# Report on the 2018 Canadian Conference for Undergraduate Women in Physics

Thomas Armstrong, Erin Broatch, Laura Burchell (co-chair), Fiona Burns, Gevy Cao (co-chair), Sandra Cheng, Kate Fenwick (co-chair), Sebastian Gitt, Mari Hanson, Gen Hayes, Laurie Huang, Hadiya Ma, Laura Miller, Lucas Rooyakkers, Kevin Woodcock (Queen's University)

Francine Ford (CAP)

Brigitte Vachon (McGill University)

CAP Congress 13 June 2018

## What is CUWiP?

- Conference for Undergraduate Women in Physics
- 3-day conference held annually in Canada since 2014.
  - McGill (2014), Laval (2015), Dalhousie (2016), McMaster (2017), Queen's (2018)
- Canadian CUWiP modelled after the successful US-APS CUWiP.
  - https://www.aps.org/programs/women/workshops/cuwip.cfm
  - Typically hosts annually ~11 conferences simultaneously across the US
  - Strong national organization and support from APS

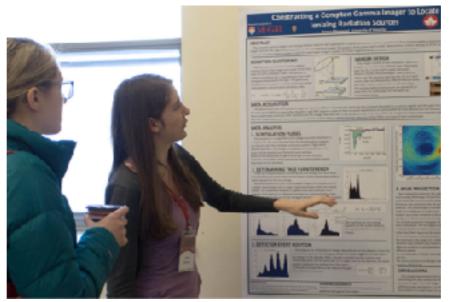
## CUWiP Goal

- Goal: Encourage undergraduate women to pursue a physics education.
- Strategy: Provide undergraduate women the opportunity to
  - Experience a professional conference
  - Discover a variety of career paths
  - Develop a regional/national network of women in Physics
  - Learn about undergraduate research opportunities, graduate studies, etc.

# CUWiP "philosophy"

- Organized for and by undergraduate students
- "Regional" conference
  - Event kept "small" providing optimal networking opportunities and sense of community.













# CUWiP "philosophy"

• All conference fees\* are covered for the participants.

#### - Why?

• Ensures that all students have the same opportunity regardless of their personal financial situation or whether or not they may have access to some external funding.

#### - How?

- Limited number of participants
- Application process
- Large number of sponsors

<sup>\*</sup> All expenses (food, accommodation) are covered, excluding travel costs to the conference.

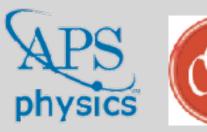
Queen's University, 12-14 January 2018 (https://ccuwip.cap.ca/2018-ccuwip/)



151 student participants (from 34 universities)



#### Queen's University, 12-14 January 2018





Incredible amount of support from sponsors. Thank you!



#### The Art McDonald SNO Breakthrough Prize Research Fund



















Department of Physics, Engineering Physics and Astronomy









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Centre canadien



#### **CUWiP 2018** Queen's University, 12-14 January 2018



- Student talks and poster session
- Invited speakers [Prof. Vicky Kaspi (McGill), Dr. Renee Horton(SLS)]
- Participation in North American-wide live broadcast of keynote speaker [Prof. Patricia Burchart (Standford)]
- Panel discussions (Diversity in Physics, Physics opportunities in Industry, Research Opportunities, Graduate School Experience)
- Workshops (Negotiation skills, Presentation skills, Interview strategies, Imposter) syndrome and stereotypes in STEM, Graduate school applications)
- **Graduate and Career fair**
- Lab tours and stargazing

