

CANADA'S TOP  
50  
RESEARCH  
COLLEGES  
2017 RESEARCH  
Infosource Inc.



# In The Media

Oct – Dec 2017



## CFWI IC Cricket protein gets noticed

The Gryllies cricket powder, developed in conjunction with CFWI Research & Innovation, gets a spot in the Ontario Centres of Excellence Annual Report 2016/17.

The infographic is titled "BUILDING A..." and features a purple header with the text "(12 per cent increase over previous year)". The main heading is "GRYLLIES". The text describes the company's growth and its partnership with the Dunin-Deshpande Queen's Innovation Centre (formerly Queen's Innovation Connector). A photo shows a woman in a lab coat working in a kitchen setting. The footer indicates "OCE 16/17 | ANNUAL REPORT".

**GRYLLIES**

Business is jumping at Gryllies, a Toronto-based provider of sustainable protein through cricket flour.

This past year, Gryllies launched in five grocery stores in Canada's largest city, including the Loblaws inside the iconic Maple Leaf Gardens at 60 Carlton Street. Gryllies also launched its e-commerce business and

brought on a sales partner to help the company break into the U.S. market.

In addition to its cricket-based pasta sauces, Gryllies is further developing its product line in conjunction with Niagara College. Supported through the Dunin-Deshpande Queen's Innovation Centre (formerly Queen's Innovation Connector), Gryllies is helping consumers eat healthier while reducing the environmental footprint of our diet.

restaurants for its fresh produce now exceeding capacity, it could be growing again soon.

16

OCE 16/17 | ANNUAL REPORT

**COVERAGE TYPE** Digital, Print  
**OCTOBER 2017** [OCE](#)

# Dr. Marc Nantel speaks at Economic Summit

Nantel, associate vice-president of Research & Innovation, joins the panel at the Greater Niagara Chamber of Commerce Niagara Economic Summit to speak about transformation change and the next 150 years.

**COVERAGE TYPE** Digital, Print  
**OCTOBER 2017** [GNCC](#)



[ABOUT](#) [MEMBERS](#) [EVENTS](#) [ADVOCACY](#)



## SPEAKER PROFILE: DR. MARC NANTEL

Friday, October 20, 2017

2017 NIAGARA ECONOMIC SUMMIT

Dr. Marc Nantel is Associate Vice-President of Research & Innovation at Niagara College, and oversees all aspects of applied research at the college, which focus on the Walker Advanced Manufacturing Innovation Centre, the Canadian Food & Wine Institute Innovation Centre, the Agriculture & Environmental Technologies Innovation Centre, and Business & Commercialization Solutions. He took this position in 2011, after 13 years

# Talking big data, trends and farm of the future

**Manitoba Co-operator** interviews  
Research & Innovation's Dr. Mike  
Duncan for its story on agriculture and  
big data as one of the key trends to  
affect the farm of the future.

**COVERAGE TYPE** Digital  
**NOVEMBER 2017** [Manitoba Co-operator](#)

## Little farm on the big database

Plenty of farmers would like to get their heads into the cloud. So what's keeping them grounded?



By Alexis Stockford  
Reporter

FOLLOW

Published: November 7, 2017  
Machinery & Shop, News  
0 comments



AgriTruth's Adam Gurr (l to r) and Stephen Vajdik hope to generate robust, field-scale data on everything from nutrient management to varieties and product testing. Photo: Alexis Stockford

When it comes to big data on the farm, the final destination is sunny, but the road ahead is full of bumps.

That's according to NDSU's David Saxowsky, a professor of agriculture who's written on the topic of data and its coming impact on agriculture.

Saxowsky imagines a time when farmers are so well informed about their land that they can tailor seeding rates and inputs not just according to field, but according to patches

“

Mike Duncan, a precision agriculture expert and Natural Sciences and Engineering Research Council (NSERC) research chair holder at Niagara College, is among those concerned. In a 2016 interview with the Manitoba Co-operator, he pegged the need for robust data at the farm scale.

“How often is the average yield monitor calibrated, for example?” he posed at the time. “If you want really good data, it should be calibrated before you start every field. I doubt that will happen and I bet that most yield monitors aren't even calibrated once a season.”

