

Annual Report 2021-2022

51st 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 **51st Frontenac, Lennox and Addington Science Fair** was a successful virtual 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 over a two-week period and an Awards Ceremony and Keynote presentation wrapped up the second week. This year's Keynote speaker was Dr. Theresa Purzner. Dr. Purzner is a clinician scientist neurosurgeon with a special interest in neuroncology and general neurosurgery. Her lab, in Kingston, ON is focused on interdisciplinary approaches to identifying novel drug targets for brain cancer as well as the translation of promising new drug targets into human-ready therapeutics. Her work has led to the identification of a critical new drug target in the brain tumor medulloblastoma – a discovery that she has since translated into a novel drug for both brain cancer and skin cancer, currently being tested in phase 1 and phase 2 clinical trials. She delivered an inspirational speech for our students and spent time answering their questions.

The 2022 FLA Science Fair saw tremendous growth over the smaller 2021 fair, despite being virtual. Outreach and marketing efforts succeeded in doubling last year's attendance and gaining back close to 50% of pre-covid participation numbers.

The FLASF committee would like to thank all our sponsors, volunteers, community supporters, parents, teachers, and students. We look forward to a return to in-person operations and hosting the 52nd FLA Regional Science Fair in March 2023.

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

FLASF 2022 Facts

- ❖ 130 students registered
 - grade 5 and 6 – 14
 - grade 7 and 8 – 106
 - grade 9 and 10 – 6
 - grade 11 and 12 – 4

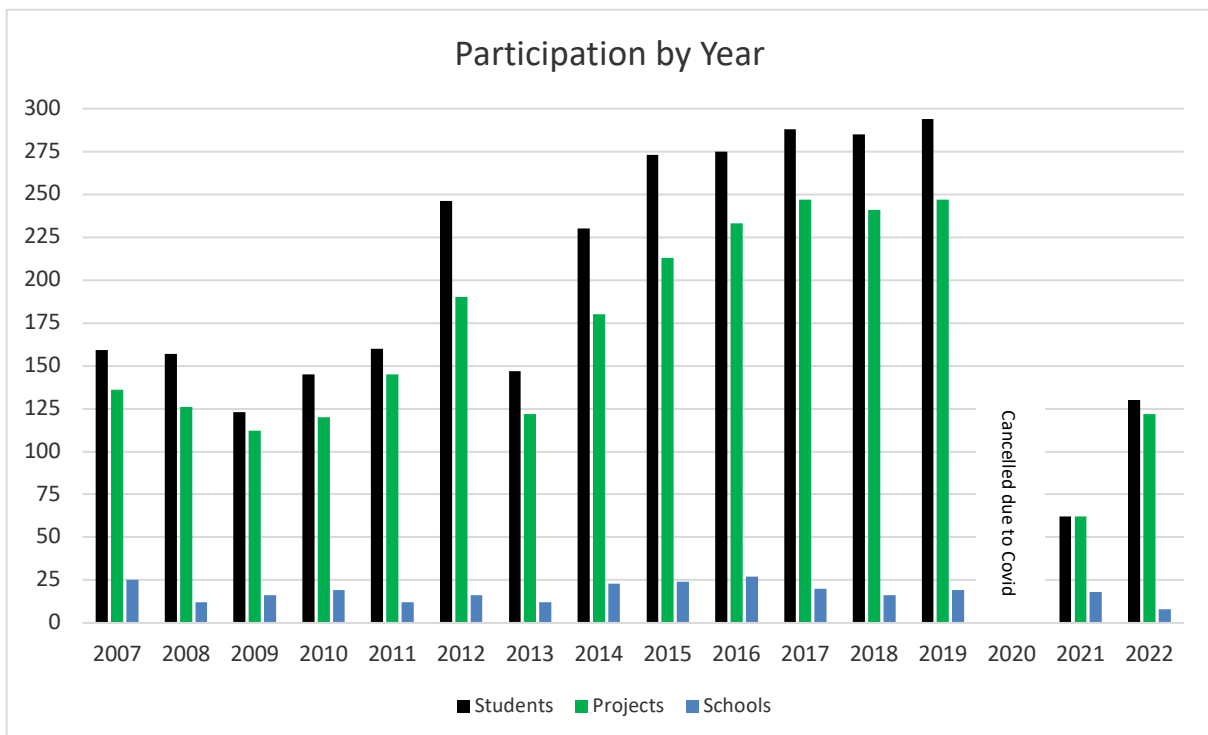
- ❖ 122 science projects
 - students competing in four project divisions:
 - computing and engineering
 - physical and mathematical sciences
 - life and earth sciences
 - human health sciences

- ❖ 62 Category Award judges and 30 Special Award judges from the local science community were ready to volunteer their time to meet the students and judge the projects

- ❖ 57 Special Awards were awarded to participants

- ❖ Virtual Keynote Presentation: Question and Answer Session with Dr. Theresa Purzner

- ❖ All students presenting a project received a special FLASF t-shirt. All t-shirts, medals and awards were delivered to students at their school according to Ontario Health protocols.



