SPARKING CURIOSITY

YOUTH SCIENCE CAMPS IN SOUTHERN SASKATCHEWAN

eyes.uregina.ca
VISION
To provide the youth in grades 2-9 of Saskatchewan the opportunity to experience all aspects of science, technology, engineering and mathematics (STEM) in a hands on, interactive environment.

MISSION
Educating Youth in Engineering and Science (EYES) works as part of the University of Regina, and is a non-profit organization dedicated to promoting STEM subjects to youth throughout Southern Saskatchewan. Through hands-on science experiments and activities students are encouraged to follow their curiosities and ask questions in a safe and open environment. EYES strives to include all children, regardless of culture, socio-economic status, needs, gender, ethnicity, and others who are traditionally underrepresented in the sciences. EYES provides valuable work experience for post secondary undergraduate students and high-school volunteers, enriching the community at the University of Regina.

STAFF
The EYES team is built from a variety of undergraduate and highschool students. They bring experience from a range of STEM backgrounds, experiences, and interests. Some staff work part-time with EYES throughout the school year to provide additional programming that exceeds past the summer months. Over the summer, more that 26 undergraduates join EYES full time with 5 high school students for a summer full of camps and workshops! An overseeing board of advisors, an academic supervisor, and a full time Program Coordinator work to ensure the program continues to grow and prosper.

NATIONAL NETWORK
Actua provides training, resources and support to its national network of members located at universities and colleges across Canada in the delivery of science, technology, engineering and mathematics (STEM) education outreach programming. Each year, these members engage over 225,000 youth in 500 communities nationwide. Please visit Actua at www.actua.ca.
With our ever-growing team of 26 undergrads, 5 high school students (and one Program Coordinator), we were able to reach more than 30,000 youth all over Southern Saskatchewan in 2019! We have continued building a meaningful relationship with Treaty Education Alliance, including 6 weeks of camp in reserve communities over the summer.

We successfully began offering teacher professional development workshops in partnership with Regina Public Library, including a technology lending program. We launched our first ever All Girls Engineering afterschool club, and have already expanded to two schools! Working with TRiP and Regina Police service, we completed 12 weeks of club programming for at risk youth, and are continuing this program into 2020 with the support of the Faculty of Engineering. The Canadian Foundation of Innovation began working with EYES to launch a Regina chapter of Science Machines, a series of single day field trips for Girl Guides to gain hands on lab experiences at the University of Regina.

Finally, we exceeded capacity in our summer camp programming and reached a record number of communities through our workshop program. This year cannot be described as anything other than a complete success.

2020

This year, more than $39,000 was gifted to youth all over Southern Saskatchewan who otherwise would be unable to attend the EYES program, and we would be unable to offer these bursaries without our sponsors.

2020 is poised to be our biggest year yet! We are looking forward to continuing our partnership with Regina Police Service and TRiP to being working with vulnerable youth in North Central Regina. Working closely with our sister program Sci-Fi in Saskatoon, we are looking forward to streamlining our workshop programming to reach more youth.

In the upcoming years, we hope to strengthen our partnership with other facilities within the University of Regina, with hopes to further increase the quality of the program by providing students with real lab experiences, and give them a better idea of what the university has to offer. With these exciting new prospects on the horizon, we are looking forward to continuing to work with Regina and surrounding communities to build a better STEM!

Megan Moore
Program Coordinator
EYES, Faculty of Engineering and Applied Sciences
University of Regina
**WHAT WE DO: WORKSHOPS**

**IN SCHOOL WORKSHOPS**

This year alone, we were able to reach more than 30,000 youth through our hands-on classroom workshops! This represents 24% of all youth in Saskatchewan (2018 Census). We are thrilled to be reaching more communities than ever, travelling more than 18,000 kilometers.

EYES has grown to reach more than 10,000 additional youth a year since 2017 in workshops alone. These grade specific workshops are aligned with the Saskatchewan Learning Curriculum, and integrates engineering and technology wherever possible. We continue to offer all French workshops in Francophone schools when requested.