”

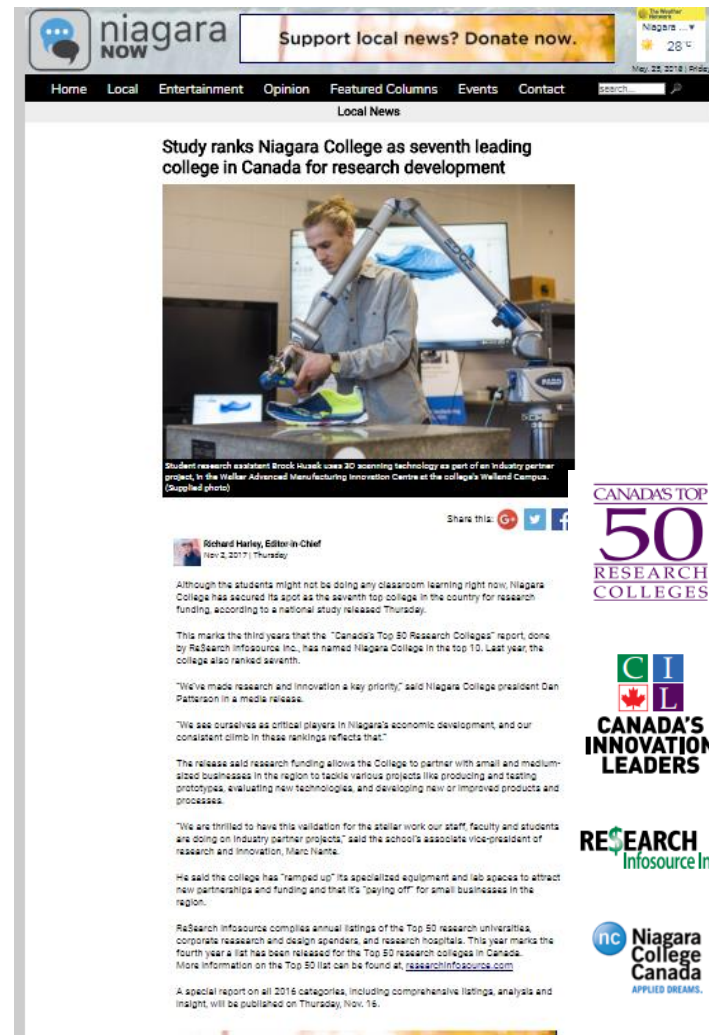


# NC Top-10 among research colleges

*Re\$earch Infosource* releases its report  
“Canada’s Top 50 Research Colleges”  
and Niagara College is No. 7 for the  
second year in a row and places in top  
10 for a third straight year.

**COVERAGE TYPE** Digital, Print

**NOVEMBER 2017** [Niagara College](#), [Niagara Now](#), [Re\\$earch Infosource](#)



CANADA'S TOP  
**50**  
RESEARCH  
COLLEGES

C I L  
CANADA'S  
INNOVATION  
LEADERS

RESEARCH  
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nc Niagara  
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APPLIED DREAMS.

