





MESSAGE FROM THE PRESIDENT



"The brilliant work of our students, staff and faculty gives me hope for a sustainable future."

I AM DELIGHTED TO SEE

the second instalment of the Sustainability Yearbook. The breadth of content in this publication proves there is much to celebrate when it comes to sustainability efforts on our St. George campus. And the news is timely, arriving on the heels of the Paris Conference, where world leaders negotiated a universal agreement to keep the average global temperature increase to less than two degrees Celsius to prevent the most serious effects of climate change.

The yearbook also clearly demonstrates how the University of Toronto continues to build on past achievements. In 1977, U of T hired its first energy-reduction manager and shortly thereafter set aside a special fund to support energy-saving projects. The creation of the Sustainability Office more than a decade ago was another visionary step forward. As a whole, U of T is a leader in operational sustainability, excelling in waste diversion, sustainable food sourcing and local, efficient power generation.

We're proud of these accomplishments, and we aim to do even more. A recent sustainability survey revealed that the majority of staff and students at U of T consider environmental issues to be a critical focus for the University. This yearbook illustrates that their sustainability actions speak as loud as their words. Taken together with our profound contributions as an international leader in climate change research and teaching, the University community is indeed committed to the fight against climate change.

As a society, we face enormous challenges to ensure that future generations don't bear the burden of environmental degradation. But the brilliant work of our students, staff and faculty gives me hope for a sustainable future. Congratulations to the dedicated team at the Sustainability Office on the publication of their second *Sustainability Yearbook*. And thank you; it truly is Greener Here!

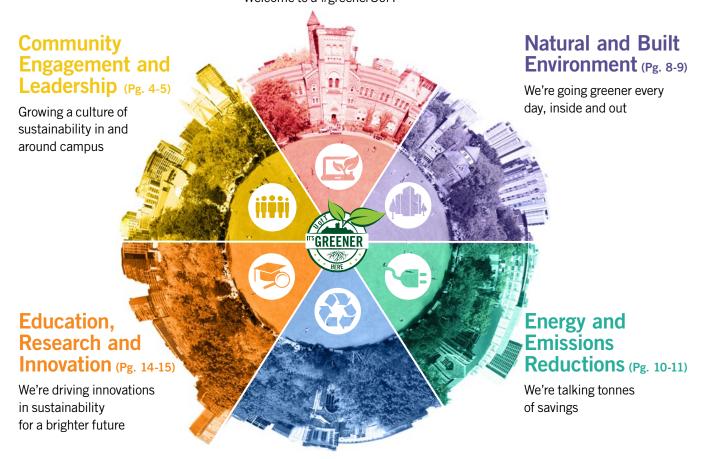
Win's Stetle

Meric S. Gertler President

DISCOVER WHY IT'S GREENER HERE!

Living and Working on a Sustainable Campus (Pg. 6-7)

Small changes, big impact. Welcome to a #greenerUofT



Waste and Materials Management (Pg. 12-13)

Celebrating waste reduction on campus

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Brought to you by









COMMUNITY ENGAGEMENT AND LEADERSHIP

Working to create a sustainable community.



FIVE BRAND NEW LOCAL FOOD CONCEPTS ON CAMPUS THIS YEAR

In September 2015, Food Services launched five new food concepts on the St. George campus—all of which use locally sourced and sustainable foods. Not Just Greens, Soup!, Stone Oven Pizzeria, Tortillas and the Gourmet Burger House deliver customized, high-quality and healthy food options to the campus community.



Did you miss the 2013-2014 yearbook?

Check it out by visiting uoft.me/SustainYB1314



HURON-SUSSEX NEIGHBOURHOOD PLAN

The Huron-Sussex Neighbourhood is a collection of houses and University buildings built between 1850 and 1900, and the City of Toronto, U of T and local residents are collaborating to transform this neighbourhood into a greener community!

Picture this: "living lanes" activated by cyclists and pedestrians, and low-energy and low-water-use designs for residents. We're even exploring a unique "community energy system," which connects the neighbourhood to our own sustainable district heating and cooling system! Keep your eyes on this community—a small laneway demonstration will be there soon.

DID YOU KNOW?