For a second year, all workshops were based on digital literacy as part of the Federal CanCode initiative and were offered free of charge! We will continue to do so for the forseeable future as we continue to recieve funding. We attribute our growth to being able to offer these workshops for free, helping lower income schools overcome financial barriers.

Through CanCode, we were able to bring the following technology to schools free of charge.
- Ozobots
- Google Expedition Virtual Reality
- Makey-Makey
- Micro:bits & More!

Grade 1 & 2: Avoid that Obstacle & Diving Deep!
Grade 3 & 4: Firbit, Fitbit! & Gummy Tunes
Grade 5 & 6: Who’s Driving that Car & Squicky Rockets!
Grade 7, 8 & 9: Sun, Moon, Earth- Oh My! & Cellular Exploration
BONUS: Hello, Plants! & Snow... Shoes?

**WHAT WE DO: CLUBS**

**SATURDAY CLUBS**

Our Saturday afternoon clubs allow us to reach youth year round, and provides opportunity to explore STEM in a positive, and creative environment outside of school. We currently offer two clubs a semester, one Codemakers and one EYES. Codemakers clubs focus on technology and digital content, where EYES Club hones in on STEM as a whole, giving youth the opportunity to interact with a variety of topics. In 2019, we reached more than 60 youth through our weekend programming. Club youth have processed 3D animation, observed chemistry, and built colossal bridges.
WHAT WE DO: CAMPS

“EYES CAMP SHOWED ME A WHOLE NEW LEVEL OF SCIENCE AND HELPED ME LEARN THAT WHEN SCIENCE CONNECTS TO LEARNING, IT’S A WHOLE NEW LEVEL OF EDUCATION…….”

- EYES CAMP, GRADE 4-6

SUMMER CAMPS

Summer camp is the core of EYES. 2019 saw 1238 campers visit our University of Regina camp programming. Currently we offer 7 weeks of weeklong programming; 5 programs each week at the University of Regina, not including our satellite, outreach, or indigenous STEM (inSTEM) programming. Our on-campus program includes:

- EYES Junior (2 & 3)
- EYES [4-6]
- EYES Senior [7-9]
- All Girls (2-9)

Satellite programs work through a partnered school in a community adjacent to Regina where travelling to the University of Regina each day is not possible for family. Students in grades 2-9 are welcome to join us while we launch egg-stronauts into space, pH test household goods with red cabbage, and work with Ozobots. This year, we were fortunate to host camps in Moose Jaw, Shaunavon, Ezterhazy, Foam Lake, Swift Current, Weyburn, and Watrous. Unfortunately we had to cancel camp in Estevan as there were no campers registered, but even with the loss of a location we were able to extend our reach to an additional 397 Saskatchewan youth.

Our outreach camps target inner-city and FNMI youth throughout the city, where we offer camp for free in a facility that the campers are comfortable with. In partnership with Albert Community School, St. Augustine Community School, Thomson Community School, Connaught Community School and the Open Door Society, we were able to offer a week-long camp, free of charge, to 165 campers!

For the first time, EYES is excited to share that we were able to offer 6 weeks of inSTEM camps in Indigenous communities in Saskatchewan including: Kawacatoose, Ocean Man, Kahkewistahaw, Whitebear, and Cote! Through these new inSTEM camps, we reached 210 additional campers with a 100% FNMI demographic. These camps focused on land based STEM and provided breakfast and lunch for the campers each day.

“THAT THE CAMP HIS A LOT OF INTERESTING THINGS AND I WOULD COME BACK NEXT YEAR. THEN I WILL LEARN MORE!”

- EDESIGN CODEMAKERS, GRADE 7-9

“ENGINEERING AND SCIENCE IS VERY FUN AT EYES CAMP.”

- EYES JUNIOR, GRADE 2-3

*Codemakers is formerly EDesign
WHAT WE DO: ALL GIRLS

ALL GIRLS ENGINEERING CLUB
Winter 2019, we launched a pilot for an engineering club for middle school girls at St. Marguriete School. We hoped for to reach 10 girls, but were lucky to work with 27. This 10 week pilot program focused on providing these middle school girls a sneak peek into the world of engineering, and giving them hands on experience through interacting with mentors from industry.