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& Innovation

## Research Infosource releases list of top 50 Canadian research colleges

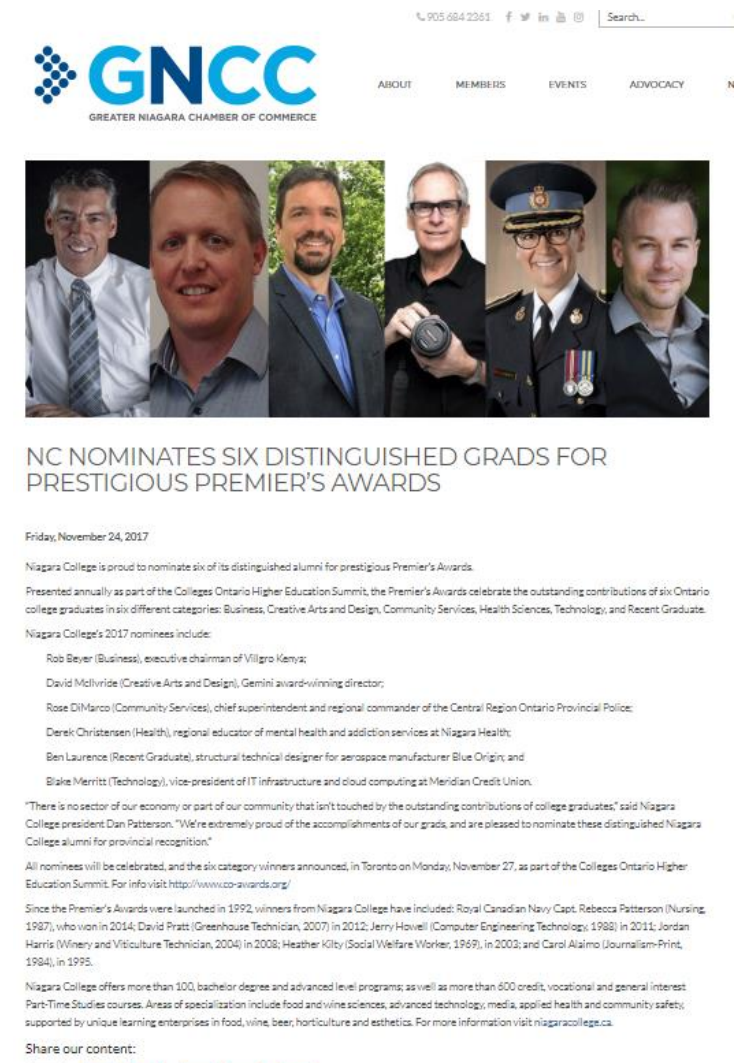
October 24, 2014

Research Infosource has released its annual list of Canada's Top 50 research colleges. Topping the list this year was the British Columbia Institute of Technology, which, according to Research Infosource, saw a research income of over \$15 M in the 2013 fiscal year. BCIT was followed by the Northern Alberta Institute of Technology (NAIT) and George Brown College, which had research incomes of roughly \$9.7 M and \$9.3 M, respectively. Cégep de la Gaspésie et des Îles and SAIT Polytechnic rounded out the top 5. The rankings also recognized the top research colleges in the country based on the number of formal research partnerships and number of formal research projects completed at each institution. Algonquin College topped both categories among large colleges, and Collège d'Alma topped all small colleges in both areas. Olds College was the top mid-sized college for number of partnerships, and La Cité collégiale was the highest ranked mid-sized

November 16, 2017

Rank		College	Research Income			Faculty*	Research Intensity		Main Research Institute/Centre/Facility
			FY2016 \$000	FY2015 \$000	% Change 2015-2016				
2016	2015						\$ per Faculty \$000	Prov	
1	19	George Brown College	\$13,217	\$3,829	245.2	116	\$113.9	ON	Food Innovation & Research Studio
2	32	Fanshawe College	\$12,332	\$1,856	564.4	41	\$300.8	ON	Canadian Centre for Product Validation
3	3	Lambton College	\$11,038	\$7,025	57.1	55	\$200.7	ON	Centre of Excellence in Energy and Bio-Industrial Technologies
4	1	Cégep de Saint-Hyacinthe	\$10,792	\$10,283	4.9	80	\$134.9	QC	Groupe CTT/CTT Group
5	2	Cégep de la Gaspésie et des Îles	\$9,951	\$7,870	26.4	53	\$187.8	QC	CIRADD, Merinov, TechnoCentre éolien
6	6	Sheridan College	\$8,297	\$6,247	32.8	78	\$106.4	ON	Centre for Mobile Innovation
7	7	Niagara College	\$6,942	\$6,069	14.4	67	\$103.6	ON	Walker Advanced Manufacturing Innovation Centre
8	9	Centennial College	\$6,364	\$5,440	17.0	102	\$62.4	ON	Wearable Interactive and Mobile Technologies Access Centre in Healthcare
9	11	Red River College	\$6,172	\$4,876	26.6	64	\$96.4	MB	Advanced Aerospace Innovation Initiative
10	5	British Columbia Institute of Technology	\$6,000	\$6,300	-4.8	120	\$50.0	BC	Phytoanalytics Laboratory
11	10	Cégep de Trois-Rivières	\$5,975	\$5,235	14.1	56	\$106.7	QC	Centre de métallurgie du Québec
12	8	Cégep Édouard-Montpetit	\$5,737	\$5,806	-1.2	56	\$102.4	QC	Centre technologique en aérospatiale
13	4	Cégep de La Pocatière	\$5,674	\$6,650	-14.7	55	\$103.2	QC	Solutions Novika
14	16	Southern Alberta Institute of Technology (SAIT)	\$5,487	\$4,335	26.6	88	\$62.4	AB	Green Building Technology Access Centre
15	14	NAIT - Northern Alberta Institute of Technology	\$5,205	\$4,629	12.4	56	\$92.9	AB	Boreal Research Institute
16	13	Yukon College	\$4,803	\$4,695	2.3	31	\$154.9	YT	Yukon Research Centre