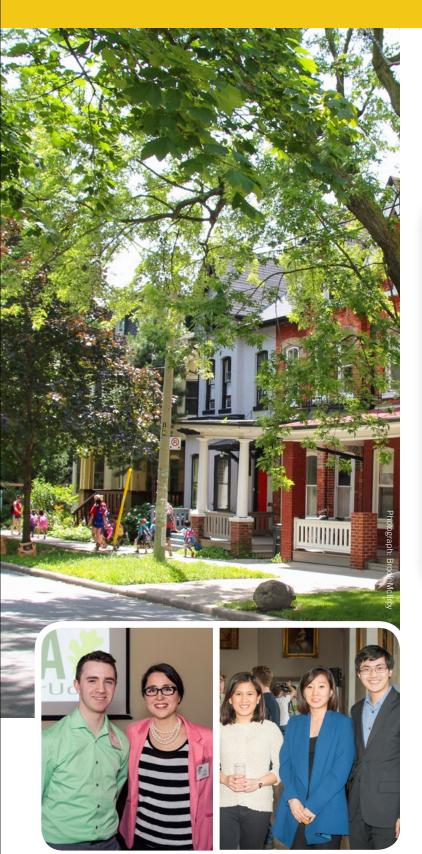
Bikechain, a notfor-profit cycling organization, celebrated their 10th year at U of T in 2015! 3,000+

is the number of U of T staff, students and faculty who have taken The Pledge to live a greener lifestyle. Look for the Sustainability Office Outreach Team to make your pledge, or make one online: uoft.me/the-pledge









Since 2014, the Sustainability Office has hosted a Green Gala to recognize the environmental community on the St. George campus. The Gala brings together staff, students and faculty to celebrate recent accomplishments and inspire future efforts for a #greenerUofT.

GREEN GALA

Sustainability Survey Results

1,700 people participated in the St. George Sustainability Survey to share their knowledge and ideas.



of respondents think sustainability is important.

STUDENT GROUPS

Fair Trade Committee is a group of students, staff and faculty working to make our campus Fair Trade

Hart House **Farm Committee** provides outdoor programming and promotes sustainability at a 150-acre farm in Caledon, north of Toronto.

designated.

UTERN (University of Toronto's Environmental Resource Network) is the meeting point for environmental student groups on campus.



STUDENT-LED ACTION ON CAMPUS

2015 marked 45 years of student-led environmental activism on campus! To celebrate, a second plaque was installed near Robarts Library. The first was put up in 1970 by U of T's earliest student environmental group, Pollution Probe.



LIVING AND WORKING ON A SUSTAINABLE CAMPUS

With a campus community of 75,000+, small changes make a big difference!



Earth Day was made more special with news that we were named one of Canada's Greenest Employers! This competition recognizes organizations that "lead the nation in creating a culture of environmental awareness." Congratulations to everyone who contributes to a #greenerUofT!

PAYROLL GOES GREEN

Since February 2015, all U of T pay stubs are digitized—so long, paper statement and envelope! This Human Resources & Equity initiative has saved the printing and mailing of more than 12,000 statements each month.



DID YOU KNOW?



10%

is the discount Veggie Mondays card holders get when they purchase any vegan or vegetarian meal on campus every Monday! **Veggie Mondays** is a campus-wide initiative to celebrate and raise awareness about plant-based foods. It's free to sign up.





A DAY IN THE LIFE OF A STUDENT ON CAMPUS

9 a.m.

Grab a trayless breakfast



10 a.m.

Catch a gym class at the Athletic Centre, and then shower with solar-heated water



11 a.m.

Find a relaxing green place to study



12 p.m.

Meet friends for lunch at vegetarian café Harvest Noon



2:30 p.m.

Quick fact-check at Gerstein Library, a certified Green Office



3:45 p.m.

Pick up a fair trade caffeine boost with a reusable mug and save 25¢



4 p.m.

Attend PSY 435 Psychology



5:30 p.m.

Rent a bike from Bikechain for an eco-friendly commute



Sustainability Survey Results



of respondents participate in one or more sustainabilityrelated behaviours.

STUDENT GROUPS

■ Bug Bites promotes food consciousness and sustainable consumption by means of

entomophagy—the consumption of insects. (Yes, you read that right!)

Harvest Noon

is a volunteerrun co-op café offering affordable,

locally sourced, fair trade, vegetarian and vegan food.

The U of T Food Policy Council connects and inspires members of the campus community to advocate for sustainable food policy and production on campus.

The U of T Veg Club promotes vegetarian and vegan living for the sake of the planet, our health and animal compassion.



Many classrooms are retrofitted using the latest high-efficiency LED lighting technology with occupancy sensors.



NATURAL AND BUILT ENVIRONMENT

We're making campus more sustainable with LEED-certified buildings, a big boost in water conservation and community bee hives!



KEEPING THE GRASS GREEN

The Smart Irrigation program has helped us reduce irrigation water use by 58%, or more than 64 million litres each year! How did we do it? A centralized water control for our 82+ irrigation systems on campus lets us make adjustments for soil type, plants and weather.



UTSC SPOTLIGHT

In 2015, the University of Toronto Scarborough Campus (UTSC) opened the Environmental Science & Chemistry Building. It's home to the Department of Physical & Environmental Sciences, and will be the first LEED Gold certified lab at U of T. Sustainable features include earth tubes, which use the earth's thermal mass to heat and cool ventilation air brought into the building, thereby reducing energy consumption.

