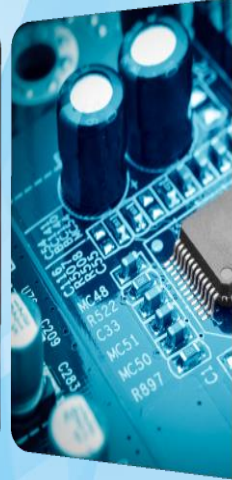
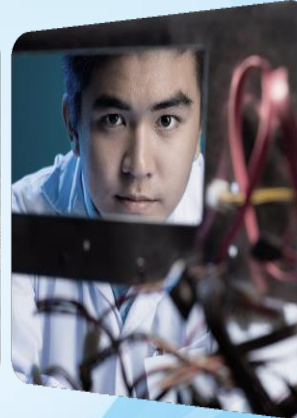
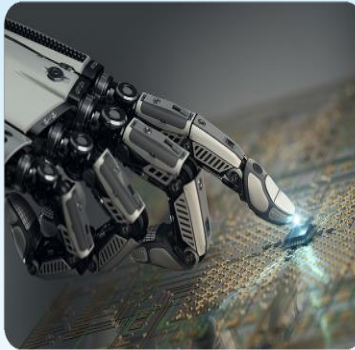




IEEE Canada



IEEE Canada Region 8 Meeting

*Maïke Luiken, Jason Gu, Witold Kinsner
Malta, March 16, 2019*



I am Committed to A Better World for All



IEEE Canada



*Interaction is the Catalyst of Innovation
Education is the Catalyst of Sustainability*



- › **Maike Luiken**
- › **Ph. D., Physics**
- › **IEEE Canada President, Region 7 Director**
- › **Managing Director, Carbovate**
- › **Adjunct Professor, Lambton College, Sarnia, ON, Canada**
- › **Adjunct Professor, Western University, London, ON, Canada**
- › **SMIEEE, Fellow of the Engineering Institute of Canada**





Where I live and work:

Sarnia-Lambton, Ontario, Canada

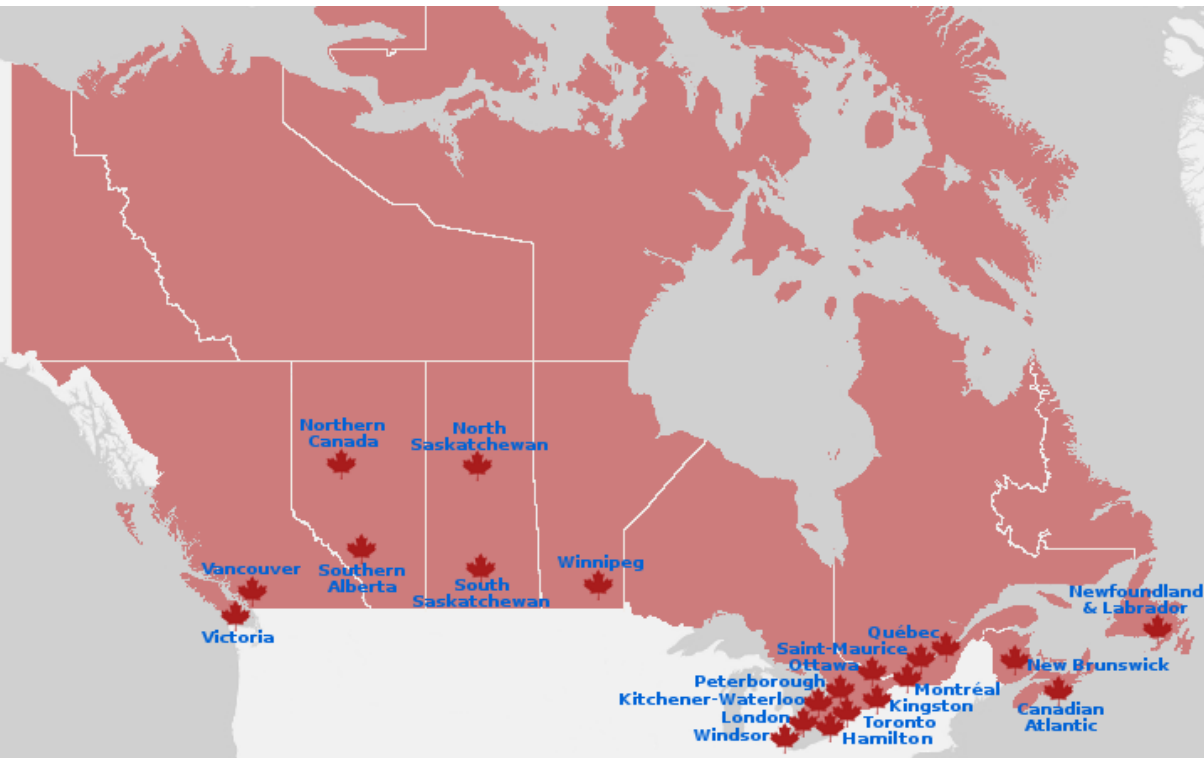
Sarnia-Lambton brings together Natural Beauty, Industry and Agriculture with easy access to the US and Canadian marketplaces.



