



BRIL – KTT Workshop

Ontario's Agricultural Biomass Based Activated Biocarbon



ENGINEERING

Workshop Chair



Animesh Dutta, PhD, P.Eng
Professor & Director,
Bio-Renewable Innovation
Lab (BRIL)

Speakers



Andrew White
Chief Executive Officer

22nd March 2024 - Friday

**Location: Meeting Room 3504, Richards
School of Engineering, University of Guelph,
50 Stone Rd. E. Ontario, CANADA N1G 2W1**

Workshop Highlights

- Technologies for Ontario's Agricultural Biomass Based Activated Biocarbon
- Potentials of Ontario Based Biomass to Activated Biocarbon Value Chain
- Carbon Credit Potentials based on Biomass based Biocarbon in Ontario
- Commercial Applications of Activated Biocarbon

10:00 Hrs.	Door open and light refreshment
10:30 - 11:00 Hrs.	Greetings and Introduction by Dr. Animesh Dutta, PhD, P.Eng
11:00 - 11:20 Hrs.	Andrew White, CHARTECH
11:20 -11:40 Hrs.	Jason Clarke, P.Eng., ANTHESIS
11:40 -12:00 Hrs.	Mitchell Ubene, CONTINENTAL CARBON
12:00 -12:30 Hrs.	Q&A
12.30 - 13.00 Hrs.	Lunch
13:00 - 14:00 Hrs.	Lab Visit and Students Poster Presentation



Jason Clarke, P.Eng.
Associate Director



Mitchell Ubene
Application Specialist

**Bio-Renewable Innovation Lab (BRIL); University of Guelph
Knowledge Translation and Transfer (KTT)**

Funded by Ontario Ministry of Agriculture, Forest and Rural Affairs (OMAFRA), through the Ontario Agri-Food Innovation Alliance



Speakers Bio and Title of Presentations



10:30 - 11:00 Hrs.

Title:

Upcycling of biowaste for Energy, Materials and Chemicals: A circular Economy Approach

Dr. Animesh Dutta, of the School of Engineering, excels in advancing clean and sustainable energy technologies, adapting to global shifts. With his team, they convert biomass and diverse waste—agricultural residues, plastic, and food processing byproducts — into renewable fuels, chemicals and materials.

Animesh Dutta; PhD, P.Eng
University Research Leadership Chair

Professor, School of Engineering
Director, Bio-Renewable Innovation Lab (BRIL)
University of Guelph ; 50 Stone Road East, Guelph, Ontario, N1G 2W1



Title:

Biomass Upgrading to Biocoal & RNG Using High-Temperature Pyrolysis

Andrew White is the co-founder and CEO of CHAR Technologies. He holds a MSc degree in Chemical Engineering from the University of Toronto and Master’s in Business, Entrepreneurship, and Technology (MBET) from the University of Waterloo. His work at CHAR Tech has earned him the OBBA’s Young Entrepreneur of the Year award, while his guidance has led the company to be recognized as CIX’s Top 20 Most Innovative Public Companies and the 2022 Venture 50 Performance Award (clean technology & life sciences).

Andrew White
Chief Executive Officer

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11:00 - 11:20 Hrs.

Title:

Biomass & Biocarbon GHG Offsets 101

Jason is an Associate Director – Corporate Carbon Accounting with Anthesis and has spent more than 11 years in the GHG industry. Jason has experience associated with the development of corporate greenhouse gas (GHG) inventories (Scope 1, 2, and 3) and leads Anthesis’ Technical Team for the ongoing development of inventory best practice guidance and procedures.

Jason Clarke, P.Eng.
Associate Director

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11:20 -11:40 Hrs.

Title:

Outlook of Applications for Commercial Activated Biocarbon

Mitchell, a recent addition to Continental Carbon Group as an Application Specialist, brings a rich background in mechanical and biochemical engineering. His master’s research at the University of Guelph focused on producing high-value activated carbon from biomass residues. He tested activated biocarbon for water treatment, now designing large-scale treatment systems using commercial activated carbon while researching methods to enhance sustainability in real-life applications.

Mitchell Ubene
Application Specialist

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11:40 -12:00 Hrs.