, minor hockey coach and President of the Red Rock Minor Hockey Association. A focus area for RRIB is improving existing community infrastructure in addition to exploring and implementing energy-efficient options to suit the needs of the growing community. RRIB manages its forest, which widens the possibilities in the Bio-economy space for his community to explore further initiatives to become self-sustainable and exercise their sovereignty. Before being elected Chief, he had a 16-year career in the Canadian Armed Forces, during which he led a section of troops on various patrols and successful missions in Afghanistan. Marcus has been awarded several Commendations and Medals.



Jordan Hatton
*Director, Economic
Development, Bingwi
Neyaashi Anishinaabek (Sand
Point First Nation)*

Bingwi Neyaashi Anishinaabek is a formerly displaced First Nation that is in the process of rapidly developing its reserve lands on the south-east shores of Lake Nipigon, Ontario. Jordan is responsible for all on-reserve infrastructure developments, housing and land management, on and off-reserve business developments including the Papasay Value-Added Sawmill operation, forestry and mining agreements, employment and training matters, and regional, multi-First Nation initiatives, all off-reserve consultation matters, and sits on multiple Boards for the community. Jordan is responsible for six staff in his department, budgeting for dozens of projects and initiatives, and all funding applications and reporting requirements associated with these Projects. He has been working with First Nations for the last 13 years in various resource development, lands and economic development-related positions. He received his Master's Degree in Political Science from the University of Guelph in 2008, and enjoys spending time with his partner, family and friends, travelling the world, fishing, golfing, and heavy metal festivals.



Marisa Hernández-Latorre
CEO
Ingelia

Ingelia is leading the development of HTC technology to transform wet biomass and biowaste into hydrochar. The firm has operated an industrial HTC plant since 2010, and has commercially launched HTC biocoal into the solid fuel market. Ingelia is also leading an international technology deployment with more than 50 HTC projects in the pipeline - bringing innovation into practice. Marisa has been at Ingelia since 2007 and, with responsibility for the commercialization of HTC technology, developing the Spanish market, and company investor relations, has closed three capital raise rounds. She is now structuring Ingelia's group to implement Ingelia's technology within Europe establishing Ingelia Italia for Italian deployment and has closed commercial agreements with CPL Industries for the deployment in the UK. She has served as CEO since 2009. Marisa is an industrial engineer (Politechnic University of Valencia) with an Executive MBA, and 20 years experience with innovative startups launching and consolidation.



Chris Hessler
Managing Partner,
AJW Inc.

Christopher Hessler founded the government relations firm AJW and is recognized as one of the country's foremost experts in environmental market mechanisms and renewable fuels policy. With three decades of experience, he specializes in leveraging public policy to help clean technologies enter and thrive in energy and environmental markets.



Doug Hooper
Director Policy & Regulation,
Advanced Biofuels Canada

Since 2005, Doug has helped lead the development of Canada's advanced biofuels sector. He has worked directly on all key federal/provincial energy and

climate action policies, including program support to build biofuel production capacity and expand clean fuel use in Canada. He is the Past Chair of the Canadian Renewable Fuels Association.



Brett Jackson
President
Hydrogen Naturally (H₂N)

Brett is an Alberta based entrepreneurial engineer always in search of a meaningful problem to address. He found one in the challenge to decarbonize our energy industry and reduce CO₂. As President of H₂N, Brett plans to build the world's largest carbon removal and negative emission hydrogen hub, first in Alberta, and ultimately building four hubs to remove 1 GT of CO₂ from the air while producing large amounts of bright green hydrogen using low value forest harvest residuals. Prior to H₂N, Brett started a company which engineers and manufactures steel moulds used for large scale precast concrete infrastructure projects. He also founded a company to develop and manufacture gasification systems for turning hard to convert high carbon feeds into hydrogen and CO₂ recently used in the Sturgeon Refinery - the first refinery to have integrated carbon capture. Both companies are still in operation today, and gave Brett a deep understanding of how to start ventures and build meaningful infrastructure.