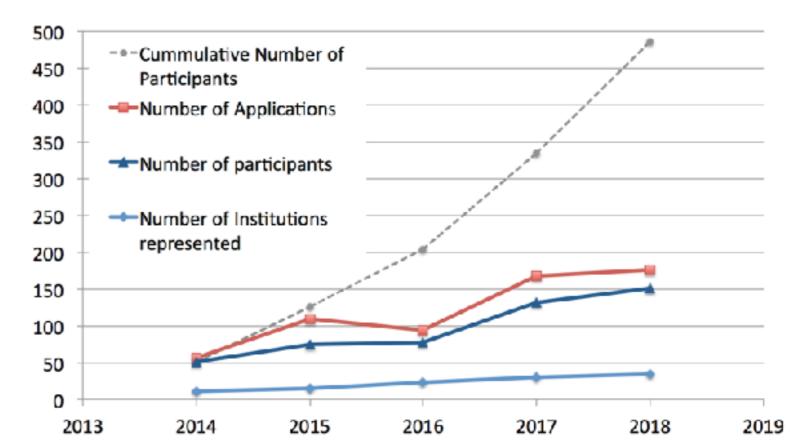




- Networking mentorship and opportunities
- Emphasis on general issues related to diversity in physics through workshop/panel offerings and organizational aspects geared at providing an all inclusive environment.

### **CUWiP Statistics**

- CUWiP 2018:
  - Number of applications: 176
  - Number of participants: 151
  - Number of institutes represented: 34



- Detailed statistics included in appendix.
- Increase in number of applications/participants over the years.
- Increased participation from western Canadian institutes.
  - Clear interest for hosting a CUWiP in western Canada.
- Conference series has now reached nearly 500 undergraduate students.

- University of Ottawa (Ottawa, Ontario)
- 18-20 January 2019

https://www.cap.ca/congress-conference/canadian-conference-undergraduate-women-physics-ccuwip

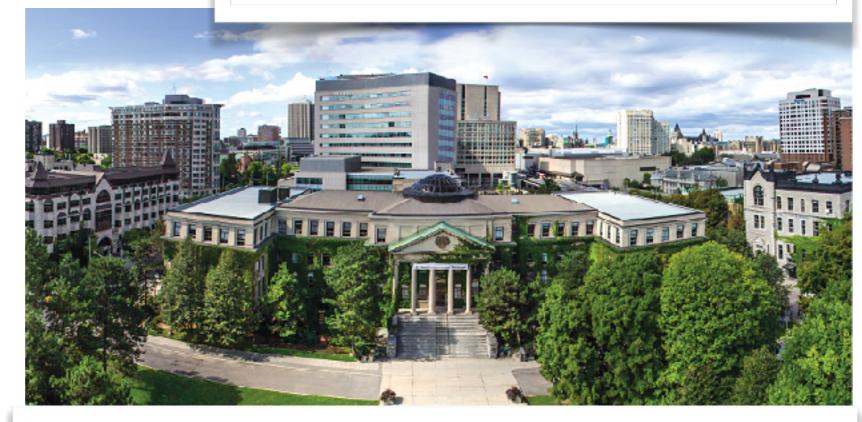


www.facebook.com/ccuwip



CCUWiP 2019 co-chairs Emily Zhang, Amina Berrada and Courtney Tower.

Application deadline: Mid-October 2018



Advertise to your undergraduate students and join us!

## Interested in hosting a CUWiP conference?

Particularly rewarding experience and one that provides undergraduate students with a unique opportunity to develop various highly-sought professional skills.

- Host site(s) applications open for 2020.
- Timeline: Bids to be presented at 2019 CUWiP (18-20 January 2019).
- Instructions:

https://www.cap.ca/congress-conference/canadian-conference-undergraduate-women-physics-ccuwip/ 2019-ccuwip-host-application-information/

• For more information: Francine Ford (execdir@cap.ca)

# Canadian CUWiP organization

#### Ongoing partnership with CAP and APS.

- Ensure continuity and sustainability of Canadian CUWiP conferences.
- Increase visibility of Canadian conference series.
- Provide technical assistance to facilitate conference organization.

#### CAP



Provide administrative and technical support (e.g. conference website, application/registration website, web-based pre/post-conference surveys, IT support, conference poster printing and distribution, conference advertisement, etc.)

