

GREAT Institute



Greenhouse Research Education And Training (GREAT) Institute

Exploratory Webinar

Thursday, June 25, 2020



University
of Windsor



Western
Science



TURBULENCE
& ENERGY LAB



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Webinar Agenda

1030 - 1045 Concept Introduction.

1045 - 1115 Easy/Fun Interactive Feedback
and Stakeholder Inputs Solicitation.

1115 - 1145 Expert Commentary.

1115 - 1122 Dr. Justine Taylor.

1122 - 1129 Mr. Lucas Semple.

1129 - 1136 Mr. Gene Ingratta.

1136 - 1143 Mr. Peter Quiring.

1145 - 1200 Summary Comments and Next Steps.



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MOTIVATION



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YOU ARE ALREADY GREAT

So What Are We Trying To Do Here?

- The Ontario Greenhouse Sector is ripe with many examples of Research, Innovation, Commercialization, Education, and Teaching.
- The wealth of knowledge among Growers, Government Labs, NGO Agencies, Consultants, and Universities is staggering.
- Careful examination of the sector has revealed a wealth of untapped opportunities for markedly increased coordination, collaboration, and knowledge translation.



YOU ARE ALREADY GREAT

So What Are We Trying To Do Here?

COORDINATION



Avoid redundancy,
increase efficiency of
resource utilization.

COLLABORATION



I didn't know you did
that - let's combine to
make a Superteam!
And/or how can we help
one another in our own
separate efforts?

KNOWLEDGE TRANSLATION



Let's commercialize
innovation, educate the
public and the political,
get interest, establish
influence – let's train the
next generation of
amplified agriculturalists!

YOU ARE ALREADY GREAT
So What Are We Trying To Do Here?

COORDINATION — **COLLABORATION** — **KNOWLEDGE TRANSLATION**

COORDINATION

 Avoid redundancy, increase efficiency of resource utilization.

COLLABORATION

 I didn't know you did that - let's team up to make a Superteam! And/or how can we help one another in our own separate efforts?

KNOWLEDGE TRANSLATION

 Let's educate the public and the political, get interest, establish influence - let's train the next generation of amplified agriculturalists!

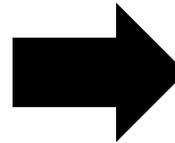
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So What Are We Trying To Do Here?

BUILD A BRAND FOR EXPORT



Many existing GREAT Stakeholders have already established globally recognized product brands. The same should be true for our GREAT Research, Education, and Commercialization.



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COMPOSITION



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IT'S ALL ABOUT A GREAT NETWORK

Core Components



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IT'S ALL ABOUT A GREAT NETWORK

GREAT Sample Extended Partners



Environmental Interaction

GREAT



Nutrition Health

Transport Logistics



CROSS-BORDER INSTITUTE

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JURISDICTIONAL SCAN



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- **Wageningen University & Research is the only university in the Netherlands to focus specifically on the ‘healthy food and living environment’ theme.**
- **Five scientific research programs:**
 - **Circular and climate neutral**
 - **Food security and the value of water**
 - **Nature and inclusive transitions**
 - **Safe and healthy food systems**
 - **Data driven and high tech**

JURISDICTIONAL SCAN

What Else Is Similar Out There?



WAGENINGEN
UNIVERSITY & RESEARCH



wur.nl/en/wageningen-university.htm



- **SLU mission is to develop an understanding of sustainable use and management of biological natural resources.**
- **Major research areas include:**
 - **Ecology**
 - **Environmental Sciences**
 - **Plant Sciences**
 - **Forestry**
 - **Agriculture, Dairy, and Animal Sciences**

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What Else Is Similar Out There?



Swedish University of
Agricultural Sciences



<https://www.slu.se/en/>





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- The CEAC provides education, research, outreach, and extension activities, and includes advanced technology greenhouses and growth chambers, as well as office, laboratory and teaching facilities.
- Innovative facilities include:
 - Teaching and R&D Greenhouses
 - Vertical Farm
 - Aqua Farm
 - Mars-Lunar Greenhouse

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What Else Is Similar Out There?

University of Arizona CEAC



<https://ceac.arizona.edu/>





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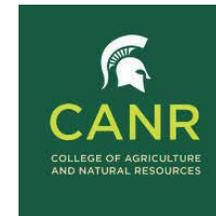
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- The MSU College of Agriculture and Natural Resources strives to advance the knowledge for the management of communities and agricultural, natural resource, and food systems to meet diverse human needs in a sustainable manner.
- Four pillars include:
 - Agriculture: Plants and Animals
 - Human Health: Food and Nutrition
 - Built Environments: Construction and Design
 - Natural Resources: Sustainable Environments

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What Else Is Similar Out There?



MSU College of Agriculture
and Natural Resources



canr.msu.edu

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- CRAAQ is a not for profit organization dedicated to knowledge transfer in the agricultural and agribusiness sectors.
- The organization is made up of an extensive network of advisory services including 400 dedicated experts throughout Canada who share information with over 5,000 professionals, as well as with approximately 15,000 agricultural and food companies.

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What Else Is Similar Out There?

The Quebec Reference Center for
Agriculture and Agri-food (CRAAQ)



craaq.qc.ca/en



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What Else Is Similar Out There?

- **Vineland is a non-profit, Canadian results-oriented organization dedicated to horticulture science and innovation.**
- **Research programs include:**
 - **Biocontrol systems**
 - **Automation**
 - **Plant variety development**
 - **Consumer insights**
 - **Greening the landscape**



vinelandresearch.com

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- **ACIAR funds and connects agricultural researchers in Australia to the developing world, achieving more productive, resilient and sustainable agriculture.**
- **Priorities include:**
 - **Food security and poverty reduction**
 - **Capacity building**
 - **Human health and nutrition**
 - **Inclusive value chain**
 - **Natural resources and climate change**

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What Else Is Similar Out There?

Australian Centre for International
Agricultural Research



aciar.gov.au

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STAKEHOLDER SURVEY



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