**COVERAGE TYPE** Digital  
**NOVEMBER 2017** InsideNC, GNCC

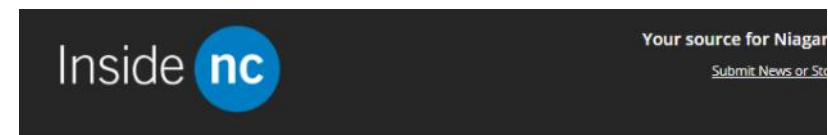




# NC students research organic substrate

Research from Niagara College horticulture students for industry partner Gro-Bark is featured in Greenhouse Canada magazine.

**COVERAGE TYPE** Digital, Print  
**DECEMBER 2017** [Greenhouse Canada](#), [insideNC](#)



[Home](#) / [Campus Update](#) / Niagara College students complete culinary herb trials

## Niagara College students complete culinary herb trials

Posted on December 19, 2017 by Julie Greco in [Campus Update](#), [Media Coverage](#), [NC Greenhouse](#), [School of Environment and Horticulture](#), [Uncategorized](#)



**Retailing 101**  
Some sweet ideas on customer service. | 10

**Energy bills and cannabis**  
Close attention to these costs from the start will definitely pay off in the long run. | 12

**Alternative crops**  
Niagara College students take closer look at culinary herbs. | 34

**GREENHOUSE CANADA**  
DECEMBER 2017  
greenhousecanada.com



Growing cannabis:  
in a warehouse or  
in a greenhouse?



## Niagara College students complete culinary herb trials

They compare crops grown with organic growing substrate with conventionally grown crops.

BY MARY JANE CLARK

Students in the Niagara College horticultural technician program have been demonstrating innovation and enthusiasm for the greenhouse industry by producing alternative greenhouse crops on campus.

In a course-based research project during the fall 2016 semester, students evaluated culinary potted herbs grown in a new organic growing substrate, and a conventional peat-perlite substrate.

During the Greenhouse Production Science course, students grew crops including sweet basil, Spanish Eyes lavender, pansy, sage and chives in 10 cm-diameter pots at the Niagara-on-the-Lake Campus greenhouse. Many students had no previous experience growing plants in a greenhouse, and were intrigued with growing culinary potted herb plants in organic and conventional substrates.

Crops grown in the newly formulated organic growing substrate, supplied by Gro-Bark Ontario Ltd., were watered with Nature's Source Organic

Plant Food 3-1-1 organic fertilizer applied at 250 ppm N, as needed.

As a control, a conventional water-soluble fertilizer at 200 ppm N was used for the plants grown in the conventional substrate. Students evaluated pH and electrical conductivity (EC) three times during the semester and alternated fertilization with application of tap water, to ensure appropriate pH and EC levels. After 10-12 weeks of growth, shoot dry weight was measured for five representative organic- and conventionally grown plants per crop.

The following are observations provided by student groups for individual culinary potted herb crops:

**Sweet Basil (*Ocimum basilicum*):** Faster, more vigorous growth was observed for sweet basil plants grown in the organic media compared to the conventional substrate, with organic plants also having thicker leaves and stems than the

ABOVE  
Niagara College Horticulture students, with Professor Mary Jane Clark (far left), showcase their organic- and conventionally grown culinary potted herb crops.