Jean-Philippe Jacques
Directeur général
Innofibre

Jean-Philippe holds a bachelor's degree in mechanical engineering, and a master's degree in energy and materials science. Working for several years in the family recycling business, Jean-Philippe acquired solid expertise in business development and strategic partnerships. His expertise and leadership then led him to take on a management position at Innofibre in January 2018. Since then, he supervises the research work while maintaining a collaborative project approach. According

to Jean-Philippe, teamwork is the key to success in accelerating technological development and scientific innovation.



Shelley R. King
*Chief Executive Officer,
Natural Products Canada
(NPC)*

As founding CEO of NPC, Shelley King has positioned Canada as a global trailblazer in the natural product sector. For over 25 years, she has married her scientific background in academia with her in-depth knowledge of entrepreneurship and industry to help Canadian innovations go from bright idea to market-ready product. NPC has built a 3000+ network, advanced more than 1500 companies, invested in 13 early-stage enterprises, and experienced two exits. To date, they have an impressive track record of helping clients raise \$64 for every \$1 distributed by NPC. A risk-taker, relationship broker, and bridge builder, Shelley holds an MSc in medicine and an MBA from Memorial University.



Tammy Klein
*Founder and CEO
Transport Energy Strategies*

Transport Energy Strategies provides market and policy intelligence, research analysis and strategic advice to clients on a range of global transport energy issues. Tammy runs a member-based consulting service, the Transport Energy Outlook, which provides research analysis and competitive intelligence on global trends across a wide spectrum of sectors. For over 25 years, she has served as strategic advisor for a broad range of clients in the energy industry globally, as well as governments and NGOs. She holds a J.D. from the Georgetown University Law Center and a B.S. in Journalism from the University of Florida. She is a member of the Virginia and District of Columbia bars.



Jim Lane
*Editor & Publisher
The Daily Digest*

Jim is the editor & publisher of The Daily Digest, the world's most widely read bioeconomy daily with 5.9 million readers globally. He is the co-founder of the Advanced Bioeconomy Leadership Conference (ABLC) series, and founder of The Circular, Reenergize, and Robin.stream.



Bob Larocque
*President & CEO
Canadian Fuels Association*

Bob, a native of Hawkesbury Ontario, joined the Canadian Fuels Association as President and CEO in September 2020. He is proud to represent Canada's innovative fuels sector, and the critical role the sector plays to provide reliable, safe and environmentally responsible transportation energy to all Canadians. Bob leads the Association in driving policies that improve environmental performance, protect industry competitiveness and strengthen Canada's critical energy infrastructure. Focusing on maintaining an open dialogue between industry and government, its stakeholders and the public are priorities. Bob also strongly believes that the Association can offer access to information and analysis in order to help drive informed policy decisions. Prior to joining the CFA, Bob was Senior Vice-President at the Forestry Products Association of Canada where he supported the sector on policy and technical issues relating to climate change, innovation, Indigenous engagement and environmental regulations. Mr. Larocque was also responsible for supporting the sector in achieving its "30 by 30 Climate Change Challenge". Bob attended the University of Ottawa graduating with an Honours Degree in Chemical Engineering. He resides in Ottawa with his wife Tara and their three children.



Lelia Lawson
*Research & Development
Specialist, Davey Textile
Solutions Inc.*

Davey Textile Solutions Inc., is a Canadian

manufacturer of high visibility striping. Lelia has a BSc and MSc in Human Ecology (Textiles & Clothing) and is currently enrolled in the Human Ecology Doctoral Program at the University of Alberta researching regenerated cellulosic fibres from hemp feedstock. Her experience in the textile industry spans over 20 years, specializing in industrial personal protective clothing. Her continuing passion is in hemp, and seeing this amazing plant become part of Canada's bioeconomy revolution.