Sustainable Sites Materials and Resources Indoor Water

Efficiency

Environmental

Energy and Atmosphere

DID YOU KNOW?

3,000+



is the number of trees on our campus—and we have hundreds of gardens, too. Breathe in that fresh air! #greenerUofT

LEEDing THE WAY

We're making your work and learning environment more sustainable by upgrading buildings and designing new ones to meet LEED (Leadership in Energy and Environmental Design) standards. LEED is a globally recognized green building rating system. Congrats to our newest LEED-certified building, the Munk School of Global Affairs, which brings our institution's LEED certified buildings total to 12!

DISCOVER THESE ENVIRONMENTAL FEATURES ON CAMPUS

Bee hive

SPADINA

d Bike lane

Food: local, sustainable and vegetarian options

Green roof

Rainwater cistern (above- and belowground)

Solar installation

Sustainability kiosk



Veg and learning garden



Willcocks Commons (car-free zone)

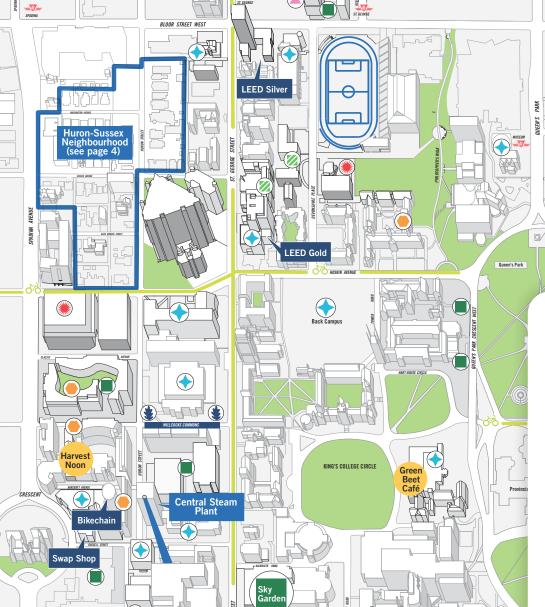
LEED Gold

LEED Gold

Sustainability Survey Results



of respondents are, in part, motivated to take sustainable actions in order to preserve or enhance their ability to connect with nature.



STUDENT GROUPS

SEA (Sustainable Engineers Association) hosts events and provides opportunities for students in engineering and other disciplines to collaborate on sustainability initiatives.

↓ U of **T** Bees educates the community about beekeeping, pollinators and the production of local honey.



ENERGY AND EMISSIONS REDUCTIONS

We're talking tonnes about energy savings across campus.





LIGHTS! ACTION! LEARNING!

Across campus there are tens of thousands of lights inside and outside buildings that you walk by and sit under each day and night. We're in the process of replacing these lights with energy-efficient models that reduce our energy consumption and improve the quality of lighting. You'll spot the new ones in places like the Rotman School of Management, Upper Gym (Clara Benson Building), New College and the Faculty Club.

DID YOU KNOW?



7°C is the interior temperature reduction you can reach in a building simply by pulling down the shades in the summer.



SAVE AND WIN

Facilities & Services' Radu
Ciotirca won the Energy
Managers of Ontario Excellence
Award in 2015. Thanks to the
hard work of Radu and others,
we saved more than seven
million kilowatt hours of energy
last year—enough to power
700 houses!

UTM SPOTLIGHT

University of Toronto
Mississauga (UTM) completed
two buildings, Deerfield Hall
and the **Innovation Complex**,
both of which will be certified
LEED Silver!

Deerfield Hall features a rainwater reuse system, a green roof, low-flow washroom fixtures and energy-efficient mechanical systems.

The Innovation Complex features a green roof, lots of natural light, efficient lighting with occupancy sensors and vertical fins on the exterior of the building to help shade the glass.

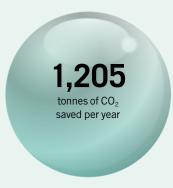


2015 CO₂ EMISSION REDUCTIONS FOR PROJECTS ON ST. GEORGE CAMPUS (BY THE TONNE!)

Reductions based on the latest CO₂ emission factors.



Robarts Library



Medical Sciences Building

tonnes of CO₂ saved per year

Ontario Institute for Studies in Education (OISE)

tonnes of CO₂ saved per year for the buildings combined

Rotman School of Management Thomas Fisher Rare **Book Library** Central Steam Plant Clara Benson Building **Dentistry Building** Simcoe Hall



tonnes of CO2 produced per year

An average family-sized house











ENERGY CONSUMPTION

Even though U of T has increased in population and building space, energy consumption has stayed roughly the same thanks to the ongoing efforts of the Facilities & Services team.