34 GREENHOUSE CANADA • December 2017

# Partnering in precision agriculture project

Niagara College gets listed as a project partner in a story by *Grainews* about Ontario precision Agri-food and open-source data.

**COVERAGE TYPE** Digital  
**DECEMBER 2017** [Grainews](#)

## Ag orgs build open-source data platform

Collecting data is one thing, but pulling it into one place brings it to the next level



By Lilian Schaer

Published: December 20, 2017  
Crops, Features  
Be the first to comment



Photo: File

The advent of precision agriculture technology and the Internet of Things has led to the collection of vast amounts of data.

Many different types of tools, equipment and devices gather data on everything from crop yields to how many steps an animal takes in a day. Much of that data, however, is under-utilized and is collected by varying systems that can't communicate with each other.

Read more: [New digital data platform on the Prairies](#)

The potential this presents was behind the creation of Ontario Precision Agri-Food (OPAF), a partnership of agricultural organizations that is collaborating to build an open agri-food innovation platform to connect and share data.

"This is not just for or about Ontario, it could just as easily be called Canadian Precision Agri-Food," said Tyler Whale of Ontario Agri-Food Technologies (OAIT). "We are piloting this in Ontario but it's intended to be available nation-wide to those who want to use it."

Other project partners include University of Guelph, University of Waterloo, Niagara College, Vineland Research and Innovation Centre, Livestock Research Innovation Corporation, Ontario Fruit and Vegetable Growers Association, Grain Farmers of Ontario and Ontario Federation of Agriculture.

"We are piloting this in Ontario but it's intended to be available nation-wide to those who want to use it."

Other project partners include University of Guelph, University of Waterloo, Niagara College, Vineland Research and Innovation Centre, Livestock Research Innovation Corporation, Ontario Fruit and Vegetable Growers Association, Grain Farmers of Ontario and Ontario Federation of Agriculture.

The goal, according to lead researcher Dr. Karen Hand of Precision Strategic



# NC research expert offers funding advice

Jim Lambert, centre manager of the Walker Advanced Manufacturing Innovation Centre, offers guidance on seeking funding for collaborative post-secondary research projects in a webinar.

**COVERAGE TYPE** Digital, Print  
**DECEMBER 2017** [Mentor Works](#)



The screenshot shows the Mentor Works website. The header includes the logo and navigation links: Home, Who We Are, What We Offer, Blog, and Contact Us. A search bar is also present. The main banner features the title "Webinar: Funding for Collaborative Post-Secondary Research Projects (January 30)" over a background image of hands typing on a keyboard. Below the banner, the date "DECEMBER 23, 2017" and author "JEFF SHEPHERD" are listed, along with "NO COMMENT". The main text describes the webinar's purpose: to help businesses create innovative products, services, or processes by collaborating with post-secondary institutions. It mentions that attendees will learn about funding opportunities and how to identify government grants. A photo of two people working in a lab is included. A "REGISTER NOW" button is prominently displayed. The sidebar on the right lists "CANADIAN GOVERNMENT FUNDING" categories: Business Expansion, Capital & Tech Adoption, Hiring & Training, and Research & Development. It also lists "BUSINESS FUNDING EVENTS" and "FUNDING & BUSINESS NEWS" with tabs for Recent, Popular, and Comments.

mentor works

Home | Who We Are | What We Offer | Blog | Contact Us | Search

## Webinar: Funding for Collaborative Post-Secondary Research Projects (January 30)

Home | Blog | Business Events | Webinar: Funding for Collaborative Post-Secondary Research Projects (January 30)

DECEMBER 23, 2017 | JEFF SHEPHERD | NO COMMENT

Do you strive to create innovative products, services, or processes? Is your business interested in collaborating with post-secondary institutions to tap into additional expertise? Working with colleges and universities can be beneficial to your research and development processes and can also be supported through Canadian government grants.

**Join Mentor Works and Niagara College on January 30, 2018** to partner with post-secondary institutions on collaborative research projects, as well as the related funding available to offset a portion of the project costs. During this free webinar, attendees will discover how colleges can support innovative research projects and will also learn how to reduce project costs by identifying leading government grants and incentives.