Ian MacGregor
Executive Chair
Hydrogen Naturally (H₂N)

From a young age, Ian has followed his mother's sage advice: "When someone tells you that you can't do something, that just means they can't do it. It has nothing to do with you." MacGregor is an entrepreneur who likes to build projects from the ground up. He embraces technical complexity, demonstrated in the \$10 billion Sturgeon Refinery project he spearheaded. He also conceived and built the Alberta Carbon Trunk Line, the largest system in the world for the capture and storage of manmade CO₂. After earning his Bachelor of Science in mechanical engineering from the University of Calgary in 1971, MacGregor decided he'd earn a better living as a welder. He often embarks on endeavors others conclude are not economically or technically viable, specializing in building and/or fixing big pieces of missing infrastructure. He is now working on building a world scale carbon removal and green hydrogen hub. Using forest waste left behind from forest operations, and marginalized trees not processed by sawmills, the hub's natural air capture facility makes and sequesters CO₂, as well as making renewable fuels. The goal is to remove 1 GT of CO₂ from the atmosphere and make large quantities of clean hydrogen.



David Mackett
Director, Sagatay
Cogeneration and Wood
Pellets, Whitesand First
Nation Bioeconomy Centre
(BEC)

David has worked exclusively with First Nations since 1993 and has had an extremely challenging and rewarding journey with many accomplishments which have built lasting friendships during this time. In 2009, BEC began as the cornerstone of the Community Sustainability Initiative - a forward-thinking effort that aims to lead Whitesand forward out of economic despair, address social needs, cultural preservation, and environmental integrity through management of the local forest and biomass energy production. David will tell the story of the Whitesand First Nation Bioeconomy Centre, and share the barriers faced, the achievements and the partnerships realized, and how perseverance is essential to the success of biomass projects. He enjoys golfing, boating, and helps his wife Valerie run New Hope Dog Rescue, a not-for-profit organization which finds forever homes for abandoned and abused dogs.



Aish Mann
Graduate student, Kwantlen
Polytechnic University,
Vancouver

An economist/writer turned environmentalist, Aish has over 8 years' experience in multiple disciplines that give her robust agility and the ability to bring a diverse point of view to the table. Aish is currently a graduate student of Green Business and Sustainability Management at Kwantlen Polytechnic University, British Columbia and spends most of her time involved in youth-led environmental projects be it engagement or education centric. She is interested in creating a circular economy, impact investing, and unlocking innovation to accelerate the transition to clean technology.



Tom McCaffery
Executive Director Policy
and Engagement, Emissions
Reduction Alberta (ERA)

As Executive Director of Policy and Engagement with ERA Tom leads initiatives that build and strengthen communications,

foster strategic partnerships, and enhance relationships with federal and provincial policymakers, industry leaders, and other stakeholders. He has extensive experience executing strategy, leading high performing cross-functional teams, and finding innovative ways of creating shared value in manufacturing, aerospace, government, and applied academia. Before joining ERA, he was Senior Advisor for cleantech, agriculture, defence, manufacturing and supply chain with Prairies Economic Development Canada (PrairiesCan). Prior to that, as President and CEO of Supply Chain Canada – Alberta Institute, Tom developed a growth strategy that stabilized and grew the institute during the pandemic. Tom has authored and co-authored academic papers on competitive advantage, customer value, dynamic management capabilities, and export readiness. He holds a master's degree, and spent the first 25 years of his career developing successful business strategy and international supply chains from Antarctica to the Maldives. He plans to spend the next 25 helping companies unlock growth in cleantech and clean resources. He is completing his first book on managing values in complex organizations.



Devin McCarthy
*Partner, Federal Practice
Lead, Sussex Strategy Group*

As Senior Vice President and Federal Affairs Practice Group Lead, Devin has dedicated his career at Sussex and beyond to working on energy, environment, agriculture, industrial, healthcare, and technology policy matters. With over 15 years experience in the Nation's Capital, Devin's expertise lies in energy system transitions, clean technology development and deployment, and environmental policy. He has played a key role in shaping federal policy such as the carbon pricing backstop system and clean technology investment tax credits. He has helped secure billions of dollars of federal funding for clean tech, clean energy, and industrial decarbonization projects. His extensive network and experience have enabled him to build lasting relationships between

clients and key federal officials. He also worked in the Privy Council Office and as a founding member of a Toronto-based media start-up. He also has significant experience navigating the political process in Washington, DC. Devin holds an Honours degree in Economics from Queen's University.



