

TRENT

50 YEARS
OF TRENT MAGAZINE

WINTER 2019 50.1

PUBLISHED BY THE TRENT UNIVERSITY ALUMNI ASSOCIATION

Anastasia Kaschenko '12

Out of Thin Air: Alumna Harvests
Water from the Atmosphere to Help
Water Scarce Parts of Africa

David Grand '79

Cannabis Production CEO on
Legalization, Cultural Change,
and the Pot Economy



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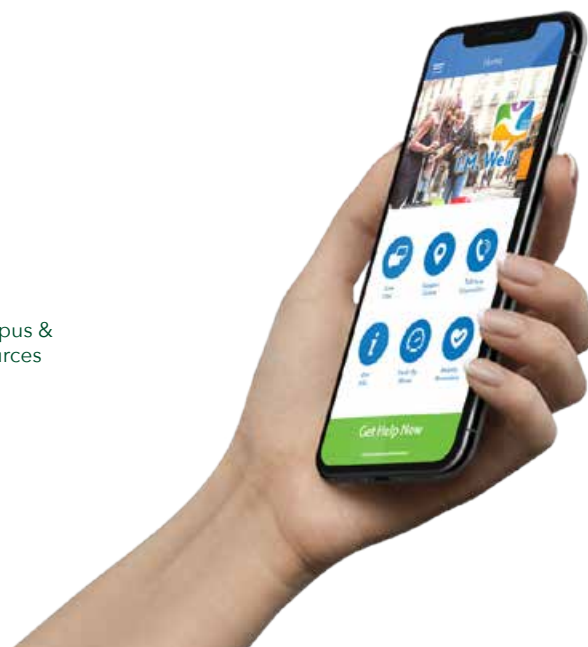
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THE TIMES THEY ARE A-CHANGING



Arriving at Alumni House one day earlier this fall, the ever-curious Alumni Engagement and Services staff were puzzled to find a circle of 4x4 timbers sticking out of the ground on the Champlain College back lawn.

"It's a smoking structure," explained our convocation manager, Joanne Sokolowski (also our Trent Health and Safety Committee representative and inside source on such matters).

"Whoa..." I replied in my best Cheech and Chong drawl. "A pot structure?"

"Donald's Doobie Den!" joked event planner extraordinaire, Sue Robinson. And we laughed and we laughed.

Now, I'll be the first to admit that my long-standing Trent reputation places me squarely into the "counterculture." Rumour has it that there are still photos floating around of my 1990s patched jeans and long hair. To this day, the word "man" still populates my turns of speech, particularly when surprised or amazed. (As in: "Wow, man! A doobie den!") But, in all honesty, I'm not all that much of a pothead. In these newly liberated times, I suppose it is safe to say that, while I might take a periodic nibble, I haven't smoked in quite a while.

Which makes it all the more surprising that the name has stuck. Heck, Champlain principal, Tina Fridgen, claims there's even signage being made.

There are worse things to have named after you I suppose. Washrooms come to mind.

But the fact that I'm even joking about this in a university publication means that the times have, indeed, changed. Recreational pot is now legal. Medicinal THC and CBD have become parts of mainstream therapies. Cannabis companies are booming on the stock market.

With societal interest in marijuana hotter than a Zippo lighter, the editorial board of *TRENT Magazine* decided to explore a few of the many elements of the cannabis story. We approached alumnus and former Trent Board of Governors member, **David Grand '79**, founder/CEO of Muskoka Grown, a multi-million-dollar, 65,000-square-foot cannabis production facility, to discuss how legalization will affect our economy. We contacted Ruth Walker, the manager of Trent's Student Health Services, to examine the intersection between recreational cannabis and student life. And we called out to alumnus **Adam Hopkins '03**, vice-president, Enrolment Management and Student Services for the First Nations Technical Institute, to delve into how legalization is affecting existing Aboriginal cannabis businesses. It all makes for a fascinating look at a very complex topic.

Speaking of changing times, it is always exciting to profile young alumni and the work they are doing—particularly when that work is impacting others in a positive way. In this edition, we're featuring an interview with alumna **Anastasia Kaschenko '12**, who, along with her colleagues in the startup Majik Water, is rolling out programs to harvest drinking water from the air in order to supply drought-stricken parts of Africa.