#### APS

- Canadian site listed on APS CUWiP website:
  <a href="https://www.aps.org/programs/women/workshops/cuwip.cfm">https://www.aps.org/programs/women/workshops/cuwip.cfm</a>
- Canadian site rep and CAP-CEWIP rep member of APS-CUWiP "National Organizing Committee" (meets ~ monthly)
- Access to APS-CUWiP twiki full of useful information to assist with conference organization
- Canadian site representative invited to attend annual in-person APS-CUWiP organizational meeting (June)
- Participation in North American-wide live broadcast of keynote speaker



# Canadian CUWiP organization

- Within recent evolution of CAP-APS partnership, looking to establish a permanent oversight structure for the conference series within CAP.
- To learn more or get involved contact:
  - Francine Ford (<u>execdir@cap.ca</u>)
  - Brigitte Vachon (Brigitte.Vachon@McGill.ca)

## Summary

- Conference for Undergraduate Women in Physics (CUWiP)
  - Five successful editions of this conference series.
  - 6<sup>th</sup> edition to be held at University of Ottawa in January 2019. Join us and advertise!
  - Host site application open for 2020 conference. Consider applying!
- Excellent training, networking and professional development opportunities for undergraduate women in physics.
- Partnerships with APS and CAP in place to support
  Canadian conference series continuation and evolution.

## Come and join us!

## **CUWiP Statistics**



		2014	2015	2016	2017	2018
Province	Institute	McGill	Laval	Dalhousie	McMaster	Queen's
	Alberta	-	-	-	-	1
Alberta	Calgary	-	-	-	4	1
	Lethbridge	-	-	-	-	2
		0	0	0	4	4
British Columbia	Okanagan	-	-	1	-	-
	SFU	-	-	-	2	-
	Thomson River	-	-	-	-	1
	UBC	-	-	2	1	5
		0	0	3	3	6
Manitoba	Manitoba	-	-	-	-	2
	Winnipeg	-	-	-	-	1
		0	0	0	0	3
New Brunswick	Moncton	-	-	-	1	1
	Mt Allison	-	3	3	-	-
	UNB	-	-	4	-	-
		0	3	7	1	1
Nova Scotia	Acadia	-	-	4	1	-
	Dalhousie	-	4	9	-	4
	STFX	-	-	3	1	3
	St. Mary's	-	-	9	1	3
		0	4	25	3	10

					*	
		2014	2015	2016	2017	2018
Province	Institute	McGill	Laval	Dalhousie	McMaster	Queen's
Ontario	Cärleton	2	-	2	8	9
	Guelph	-	3	-	3	5
	Laurentian	-	6	1	2	1
	McMaster	7	10	3	18	16
	Memorial	-	-	-	1	1
	Ottawa	-	-	-	2	6
	Queen's	8	8	2	6	26
	RMC	-	2	1	1	3
	Ryerson	-	-	2	8	4
	Toronto	5	4	6	11	6
	Trent	4	2	-	5	4
	UOIT	2	_	2	7	4
	UWO	-	_	-	2	-
	Waterloo	2	4	4	14	9
	Western	-	1	-	3	7
	Windsor	-	-	-	-	2
	WLU	-	-	-	1	2
	York	_	6	3	4	3
		30	46	26	96	108
PEI	UPEI	-	-	3	-	-
		0	0	3	0	0
Quebec	Bishop	-	-	-	-	1
	Concordia	-	-	-	1	4
	Laval	7	12	3	4	-
	McGill	10	7	6	11	8
	Montreal	2	3	2	1	-
	Sherbrooke	2	-	-	6	1
		21	22	11	23	14
Saskatchewan	Saskatchewan	-	-	3	-	4
		0	0	3	0	4
USA	CHC	-	_	_	1	_
	Montgomery College	-	-	-	-	1
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	Participants	51	75	78	131	151
	Applications	56	110	94	168	176