Attendees will also have the special privilege of learning about Niagara College's capabilities to support employers in the advanced manufacturing and technology sectors. Discover how working with Niagara College can improve business productivity, develop prototypes, and receive other technical services which help innovate, become more efficient, and save/make more money.

### Webinar: Funding for Collaborative Post-Secondary Research Projects

On Tuesday January 30, Mentor Works Ltd. will be joined by Niagara College to host a **free webinar** for Canadian businesses interested in conducting R&D with post-secondary institutions.

The session will review government funding programs to support innovation and R&D collaboration, and will also provide insight into Niagara

**CANADIAN GOVERNMENT FUNDING**

- Business Expansion
- Capital & Tech Adoption
- Hiring & Training
- Research & Development

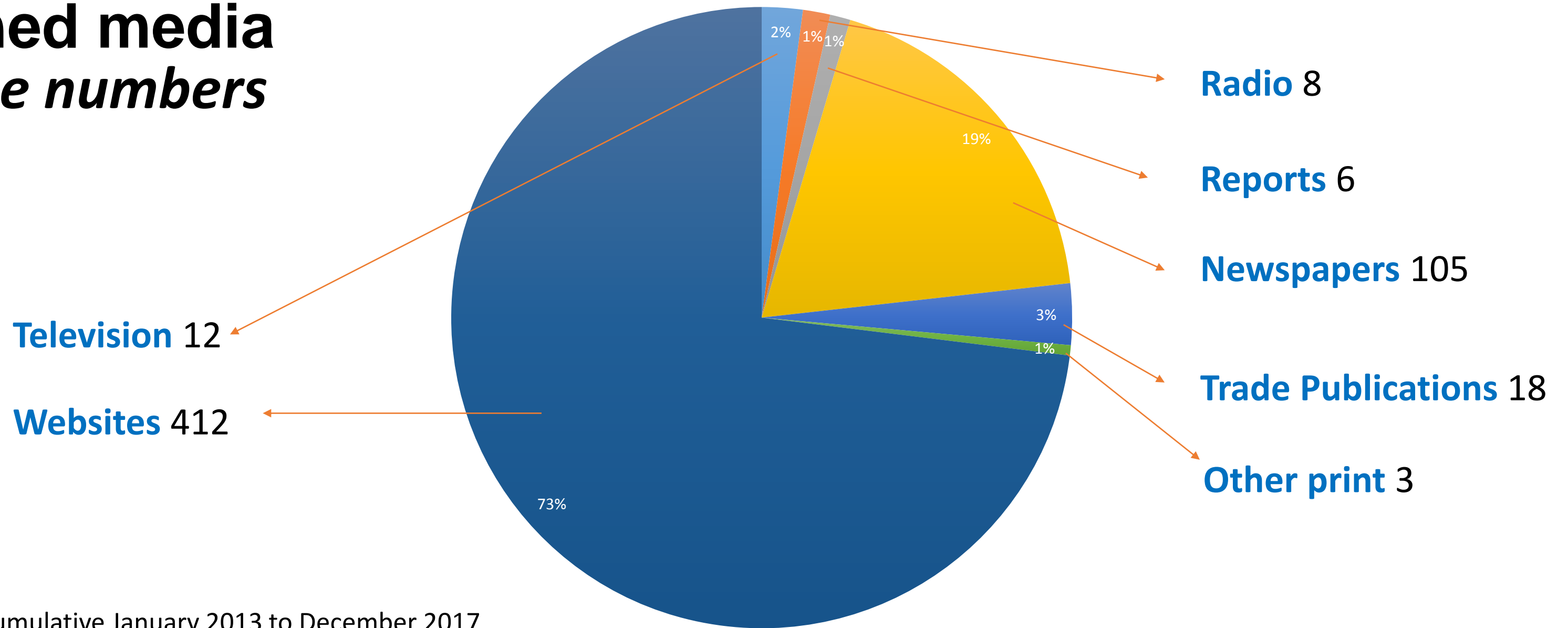
**BUSINESS FUNDING EVENTS**

**REGISTER NOW**

**FUNDING & BUSINESS NEWS**

RECENT | POPULAR | COMMENTS

