

Annual Report 2020-2021

50th Frontenac, Lennox & Addington Science Fair/Expo-sciences

Great Ideas...Great Potential!

The **Frontenac, Lennox and Addington Science Fair (FLASF)** is the regional science project competition for students in Grades 5 to 12 run annually in the spring in Kingston, Ontario. It is open to English-language and French-language students in public and Catholic schools, private schools, and to home-schooled students located within the counties of Frontenac, Lennox and Addington.

The **50th Frontenac, Lennox and Addington Science Fair** was an online event where participants created and showcased their projects online using Project Board hosted by Engineering.com and Youth Science Canada. Participants were judged virtually using Zoom on several occasions throughout the week of the FLASF Science Fair and an Awards Ceremony and Keynote presentation wrapped up the week. This year's Keynote speaker was astronaut Chris Hadfield and not only FLASF participants, but also many schools, students, teachers, and families in the Kingston, Frontenac, Lennox and Addington area and around the world joined a virtual Question and Answer session with Canada's "First Canadian to Walk in Space".

The 2021 FLASF Science Fair was smaller than previous years due to the challenges of COVID-19. School Boards cancelled all field trips for the year, teachers were not able to commit to Science Fair units due to virtual/remote and in-classroom challenges, and Youth Science Canada faced many delays in getting the Project Board platform up and running.

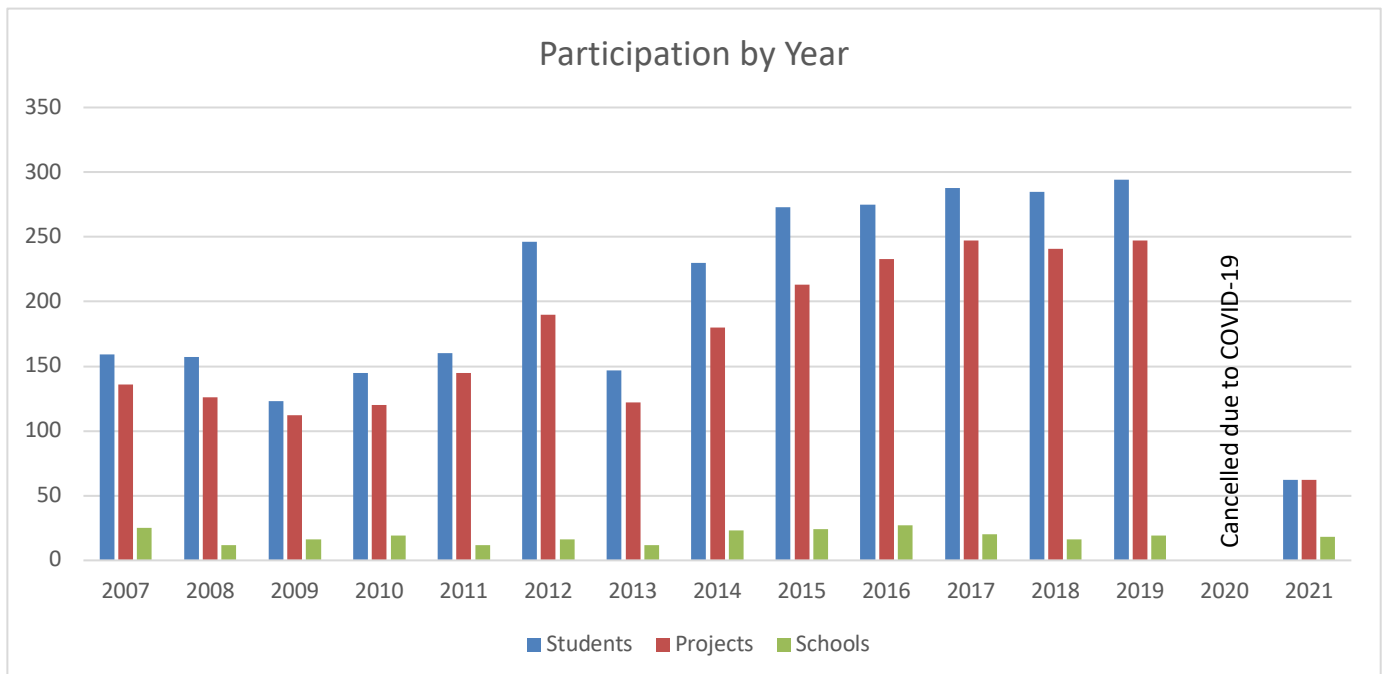
The FLASF committee worked hard to support the students who participated in the 2021 fair and FLASF was the first science fair in Canada to use the Youth Science Canada's Project Board platform and to have virtual judging.

The FLASF committee would like to thank all our sponsors, volunteers, community supporters, parents, teachers, and students. We look forward to a return to operations and hosting the 51th FLASF Regional Science Fair using an in-person or virtual platform in March 2022.

Sponsorship and support of the Frontenac, Lennox and Addington Science Fair ensures all youth who are interested science and who want to participate in Science Fair are able to be part of FLASF!