Anjana Meel
*Managing Consultant,
Commercial Sustainability
Team, Guidehouse*

Anjana has over 15 years experience in the public and private sector in the US and Canada. Prior to joining Guidehouse, she worked with the Ontario Public Sector on developing low-carbon fuel regulations, GHG reduction targets, and helped with developing the biochemical sector in Ontario. Anjana's private sector experience includes working with renewable gasoline and carbon capture start-ups in California and with Dow Chemicals in Philadelphia. She holds a PhD in Chemical Engineering from the University of Pennsylvania and Bachelor's in Chemical Engineering from IIT Bombay. She recently completed her Executive MBA from the Rotman School of Management at the University of Toronto.



Kyla Morrisseau
*Consultation Coordinator/
Climate Change Specialist &
20/20 Catalyst 2018 Cohort
of Animbiigoo Zaagi'igan
Anishinaabek First Nation*

As the first point of entry for all industrial undertakings, Kyla's main priority is protecting the rights and interests of Animbiigoo Zaagi'igan Anishinaabek, along with teaching her community how to adapt to a changing climate. She sees the absolute value in using green/clean energy to fight Climate Change and lower carbon emissions for the next generations. Kyla also works closely with their Community Planner and Development Manager to research best practices as they push forward with the construction of the new community. She

has been exploring clean energy initiatives to help her community move forward to achieve its Green Community vision. She has a profound passion for environmental preservation and protection. She believes if humanity works together to understand and carry out these clean energy initiatives, our world will still be here seven generations from now. She has strong feelings towards youth engagement, talking and listening to them, including them in the dialogue, and teaching them new ways of seeing. Kyla is the proud mother of six Ojibway children and co-author of The Palgrave Handbook of Global Arts Education.



Hamid Noori
Founder and CEO,
The Cultivated B (TCB)

As an internationally distinguished scholar, Dr. Noori is an expert in developing methodologies to elude complex biological systems. He received his PhDs in mathematics and physics from Universities of Heidelberg and Kaiserslautern and was honoured with Venia Legendi from the Medical Faculty Mannheim of Heidelberg University. He has received numerous awards for his work conducted at world leading institutions, such as Princeton, MIT, Max Planck Society, and IHES. In 2021, he was accepted as a full member of Sigma Xi (MIT Chapter), with notable alumni such as Albert Einstein, Enrico Fermi and James Watson. His latest academic appointment previous to TCB was as deputy director of a Chinese Academy of Sciences institute in Shanghai.



Gustavo Oliveira
Director, Innovation,
Bioeconomy and Indigenous
Opportunities, Ministry of
Forests, British Columbia

Gustavo has been involved in the natural resource sector across Canada as a public servant for over a decade. His work has focused on the socio-economic and business opportunities that resource development projects bring, particularly in rural and remote communities. His work spans mining, oil and gas, and now forestry,

with a focus on partnerships with Indigenous communities. Gustavo currently leads the development of British Columbia's forest bioeconomy, aiming to transition the sector from high volume to high value, increase domestic manufacturing, and create new high paying jobs through research, innovation, and commercialization of novel, forest-based bioproducts.



Luis Alberto Otero
Head of Innovation
Foresa Technologies

Mr. Otero is a chemist with more than two decades experience in innovation and sustainability. He has spent his entire career at Foresa and Foresa Technologies. Established in 1964, Foresa is dedicated to the production of Formaldehyde and Adhesives for use in wood industries. Foresa is part of the group FINSA, one the biggest wood processors in Spain. The company has an environmental policy that highlights its commitment toward developing solutions that enable sustainability. Foresa is a proponent of Green Chemistry, using production systems that respect the environment and that are continuously developing new products and technologies focused along this line.



Carmen Avilés Palacios
Associate Prof. Business
Management, Forestry
Engineering School,
Universidad Politécnica de
Madrid, Spain

Carmen has extensive experience in research, transfer and training projects on entrepreneurship, innovation and sustainable organizations with a clear focus on forest bioeconomy and nature-based solutions. As a professor of Business Management, she has participated in numerous educational innovation projects, and published numerous research papers. She has been keynote-speaker at more than 30 international conferences, and is a promoter of the Hub for innovation and entrepreneurship in forest bioeconomic: treeNNOVA. She has coordinated national and international projects

focused on nature-based entrepreneurship including Urban Forest Innovation Lab. She was chairwoman of the FAO/UNECE Specialist Team - Green Jobs, as well as member of the Forestry Flagship Decision Support Group, an initiative of the European Institute of Innovation and Technology (EIT).