	2005		2015
Population	***************************************	1	
Energy use	5	1	#
Floor area	4	1	44

STUDENT GROUPS

→ **U of T 350.org** is a climate justice group working to encourage the University to divest from fossil fuels.

U of T Solar House Design Team is competing in the Solar Decathlon Europe, an international competition to design and build a fully functioning, sustainable, net-zero-energy home.





Thanks to your efforts, St. George has one of the highest waste diversion rates (70.6%) of any post-secondary institution in North America!

GOING FOR GOLD

The campus-wide commitment to waste and recycling is getting noticed. The Recycling Council of Ontario awarded Gold to St. George for our efforts in waste reduction and diversion.



Of Rhymes & Reams Paper, colour of cream

A ream, 500 sheets

Not enough for a time

U of T, set paper free Saving thousands of quires By using wires

> Save money for seeds All digital, No trees fall

Invoices sent by beams
Of energy
The paperless dream

By Katherine Dupont

OF RHYMES & REAMS

This poem was written in jest to celebrate the paper-saving efforts of Darrel Fernandopulle and his team at Facilities & Services in collaboration with the Chief Information Officer's portfolio. Darrel led the team that changed the paper-based invoice processing system to an electronic payable processing and tracking system, saving 80,000 sheets of paper each year!

DID YOU KNOW?



is the weight of the glass and plastic recycled through our non-contaminated lab glass and plastic recycling program, one of the first of its kind in Ontario.



Our campus uses **Green Seal certified products**, including paper towels and

cleaners. Green Seal offers thirdparty certification based on leadership sustainability standards that help protect the natural world and human health.





11 STEPS TO SUSTAINABILITY IN YOUR WORKSPACE

1. Draw blinds

Pull down during the summer months to keep heat out.

2. Become a Green **Ambassador**

Join a network of sustainability-minded people working to green their workplace and campus. Visit uoft.me/ greenambassadors

3. Bike to work

Reduce emissions on your commute by cycling.

4. Add a plant (or two!)

Plants improve your mood, the air quality and the office environment.

5. Use a stapleless stapler

Get one from Recycling Services.

6. Recycle!

Do your part! See the commonly mis-sorted items below.

7. Bring a reusable mug

You'll divert waste from the landfill and save 25 cents.

8. Get gently used office furniture and supplies

The campus Swap Shop has lots of great items for your office.

9. Pack a waste-free lunch

Reduce waste, buy local and eat healthy.

10. Use a power bar

Easily "unplug" at the end of the day and avoid phantom power with the flip of a switch.

11. Use task lighting

It's more energy efficient than overhead lighting.

SORT IT OUT

Do your part to boost U of T's waste diversion rate even higher by sorting these items into the correct bins.

Food scraps Compost



















(or use a reusable mug)

STUDENT GROUP

Green Chemistry Initiative

(GCI) is a group of graduate students and postdocs in the **Department of Chemistry** who joined forces to promote sustainable practices in the lab and in everyday life. The group hosts monthly seminars, waste reduction campaigns and other events.





EDUCATION, RESEARCH AND INNOVATION

Whatever your passion, you can green your experience here at U of T!



The Green Roof Innovation Testing Laboratory—**gritlab** for short—is located on the roof of John H. Daniels Faculty of Architecture, Landscape, and Design.

Through multidisciplinary collaboration, researchers are investigating the environmental performance of green and clean technologies such as green roofs and green walls, as well as solar panels, which will soon provide electricity for the building.

DID YOU KNOW?

540+

is the number of certified Green Courses at

St. George. The Green Courses program focuses on paper reduction and sustainable behaviours. Certify your course at uoft.me/greencourses

PEDALLING FORWARD

Realizing conventional bicycles are not everyone's cup of tea, Sojourn Labs set out to build a pedalled vehicle that could be safely and comfortably operated year-round on the streets of Toronto. Working out of the Impact Centre at the Banting & Best Centre for Innovation & Entrepreneurship, they've created a fully operational prototype and are now at work on their second.



CHRISTELLE BROUX

BSc student, class of 2016

Double major in

Environmental

Science & Physical

& Environmental

Geography, minor in

Environmental Studies

My favourite part of my programs is that they allow interdisciplinary learning. I truly feel that I've expanded my perspective on environmental issues, and I'm thankful to U of T for helping me on this journey!







Sustainability Survey Results



of respondents said they care about understanding or acting on environmental issues.

STUDENT GROUPS

◆ Blue Sky Solar Racing Club's newly built Horizon solar car travelled 3,000 km across the Australian outback in the 2015 Bridgestone World Solar Challenge, placing third among North American entries.



ENSU (Environmental Students' Union) represents the students enrolled in the School of Environment's programs and affiliated departments.

Rotman Net Impact advocates for incorporating sustainability into the MBA curriculum and was awarded the 2015 International Chapter of the Year.