Fall 2019 we officially launch a 20 week partnership with St. Marguriete School and expanded to include St. Augustine over the school year. In total, we have 63 girls attending weekly club meetings. While we will not finish until Spring 2020 we are so excited to be working with these girls each week.

ALL GIRLS- SCIENCE MACHINES
EYES has partners with the Canadian Foundation of Innovation (CFI) to offer on campus lab experiences for Girl Guides. Once a month, the Girl Guides are invited on campus to participate in hands on lab experiences with female researchers at the University of Regina.

WHAT WE DO: TEACHERS

TEACHER PROFESSIONAL DEVELOPMENT
In 2019, we partnered with the Regina Public Library to offer monthly teacher professional development opportunities. Currently funded by CanCode, teachers can attend workshops for free and discover how to incorporate digital literacy lessons into their classroom both with and without technology. Currently we are working with the Library to offer a technology lending program. Teachers are able to access a variety of CanCode funded technologies for their classrooms for free though the library.

INTERN DEVELOPMENT
EYES works with the Faculty of Education at the University of Regina to ensure that their students have access to technology and resources for their internships. We offer in-class workshops and training for faculty members and students.
WHAT WE DO: INDIGENOUS YOUTH

INSTEM CAMPS
In partnership with the Treaty Education Alliance and NSERC PromoScience, EYES offered 5 weeks of STEM camps across 5 First Nations communities in Southern Saskatchewan, reaching 210 youth in our first year. These week-long programs were offered free of charge, and included breakfast, lunch and snacks. Each community provided a location for the program to be offered at, and supported our staff in building meaningful relationship with the communities. We are looking forwards to offering these programs for the foreseeable future.

OUTREACH CAMPS
Each year, EYES works with community schools throughout Regina to offer week-long programming for youth who are face barrier accessing our on campus programs at the University of Regina. Working primarily with Dreambrokers and school administrators, EYES offered 6 full subsidized camps throughout the community. In partnership with Albert Community School, St. Augustine Community School, Thomson Community School, Connaught Community School and the Open Door Society, we were able to offer a week long camp, free of charge, to 165 campers.

INSTEM CLUBS
EYES happily works with Mother Teresa Middle School to offer a weekly afterschool club as part of their enrichment program. We also expanded our All Girls Engineering club (seen above) to a predominately indigenous schools to offer equitable opportunity for all youth in the community. Finally, 2019 EYES partnered with The TransRegina Intersectional Partnership (TRiP) and the Regina Police Service (RPS) to offer a weekly STEM club for at risk youth in the community. Each week we meet with the youth to offer a hands on STEM related experience in a safe, welcoming environment.
WHERE WE GO

SASKATCHEWAN
YEAS traveled as north as Foam Lake, Saskatchewan and all the way to south to Weyburn to deliver satellite camps. This year, we were able to reach 397 campers across 8 communities. 52 communities outside of Regina booked workshops, allowing us to provide 948 workshops, impacting 10,372 students outside of Regina.

REGINA
We excitedly reached all areas of Regina. We conducted workshops at 24 schools in the community, and offered 6 weeks our outreach camps at local community schools. 265 youth attended our outreach camps, and more that 4,700 Regina students in workshops. As our reach continues to grow, we continue looking for more effective ways to increase our capacity and ensure that quality content is reaching each classroom we enter.
This year, EYES saw its biggest fundraising year to date. Even in an economy where many provincial industries are tightening their belts, it was inspiring to see how much support EYES truly has in the community.
SEE YOU NEXT YEAR!

This year more than $39,000 was gifted to youth all over southern Saskatchewan who otherwise would be unable to attend the EYES program, and we would be unable to offer these bursaries without our sponsors.

We were able to offer 10 completely subsidized programs for at youth but in Regina and First Nations communities in Southern Saskatchewan that would be unable to attend our program otherwise, reaching an additional 375 campers. More then $100,000 is needed to provide lunch, trained staff, salaries, and to subsidize the total cost of enrollment.

Without the generous support of our sponsors, we would be unable to reach the number of students that we so. From the bottom of our hearts, thank you!