Vik Pandit
CEO and co-founder
Phycus Biotechnologies Inc.

Vik has a MAsC in Chemical Engineering and a PhD in Metabolic Engineering from the University of Toronto. Phycus Biotechnologies is a company that Vik spun out of the University of Toronto after completing his PhD studies in 2017. Phycus is a sustainable manufacturer of ingredients for the cosmetics and personal care industry. Its first sustainable ingredient is a 100% biobased glycolic acid for skincare products.



Jeff Passmore
CEO, Passmore Group Inc.;
Chair, Scaling Up

Jeff's expertise includes strategic investor relations, project capital attraction, site location assessment, and corporate communications. In 2010, he launched the management consultancy Passmore Group Inc. In 2016 he created Canada's Bioeconomy business conference "Scaling Up" focussing on the commercialization of biobased technologies. He has served on the CleanTech Advisory Board of the Department of Foreign Affairs, and on Canada's National Advisory Board on Energy Science & Technology. He is the Past Chair of the Canadian Renewable Fuels Association, the Canadian Wind Energy Association, the Solar Energy Society of Canada, Past Vice-Chair of the Independent Power Producers' Society of Ontario, and Past President of the Ottawa Chapter of the International Association for Energy Economics.



Eugenia Pérez
Forestry and bio-products
Trade Commissioner,
Embassy of Canada to Spain

Eugenia joined Global Affairs Canada in 2019 as Trade Commissioner leading the bioeconomy sector. She is the first point of contact for Canadian entities seeking to do business in Spain. In her role, Eugenia helps Canadian companies and organizations by providing tailored market information and promising business leads. She has coordinated events in the Bioeconomy connecting Canadian companies with the business ecosystem in Spain and Europe. She coordinates some of the Embassy's initiatives related to diversity and inclusion and Business Women in International Trade activities. With over 10 years experience, Eugenia has worked for the Spanish Export Promotion Agency as International Trade and Policy Advisor based in Brussels. She graduated in Law and Business, and holds an MBA in International Business Management.



Ziyad Rahme
Vice President Investments,
Sustainable Development
Technology Canada (SDTC)

Ziyad joined SDTC in 2016. As Vice President, Investments, Ziyad ensures that the organization is sourcing and nurturing innovative clean technology companies that have the potential to deliver strong environmental and economic benefits to Canada. He oversees the day-to-day operation of the SDTech Fund investment process, from intake through to assessment, selection and recommendation of investments to SDTC's Project Review Committee and Board (approximately \$90-100M/year of allocated investment).

Prior to joining SDTC, Ziyad spent 18 years at Iogen Corporation. As EVP Operations and Engineering, and General Manager of Iogen Energy, he successfully led the commercialization of Iogen's cellulosic ethanol technology, and completed construction and start-up of a US\$105M industrial scale facility with its partner Raízen. Ziyad holds an M.B.A., an M.Sc. in Environmental Engineering and a B.A.Sc. in Chemical Engineering.



Michael Rensing
*President, MJ Rensing
Consulting Inc.*

Michael was part of the British Columbia public service for 20 years. As Executive Director of the Low Carbon Fuels Branch, Electricity and Alternative Energy Division at the BC Ministry of Energy, Mines, and Low Carbon Innovation, he led the development of BC's Low Carbon Fuel Standard Program which has been responsible for ~30% of the emission reductions achieved by the province, making it one of the most successful low-carbon fuels programs in North America. Michael is the 2021 recipient of the BC Bioenergy Network's Sector "Champion" Award for outstanding leadership and contribution to the bioenergy sector in BC. As President of MJ Rensing Consulting, he provides strategic guidance to companies seeking to understand low carbon opportunities, and prosper in the low carbon economy. He holds a Ph.D. in Physics from the University of Victoria.