Geographical – Region 7



IEEE Canada



IEEE



IEEE OU Analytics

Region Summary

This dashboard provides interactive views of IEEE Regions

- Hover over a Region to display a tooltip with statistical facts.
- Select a Region to view Member, Section, Chapter, Affinity Group and Student Branch facts.

IEEE Members	Society Members	Sections	Subsections	Chapters	Affinity Groups	Student Branches	Student Affinity Groups	Student Branch Chapters
17,480	7,731	21	2	151	39	62	15	44





Geographic IEEE Membership Summary - December 2018

REGION	Higher-Grade w/o GSM				Graduate Students				Undergraduate Students				TOTAL MEMBERS			
	2018	2017	Change		2018	2017	Change		2018	2017	Change		2018	2017	Change	
			#	%			#	%			#	%			#	%
1	25,611	26,350	(739)	-2.8%	1,737	1,756	(19)	-1.1%	2,217	2,101	116	5.5%	29,565	30,207	(642)	-2.1%
2	22,084	22,804	(720)	-3.2%	1,554	1,501	53	3.5%	1,492	1,503	(11)	-0.7%	25,130	25,808	(678)	-2.6%
3	22,540	22,867	(327)	-1.4%	2,333	2,210	123	5.6%	2,675	2,510	165	6.6%	27,548	27,587	(39)	-0.1%
4	16,207	16,459	(252)	-1.5%	1,752	1,729	23	1.3%	1,942	1,719	223	13.0%	19,901	19,907	(6)	0.0%
5	21,485	21,706	(221)	-1.0%	1,715	1,765	(50)	-2.8%	2,282	2,162	120	5.6%	25,482	25,633	(151)	-0.6%
6	44,165	44,967	(802)	-1.8%	2,817	2,714	103	3.8%	4,329	4,129	200	4.8%	51,311	51,810	(499)	-1.0%
R 1-6	152,092	155,153	(3,061)	-2.0%	11,908	11,675	233	2.0%	14,937	14,124	813	5.8%	178,937	180,952	(2,015)	-1.1%
7	13,038	12,630	408	3.2%	2,235	1,930	305	15.8%	1,980	1,651	329	19.9%	17,253	16,211	1,042	6.4%
8	53,866	53,395	471	0.9%	10,768	10,350	418	4.0%	12,885	12,423	462	3.7%	77,519	76,168	1,351	1.8%
9	9,649	9,486	163	1.7%	1,467	1,480	(13)	-0.9%	7,108	7,425	(317)	-4.3%	18,224	18,391	(167)	-0.9%
10	70,307	66,670	3,637	5.5%	19,168	17,256	1,912	11.1%	41,052	41,781	(729)	-1.7%	130,527	125,707	4,820	3.8%
R 7-10	146,860	142,181	4,679	3.3%	33,638	31,016	2,622	8.5%	63,025	63,280	(255)	-0.4%	243,523	236,477	7,046	3.0%
TOTAL	298,952	297,334	1,618	0.5%	45,546	42,691	2,855	6.7%	77,962	77,404	558	0.7%	422,460	417,429	5,031	1.2%





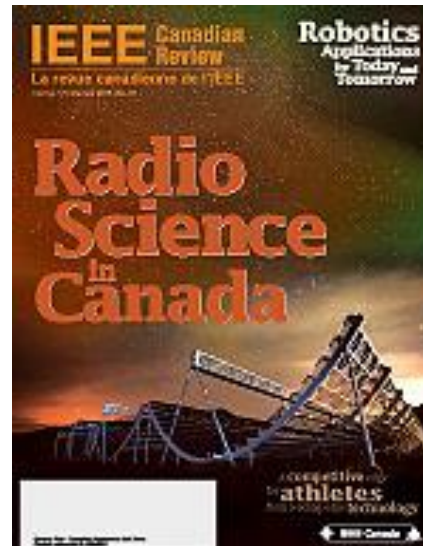
NEWS:

- **14 new Student Branch Chapters and Chapters have been formed across the country in 2018**
- **Significant growth in membership during 2018**
- **IEEE Sections Congress will come again to Canada: August 2020 in Ottawa**



NEWS: IEEE Canada

The IEEE Canadian Review will be delivered electronically for all IEEE Canada members - including students



