

BRIL – KTT Workshop

Ontario's Agricultural Biomass Based Activated Biocarbon





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

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

Workshop Chair



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

Speakers





Andrew White Chief Executive Officer

Anthesis **



Jason Clarke, P.Eng. Associate Director

Continental Carbon Group



Mitchell Ubene Application Specialist



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

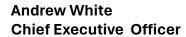
Professor, School of Engineering Director, Bio-Renewable Innovation Lab (BRIL) University of Guelph; 50 Stone Road East, Guelph, Ontario, N1G 2W1





Biomass Upgrading to Biocoal & RNG Using High-Temperature Pyrolysis

Andrew White is the co-founder and CEO of CHAR Technologies. He holds a MASc 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).



Morneau Shepell Centre II, 895 Don Mills Road, Suite 400, Toronto, ON M3C 1W3 1-800-323-4937



Anthesis 🞇





11:20 -11:40 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
100 Stone Road West, Guelph, N1G 5L3
+1 226-343-2774

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 1100 South Service Rd # 321, Stoney Creek, ON L8E-0C5 Phone: (226) 347 4980



11:40 -12:00 Hrs.