Scott Ross
*Executive Director, Canadian
Federation of Agriculture*

Scott is a strong advocate for Canadian agriculture, and is committed to working collaboratively with industry and government stakeholders to advocate for effective agricultural policy solutions with a focus on promoting long-term agricultural competitiveness, rural sustainability, economic development, and continual innovation. Prior to his current role, he completed a Masters of Applied Environmental Studies (MAES) in Local Economic Development with a research focus on alternative food networks and regional governance in a Canadian context.



Tom Rosser
*Assistant Deputy Minister
(ADM), Market and Industry
Services Branch, Agriculture
Canada*

Tom has been part of the senior management

team at Agriculture and Agri-Food Canada (AAFC) since 2017, and became ADM, Market and Industry Services Branch in 2021. His responsibilities include trade negotiations, agriculture and agri-food sectoral competitiveness, emergency management and departmental regional offices. Previously, Tom served as the department's Assistant Deputy Minister of Strategic Policy. Before joining AAFC, Tom held senior positions at Fisheries and Oceans Canada, and Natural Resources Canada.



Pierre Ruel
*Director Strategy and Policy,
Boeing Canada*

As Director, Strategy and Policy for Boeing Canada, Pierre contributes to the development of strategic programs and initiatives in support of The Boeing Company's core business interests in Canada including sustainable aviation fuels. His broad aviation background includes 37 years with the Royal Canadian Air Force (RCAF), Ornge, and Transport Canada. He is a former fighter pilot with combat experience and 3500 flying hours. He holds a valid Airline Transport Pilot license (ATPL) with an Instrument Flight Rules (IFR) rating and a seaplane endorsement.



Meaghan Seagrave
*Executive Director,
Bioindustrial Innovation
Canada (BIC)*

Meaghan is a nationally recognized thought-leader in the bioeconomy and has been spearheading research and innovation opportunities across the country for almost a decade. Prior to joining BIC, she was Executive Director of BioNB, a high-impact NGO focused on providing support to companies and stakeholders in New Brunswick's bioscience sector. She also served as Chief Executive Officer of New Brunswick's Health Research Foundation. She has a graduate degree in agricultural sciences and several certificates and diplomas in communications and management development. Her influence is national in scope and brings industry and association collaborators together building

strong partnerships across a multitude of science, and technology sectors. She serves in leadership roles on several regional and national boards in support of entrepreneurs, research, innovation and investment entities.



Graeme Scott
Programme Leader, Energy and CO₂, ArcelorMittal's Global R&D Lab

Graeme leads a team of researchers focused on process improvement and industrial greenhouse gas reduction in primary steelmaking. He has over 10 years' experience in industrial R&D, beginning his career as a researcher in Coal, Coke, and Ironmaking. In recent years, his research work has focused on biocarbon applications in steelmaking. Graeme is also Vice-Chair of the Canadian Carbonization Research Association (CCRA) which has worked with the Canadian Steel Producers Association to develop an R&D roadmap to achieve net-zero steelmaking in Canada by 2050.



Mahima Sharma
Vice President Innovation, Environment, and Climate Policy, Forest Products Association of Canada (FPAC)

Mahima oversees the development of the forest industry's position on key mill-focused environmental topics including climate-change, water, air, and chemicals, as well as advancing the role forest-sector innovation plays in a low-carbon economy. This work is central to supporting industry investment and the sector's competitiveness in Canada to support decarbonization objectives, and advance a forest-based bioeconomy. She oversees a team that conducts analysis and reporting of key sustainability performance indicators including energy, environment, and health and safety for the pulp and paper and wood products sectors. This work is instrumental in ensuring that FPAC maintains its reputation for housing the latest and most relevant scientifically verified data on environmental performance. Mahima has a Master of Chemical Engineering, as well as two undergraduate degrees in Chemical

Engineering and Biochemistry from the University of Ottawa. Most recently, she completed a Certificate of Climate Change Policy and Practice from the University of Toronto. She is currently a Board Director with the Centre for Research Innovation in the Bio-Economy (CRIBE).



Jordan Solomon
President and CEO, ECOSTRAT Inc.