[Browse Digital Version Online](#)

[Download Navigable PDF](#)



NEWS:

First ever WIE TECH^W held in September in Vancouver



First time the Pacific North West Young Professionals Workshop was held in Canada, August in Vancouver

First time WIE International Leadership Summit was held in Canada, September in Toronto



In September 2018 in Mississauga:

- “STEMpowered Leadership” WIE ILS and Congress
- Student Congress
- Young Professionals Congress
- Multigeneration Workshop led by Life Members

IEEE Canadian Foundation

Philanthropic Partner of IEEE Canada



IEEE Canada



www.ieeecanadianfoundation.org

Learn

- CRA registered charity in Canada & incorporated Ontario non-profit
- Donors have direct impact, not supported by dues, rebates
- All Canadian Board, all volunteers
- Collaboration with IEEE Foundation when appropriate
- **Funds held, managed, disbursed in Canada**
- **Over \$1.8M disbursed to YE2017**

Like

www.facebook.com/ieeecanadianfoundation

Donate

- IEEE dues renewal & shopping cart
- Online via website & Canada Helps
- Mail
- Bequests, gifts in memory or in honour
- Endow a scholarship/prize/award
- Charitable tax receipt (in Canada)



Grants to new and innovative projects in Canada that seek to apply technology for the benefit of humanity

IEEE McNaughton Learning Resource Centres and related scholarships

Fund administrator for peer recognition programs and scholarships within Canada





Success Story

University of Waterloo Sailbot

- 2017 Special Grant to University of Waterloo Student Branch
- Design and build Sailbot to compete in 2018 International Robotics Sailing Regatta
- “Companies are looking to employ students who have extensive practical experience in their respective fields. This makes UW Sailbot a great starting place to gain more experience.”
- “Students also learn real world skills when physically building, wiring, and programming the vessel. With knowledge and experiences in various fields, all the UW Sailbot members find prestigious co-op jobs easily. “





Success Story

University of Victoria Hybrid Management System

- 2017 Special Grant to University of Victoria student team
- Design and build a hybrid vehicle accumulator management system for vehicle coemption
- “Everyone involved on the project gained hands-on design experience including digital design, PCB design and designing for manufacturing considerations, design review processes, project management, budgeting, and working with a team and towards a common deadline.”





Success Story

McMaster McNaughton Learning Resource Centre

- 2017 Upgrade Grant to McMaster University Student Branch
- Refreshes Centre since last grant in 2007
- Arduinos, Raspberry Pi's, breadboards, monitors, safety glasses, soldering irons, sensors and peripherals
- Raspberry Pi and soldering workshops
- “we’ve furthered our experiential learning and are making the best of our time in University and benefiting the community around us”



There now 41 McNaughton Centres in Canada



IEEE Canadian Foundation Nick Cercone Graduate Scholarship in Computer Science

- ▶ Established and funded by friends, colleagues, family members
- ▶ exceptional promise in research that will have real-world applications outside Computer Science and who has been active in helping others
- ▶ \$3,000/one recipient per year
- ▶ Nominations by April 30
- ▶ Review and selection by friends of Nick Cercone & Canadian Artificial Intelligence Association



<http://nickcerconescholarship.ca>

IEEE Canadian Foundation Dr. Robert T.H Alden Scholarship

- McMaster Power Engineering Professor
- Fully engaged volunteer, leader, visionary in IEEE Canada, IEEE Canadian Foundation and IEEE
- student authoring a tutorial style article
 - addressing innovative use of the internet, social media or other electronic media to foster interpersonal/group communication or collaboration
 - article must be suitable for publishing in an IEEE publication such as the IEEE Canadian Review, The Institute, Spectrum, IEEE Potentials, IEEE or Foundation social media or web site
 - “Travelling the Information Highway”
- Apply by March 30
- All IEEE student members who are registered in an Engineering or Computer Science program at a Canadian University or College are eligible
- Award 1x\$1,500+ annually





Job Security?

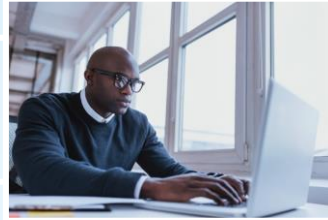
No one can give
you that anymore



Professional Security

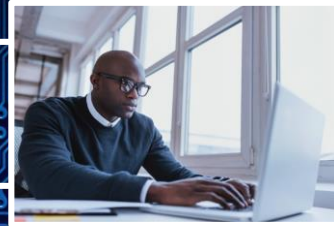
With IEEE, a professional **current** in the theory and technology, as well as **networked** with others, becomes the **most valuable person** in their organization.