FLASF Best of Fair Awards

Students in Grades 7 to 12 are eligible for the Best of Fair awards. These award winners are invited to attend the Canada-Wide Science Fair (CWSF), held this year virtually and hosted by the Fredericton CWSF team.

Our five of the Best of Fair students went on to represent the Frontenac, Lennox and Addington region and Ontario at the Canada-Wide Science Fair. The CWSF took place virtually May 16-20, 2022 (Fredericton, New Brunswick). The students did very well, winning five Youth Science Canada Excellence Awards, five university scholarships, two Challenge Awards and one Special Award.

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 provinces and territories meeting and interacting with each other, and industry and academic professionals in their field of interest. The five FLASF students were joined by one FLASF Committee member as they experienced the Virtual Fair and all expenses were covered by FLASF.

The following students were the 2022 FLASF Best of Fair winners.

Best of Fair	Participant	Project	Canada-Wide Science Fair Results	Division
Gold	Sebi Menard	Roofing for a Green Future	Excellence Award – Silver Challenge Award – Environment & Climate Change	Junior
Silver	Anjali Patel	Discovery of Novel Gene Biomarkers to Improve CAR-T Cell Immunotherapy for Pancreatic Adenocarcinoma	Excellence Award – Gold Challenge Award – Disease & Illness	Junior
Bronze	Parmin Sedigh	Exposure to glyphosate-based herbicide and zebrafish fin regeneration	Excellence Award – Silver Sanofi Biogenius Canada Award	Senior
Honourable Mention	Ryan Layton-Matthews	Walking on Thin Ice	Excellence Award – Silver	Junior
Honourable Mention	Misha van Anders	Canoe believe it?	Excellence Award – Bronze	Junior

Join us for FLASF 2023

March 2023

Where we will be celebrating 52 years of engaging Youth in Science

Summary Statement of Operations
July 1, 2021 to June 30, 2022

Revenue		
	Sponsorship	17,550
	Participant Entry Fees	-
	Special Award Donations	4,275
	CWSF 2001 Trust Fund interest	840
	HST Refund & Other	-
	NSERC Grant	1,000
	Donation	50
	Prior Year Revenues	
	<i>Note: (refunds for cancelled 2020 Fair cashed in current fiscal)</i>	
	Total Revenue	\$ 23,715
Expenses		
(1)	Students	\$ 7,675
(2)	Judges	-
(3)	Sponsors	-
(4)	Fair Operations & Administration	\$6,299
(5)	Prior Year Expenses	-
	Total Expenses	\$ 13,974
	Net Income	\$ 9,741
(1)	Students	
	CWSF registration (5 Students and 1 chaperone)	2,660
	Special Awards	3,505
	Activities/Presentations	-
	Trophies, Medals, T-shirts, Water Bottles & Team Jackets	1,510
		\$ 7,675
(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	1,566
	Bank service charges	11
	Project Board (Tier 2 Package)	2,500
	Website hosting & domain	810
	Website Revamp and migration	-
	Storage Unit Rental	540
	HST	872
		\$ 6,299

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

FLASF 2022 Sponsors

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

Platinum Sponsors

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

Gold Sponsors

Algonquin & Lakeshore Catholic District School Board
BluMetric
Callidus Engineering
E.I. DuPont Canada Company
Limestone District School Board, Elementary
Limestone District School Board, Secondary
Novelis
NSERC Young Innovators Grant
Ontario Power Generation Eastern Operations
Queen's University
Queen's University Faculty of Arts and Science
Queen's University Faculty of Education
Queen's University Faculty of Education, MSTE
Queen's University Faculty of Engineering and Applied Science
RJC Engineers Ltd.

Silver Sponsors

Queen's University Faculty of Health Sciences
Chadwick Engineering

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 2021-22, 20 sponsors supported FLASF through donations to the general sponsorship program and 24 sponsors provided special awards. Thank you to all our sponsors for helping make the 2022 FLA Science Fair free for all participants.

Thank you to all our sponsors and volunteers!