Jordan has been President and CEO of Ecostrat for over 20 years where he oversees the Biomass Advisory Group and the Biomass Supply Group. He has overseen the supply of more than 5MM tons of biomass feedstock to projects around North America. As head of Ecostrat Advisory, Jordan has led supply chain de-risking teams for JP Morgan, Shell, Enviva, NREL, DTE Energy, Macquarie Bank, Tennessee Valley Authority (TVA), Southern Company, Rentech, Noreasco, EDF, Sweetwater, Solvay, McKinstry, LaFarge, PGE, Eastman, Coca-Cola, Johnson Controls, Siemens, and the Canadian government. He is presently the leading partner with US National Laboratory INL in a 5 year project to develop the new US National Standards for Biomass Supply Chain Risk for the US Department of Energy.



Jamie Stephen, PhD
Managing Director, TorchLight Bioresources

Dr. Jamie Stephen is the Managing Director of TorchLight Bioresources, a decarbonization strategy and policy advisor for national, provincial, and municipal governments, First Nations, utilities, airlines, large industrial emitters, property developers, and investment funds. Projects range from the development of energy facilities to national strategies on meeting Net Zero targets. He has two decades of experience in the bioenergy industry, working at the interface of the energy, forestry, agriculture, and waste sectors. Dr. Stephen holds a PhD in Forest and Energy Economics and a Masters in Chemical and Biological Engineering from the University of British Columbia. After growing up in the prairies and spending over a decade

in Ontario, he now resides with his wife and three daughters in Nova Scotia.



Geoff Tauvette
Executive Director, Canadian Council for Sustainable Aviation Fuels

With more than 25 years experience in integrating aviation fuel procurement, environment, and climate risk management, Geoff is a senior leader in commercial aviation, and an engineering professional at the forefront of airline sustainability. This gives him a unique perspective on creating a sustainable aviation fuels market in Canada to support decarbonizing the aviation industry. His past responsibilities centred around setting direction on aviation environmental sustainability strategies, being an industry advocate in the design of aviation climate policy and regulatory measures, and reducing aviation emissions through stakeholder collaborations to advance the use of sustainable fuels and other emissions reduction initiatives. Geoff holds a master's degree in civil engineering, and is a fellow of the Alberta Energy Futures Lab - a sustainability-driven, innovation-focused initiative whose vision is to accelerate the clean transition of Alberta's energy system. He serves on the Board of the Clean Resource Innovation Network.



Florent Thévenin
Founder & CEO, Digital Networking for Thought Leaders (DN4TL)

As a natural communicator, leader and entrepreneur, Flo has produced multimedia projects globally since 2008. In 2017, he co-created TheFutureEconomy.ca, a Canadian-focused site of leader interviews on the future economy, where he built an influential national network and social media following. Previously, Flo produced high-profile investment profiles in Africa, the Middle East, Southeast Asia and Canada, where he also organized 3 high[1] level conferences in Alberta. He speaks 4 languages, has lived and worked in 12 countries and 3 Canadian provinces

(AB, BC, QC), and has conducted over 1,500 top-level leader interviews globally. In autumn 2021, Flo launched DN4TL to leverage his passion for business development, his extensive real-life networking experience and connections, and his affinity with technology, to help Canadian leaders connect and grow their social media influence.



Charles Vincent
Senior Assistant Deputy Minister (ADM), Industry Sector, Innovation, Science and Economic Development (ISED)

ISED's Industry Sector provides advice on issues of Canadian industrial policy, based on the sector's economic and technological expertise, and addresses a broad range of Canadian industries in the context of global markets, supporting government decision making on policies and programs to enhance innovation, competitiveness and the productivity of Canadian industry. Previously, Charles was ADM, Small Business, Tourism and Marketplace Services Sector at ISED. Prior to this, Charles held executive roles at ISED, including responsibility for the Made-in-Canada industry mobilization initiative during the COVID-19 pandemic, as well as the Automotive, Transportation and Digital Technologies branch. Before joining ISED, Charles served as an executive at the Treasury Board of Canada Secretariat.



Martin Vroegh
CEO Hydrogenii Canada Inc.