When a job vanishes, he/she will find another job.



IEEE

*Inspire
Engage
Encourage
Empower*



IEEE

The Members

Inspire
Engage
Encourage
Empower

Who?

Your Colleagues

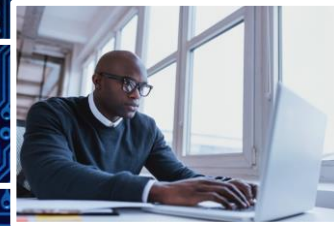
The Volunteers

Your Community, Friends and
Partners

Potential New
Members



IEEE



IEEE

Inspire
Engage
Encourage
Empower

How?

The Members

Your Colleagues

The Volunteers

Potential New
Members

Your Community, Friends and
Partners



IEEE





MEET – NETWORK – TRAIN – LEARN from each other

- **Student Congress every year** – together with Region 7 Face-to-Face Executive Committee meeting
 - Student Branch Chair and SB Counselor (once)
- **Student – Industry Career Sessions** at our conferences

MEET LOCALLY – A PLACE TO WORK AND INVITE OTHER STUDENTS

- **IEEE Canadian Foundation funding towards McNaughton Centres at Student Branches**



➤ **GET RECOGNIZED**

- **Scholarships** for outstanding SB volunteers to off-set costs of last year of undergraduate studies
- **George Armitage Award** – Student Branch Award
- **R7 Student Branch Counselor Award**

➤ **HAVE FUN**



- ***BE REACHABLE – CONNECTED – REACH OUT TO OTHERS (TOOLS)***
 - **Maintaining a list (listserv)** with aliases for student branch volunteers, counselors, mentors, others who are interested

- ***BE SEEN – BE VISIBLE – to colleagues, friends, the community***
 - **Feature Articles about SB achievements** on the IEEE Canadian Foundation Website, in the IEEE Canada Newsletter and in the IEEE Canadian Review magazine



- **ENGAGE IN PROJECTS** – *‘do things together’ – have a goal*
 - **Project funding** available through the IEEE Canadian Foundation

- **BE HEARD**
 - **Region Student Representative is voting R7 Board member**



- Congress every second year – together with:
 - Region 7 Face-to-Face Executive Committee meeting
 - Student Congress
 - **Multigeneration Workshop** – organized by the Life Members during the day before the Student, Young Professional and Women in Engineering Congress

- **Communications** via Newsletters, e-notice



- **WIE, Young Professional, Student and Industry Sessions at our Conferences**
- **Regional events** (neighbouring Cities) encouraged and supported
- **Awards**



A list of suggestions:

- **Face-to-Face Events** should have a **technical/professional** component **AND** a **social** component (at least have long coffee breaks for networking) -> learn, debate, make connections and have **fun**.
- **Hot topic events** (Blockchain, Cyber Security, AI ..) – often **co-organized by multiple IEEE groups** – YPs, WIE, students, others – are well attended by members and community members.



A list of suggestions continued:

- **Projects / Events** are great:
 - Sharing Knowledge, Knowhow, Enthusiasm, Resources
 - Building Connections, Networks, TRUST, Communities
 - Challenges, Best Practices, Opportunities, FUN(?)
 - Humanitarian and/or Community Projects



A list of suggestions continued:

- Work with **other IEEE groups** – EA, Societies, Standards ..
- Have a **Plan!**
 - **What, When, Who, Where, How?**
- **Communicate**, communicate, communicate ...
relevant, timely, to the point --- **Collabratec**



Stakeholders:

- members
- volunteers
- communities
- organization
- projects, events, conferences

Build a better IEEE Canada ... IEEE Canada 21.0



- **For Humanity**
- **For your Community**
- **For your Family and Friends**
- **For IEEE**
- **For Yourself**

- **Collaborate and Partner – Remember: $1+1 \rightarrow 2,3,4,5...$**



TOGETHER
WE CAN and WILL

Build a Brighter Future
For ALL

You ARE Building it NOW



See you at Sections Congress August, 2020 In Ottawa, Canada

Sections Congress

Sections Congress is the one major meeting sponsored by IEEE that brings together the grassroots leadership of IEEE so that they can share ideas, concerns, and solutions.

The Congress is also a forum where the Section Chairs speak as the collective voice of IEEE members, expressing ideas about how IEEE can better serve its members, both now and going forward. The issues generated at Sections Congress have had a major impact on the plans made by the IEEE leadership for the future of IEEE.

Ottawa, Canada has been selected as the location for Section Congress 2020. [Learn more about the IEEE Sections Congress 2017](#)

E-mail MGA Staff (sc-coordinator@ieee.org) with questions





Please, send your comments to

maike.luiken@ieee.org