## Earned media *by the numbers*

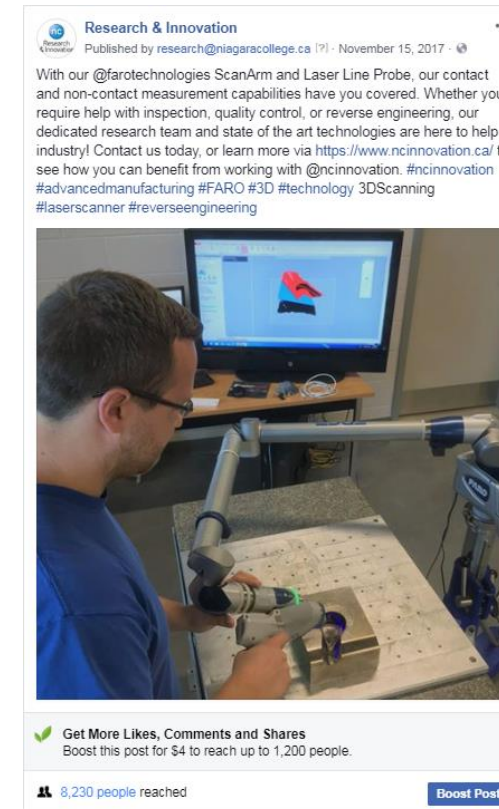
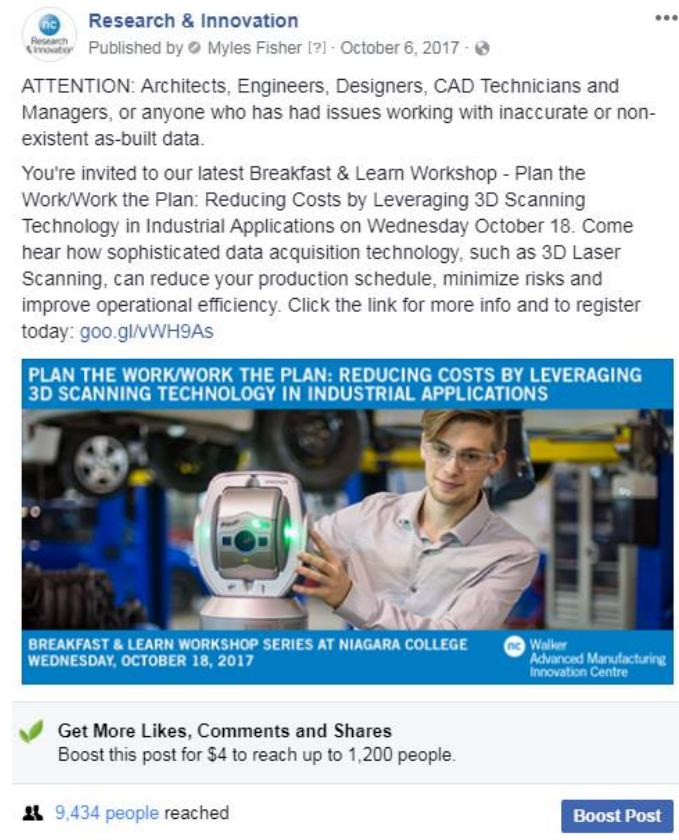


**TIMELINE** Cumulative January 2013 to December 2017





315 likes



**SOCIAL MEDIA: Facebook**

**TIMELINE** As of December 2017

↑  
**October**  
18,310 people reached

↑  
**November**  
26,937 reached

↑  
**December**  
3,786 people reached



**1,022 followers**



↑ **October** 11,400 impressions



↓ **November** 12,400 impressions



↑ **December** 8,355 impressions

**SOCIAL MEDIA:** [Twitter](#)

**TIMELINE** As of December 2017





**2,103 followers**



**October** 13,505 impressions



**November** 32,278 impressions



**December**  
10,709 impressions

**SOCIAL MEDIA:** [LinkedIn](#)

**TIMELINE** As of December 2017

For more information visit: **[ncinnovation.ca](http://ncinnovation.ca)**

## **SOLUTIONS FOR INDUSTRY**

Providing innovation solutions to business and key industry sectors through applied research in partnership with Niagara College faculty and students.