Martin has over 25 years industrial and manufacturing experience. As the former Senior Director of Greenhouse Gas Reduction Technologies and Cleantech at the Ontario Centre of Innovation (OCI), Martin was responsible for implementing and funding Greenhouse Gas Reduction projects for large scale provincial emitters on behalf of the Province of Ontario. Previously, as Director of Environmental Affairs for St. Marys Cement, Martin led the industry with

greenhouse gas mitigation projects including acquiring Ontario's first ever environmental approval for biomass fuels in the cement industry as well as the first ISO 50001 Certification for Energy Management in North America. Martin is a founding board member of the Ontario Clean Technology Industry Association (OCTIA.ca) and the current Chair of the CIPEC (Canadian Industry Partnership for Energy Conservation) Task Force, a partnership between private industry and Natural Resources of Canada which aims to promote and improve Canada's industrial energy efficiency and reduce greenhouse gas emissions in the industrial sector.



Chris Walton
*CEO, Centre for Research
and Innovation in the Bio-
Economy (CRIBE)*

Chris is a management professional with over 25 years experience specializing in government relations, strategic planning, sustainability planning and project development, with a focus in the forest products and bio-economy sectors.



Markus Weissenberger
*Chief Technology Officer
SixRing Inc.*

Markus has over 25 years international research and development experience in diverse industrial fields. He holds a PhD in physical and polymer chemistry from the University of Potsdam/Germany and executed his research work at the Max Planck Institute of Colloids and Interfaces in Potsdam/Germany. He has a profound working knowledge of industrial chemical processes, and the oil and gas industry encompassing fracturing, cementing, heavy oil recovery, and oil field chemistry. Previously, Markus was the lead of a stimulation R&D group of an international Oil & Gas service provider. He has extensive experience in international commercialization of new completion and production chemistry, working closely with engineering, product development, marketing and sales. Markus has co-authored many chemical patents and leads the IP generation activities at SixRing.




Dan Wicklum
*CEO
The Transition Accelerator*

Dan has spent more than 25 years performing and managing research, driving innovation, and fostering collaboration between industry, government, academia, and civil society. The Transition Accelerator is a pan-Canadian charity that works with groups across the country to solve business and social challenges while building in net zero emission solutions. Dan is also the co-chair of Canada's Net-Zero Advisory Body, the statutory independent body that advises the federal government on setting interim emission reduction targets on the way to a net-zero emission Canada by 2050, and on the most likely pathways to get there. Prior to the Transition Accelerator, Dan was CEO of Canada's Oil Sands Innovation Alliance, Executive Director of the Canadian Forest Innovation Council, and a senior manager at Environment and Climate Change Canada and Natural Resources Canada. He was Assistant Professor at the University of Montana, and holds a PhD in Aquatic Ecology from the University of Montana. His initial career was in professional football, as a linebacker for the Calgary Stampeders and the Winnipeg Blue Bombers.



Michael Wolinetz
*Partner/Senior Consultant
Navius Research*

Navius Research is a Vancouver-based energy and climate policy consultancy. Navius uses quantitative methods to forecast how current and emerging technologies and fuels interact with market drivers, human behaviour, and government policies to impact energy consumption, greenhouse gas emissions and activity across all sectors of the economy. This includes in-depth analyses of how current Canadian policies affect the transportation sector, and how getting to net-zero will affect the supply and adoption of low-carbon fuels and zero-emissions vehicles across all transportation modes.



TAP INTO WATERLOO TALENT

The global leader in co-operative education



Contact your local Business Developer, Jideofor Ahaneku, to learn more about finding the talent *you* need.

✉ jahaneku@uwaterloo.ca

☎ 613-617-3670



UNIVERSITY OF
WATERLOO

Co-operative and
Experiential Education



Scaling Up 2024

**Bigger Impact
Smaller Footprint**

*Canada's 9th annual industrial
bioeconomy business conference*

November 25-27, 2024
Fairmont Château Laurier
Ottawa, Canada



www.scalingupconference.ca

Platinum Sponsors



Gold Sponsors



Silver Sponsors



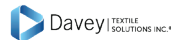
Renewable Industries Canada
Industries Renouvelables Canada



Supporting Sponsors



Embassy of Finland
Ottawa



Scaling Up Founder and Chair: Jeff Passmore, CEO Passmore Group Inc.
Visit the website to register for Scaling Up 2024 in Ottawa:

www.scalingupconference.ca