FLASF 2021 facts:

- 62 students registered
 - grade 5 and 6 – 35
 - grade 7 and 8 – 24
 - grade 9 and 10 – 1
 - grade 11 and 12 – 2
- 62 science projects
 - students competing in four project divisions:
 - computing & engineering
 - physical & mathematical sciences
 - life & earth sciences
 - human health sciences
- 44 judges from the local science community were ready to volunteer their time to meet the students and judge the projects
- 51 Special Awards were awarded to participants
- Virtual Keynote Presentation: Question and Answer Session with Commander Chris Hadfield, Canadian Astronaut
- All students presenting a project received a special FLASF t-shirt and a FLASF water bottle. All t-shirts, water bottles, medals, and awards were delivered to students at their school according to Ontario Health protocols.



FLASF Best of Fair:

Five of the Best-of-Fair students went on to represent the Frontenac, Lennox and Addington region at the Virtual Canada-Wide Science Fair (CWSF). The students did very well, winning three Youth Science Canada awards for excellence and seven university scholarships. The CWSF was held from May 17-21, 2021. CWSF is Canada’s highest level of science fair competition. It brings together close to 500 students from across the country and provides an experience of a lifetime, with students from all across Canada meeting and interacting with fellow students, and industry and academic professionals in their field of interest. The five FLASF students were joined by two FLASF Committee members as they experienced the Virtual Fair and all expenses were covered by FLASF.

FLASF Best-of-Fair Awards for 2021

Students in Grades 7 to 12 are eligible for the Best-of-Fair awards. The award winners are invited to attend the Canada-Wide Science Fair, held this year virtually and hosted by the Ottawa CWSF team. The following students were the 2021 FLASF Best-of-Fair winners:

Best of Fair Award	Participant	Project	CWSF Results
GOLD	Luca Menard	An investigation into the potential of airfoils in producing extra propulsion for bicycles	Future Motion Creativity in Engineering Award -Intermediate Excellence Award – Silver – Intermediate
SILVER	Olivia O'Driscoll	Using Machine Learning to Assess Trainee Skill in Central Venous Catheterizations	Excellence Award – Silver – Senior Challenge Award - Digital Technology – Senior Youth Can Innovate Award - Senior
BRONZE	Matthew Kabin	Fractal Encryption: Securing anything with Sierpiński triangles	The Actuarial Foundation of Canada Award- Junior Excellence Award – Silver - Junior
HONOURABLE MENTION	Isaac Ho	The Droplet-Stopping Power of Face Coverings	CWSF Participant
HONOURABLE MENTION	Jude Martin	Capsaicin Annihilation! A study on the best way to neutralize the irritating effects of spicy food	CWSF Participant

Join us for FLASF 2022

March 2022

Where we will be celebrating 51 years of engaging Youth in Science

Summary Statement of Operations
July 1, 2020 to June 30, 2021

Revenue		
	Sponsorship	\$ 12,050
	Participant Entry Fees	-
	Special Award Donations	2,625
	CWSF 2001 Trust Fund interest	1,060
	HST Refund & Other	-
	NSERC Grant	-
	Prior Year Revenues	(2,500)
	<i>Note: (refunds for cancelled 2020 Fair cashed in current fiscal)</i>	
	Total Revenue	\$ 13,235
Expenses		
(1)	Students	\$ 7,459
(2)	Judges	-
(3)	Sponsors	-
(4)	Fair Operations & Administration	7,561
(5)	Prior Year Expenses	-
	Total Expenses	\$ 15,020
	Net Income	\$ (1,785)
(1)	Students	
	CWSF registration (5 Students and 2 chaperones)	3,010
	Special Awards	3,300
	Activities/Presentations	-
	Trophies, Medals, T-shirts, Water Bottles & Team Jackets	1,149
		\$ 7,459
(2)	Judges	
	Supper, Refreshments	-
(3)	Sponsors	
	Mailings, Annual Report, Post Cards, Banner	-
(4)	Fair Operations & Administration	
	Outreach, registration, supplies, parking, rentals, first aid services, security & equipment purchase	687
	Bank service charges	5
	Project Board (Tier 2 Package)	3,500
	Website hosting & domain	540
	Website Revamp and migration	1,320
	Storage Unit Rental	540
	HST	969
		\$ 7,561

- FLASF administers the cash awards donated by most sponsors for special awards.

FLASF 2021 Sponsors

A huge thank you to all of our sponsors for their support of FLASF and youth science.

Platinum Sponsors

INVISTA (Canada) Company
JumpHost
Kingston Process Metallurgy Inc.
St. Lawrence College

Gold Sponsors

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NSERC
Ontario Power Generation Eastern Operations
Queen's University, Faculty of Engineering & Applied Science
Queen's University, Faculty of Education
Queen's University, MSTE Group, Faculty of Education
Queen's University, Office of the Vice-Principal (Research)
RJC Ltd. Engineers

Silver Sponsors

Chadwick Engineering
Davidson Engineering Ltd.
Queen's Faculty of Health Sciences

Bronze Sponsors

XCG Consulting Ltd.

Platinum Sponsorship: \$2000 and above

Gold Sponsorship: \$500 to \$1999

Silver sponsorship: \$200 to \$499

Bronze sponsorship: \$100 to \$199

The regional science fair event (FLASF) and attendance at the national science fair competition (CWSF) are made possible by the generosity of local school boards, companies, educational institutions and provincial organizations. In 2020-21, 18 sponsors supported FLASF through donations to the general sponsorship program and 23 sponsors provided special awards. Special thank you to all our sponsors for help make 2021 FLASF Science Fair free for all participants.

Thank you to all our sponsors and volunteers!