Over on our *TRENT Magazine Live* website, we have a podcast interview with alumna **Jenna Pilgrim '12**, director of business development at Bloq Inc., who gives us a thorough introduction to how crypto currencies work, and where that tech is heading in the future. Both of these alumni graduated just two years ago.

It makes for some great reading... Man.

Donald Fraser '91

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ENDLESS POSSIBILITY

Looking back for inspiration looking forward

Sometimes, we all need a dose of inspiration. When you do, I encourage you to check out what the Trent community—*your* community—has been up to. You'll find faculty making headlines with innovative research; students contributing around the world; Excalibur athletes topping the podium; and our campus community exceeding its potential locally, nationally, and around the world.

Before you dive into the pages of this issue of *TRENT Magazine*, I want to take a moment to reflect on a few inspirational Trent highlights from the past year—think of this as your 2018 Trent top story recap.

In 2018, *Maclean's University Rankings* ranked Trent as the **#1 undergraduate university in Ontario for the eighth straight year**. It placed us third in Canada among primarily undergraduate universities. This and other impressive national and global rankings (recently they include a ranking in the top 100 environmental universities in the world) underscore the exceptional academic reputation and vibrant student life that Trent is known for.

Other highlights last year included a \$20 million renovation of the **Bata Library** which has transformed it into a **library of the future**; the appointment of academic principals for each of our colleges (Melanie Buddle, Stephanie Muehlethaler, Tina Fridgen, Christine Freeman-Roth, and Michael Eamon) as an element of **college revitalization**; the **launch of the Chanie Wenjack School for Indigenous Studies** and the implementation of a required Indigenous credit for all undergraduate students. Student successes include the awarding of Trent's fifth Rhodes scholarship to Joshua Low, a fourth-year International Development Studies student from Malaysia.

As you read through this issue of *TRENT Magazine* you will read about other highlights. They include a **\$1.13 million gift to Trent** from a former chair of our Board of Governors, the late Jalyann Bennett. The gift came with one condition—that Trent use it to do something "bold, audacious and effective." I believe she would be happy to know that her gift will support a combination of projects that aim to dramatically enhance Trent's campuses in Peterborough and Durham GTA. They include sculpture for our Public Sculpture Initiative; an amphitheatre at Traill College; a new Crime Scene House; a courtyard for our Durham campus; and projects that will enhance our trails and wildlife areas in Peterborough.



From left: Board of Governors Chair **Stephen Kylie '72**, Leo Groarke, Bata Library lead donors Joan and David Moore, Anna Nason, Trent Chancellor **Don Tapscott '66**, Trent Director of Philanthropy **Sherry Booth '98**, at the Bata Library Transformation celebration.

In 2018 Trent's reputation for **research excellence** grew with the appointment of two new Canada Research Chairs (CRCs), bringing Trent's total to an impressive seven. Dr. Ian Power, a new faculty member in the School of the Environment, was appointed the first-ever CRC in Environmental Geosciences. Dr. Whitney Lackenbauer, a faculty member in the School for the Study of Canada, was named a tier 1 CRC in the Canadian North and will play a key role maintaining Trent as a university with unique expertise in the North. You will read more about our research excellence in the article on the Trent Water Quality Centre in this issue of *TRENT Magazine*.

As Trent evolves and reaches new milestones, it is important to remember and celebrate our past. Two giants of Trent's past are celebrating key birthdays this year. In January we celebrated Paul ("PSB" or "Willie") Wilson's 80th with an event that included a panel discussion in the Trent Athletics Centre featuring three Trent alumni—**Jennifer Sipos '91**, **Caleb Smith '93** and **Julianna Stonehouse '96**—sharing the values they learned under Paul's leadership (and many wonderful anecdotes). Everyone is invited to an event celebrating the 90th birthday of our Founding President Tom Symons, being planned for May.

Indigenous Studies at Trent is marking its 50th anniversary in 2019, and celebrating with a number of events. A half century anniversary milestone is also being celebrated by **Lady Eaton College**. In honour of LEC, we aim to raise \$100,000 for a new Lady Eaton College endowment that will allow its Principal to support events every year.

Looking ahead we have much to be grateful for, and much to be excited about—the expansion of Trent's Durham GTA campus, the growth of Cleantech Commons under newly appointed executive director Martin Yuill, and many innovative new programs, just to name a few. I invite you to keep up with everything happening on Trent's campuses by visiting trentu.ca/news and follow along as we continue to exceed our potential in 2019 and beyond.

Dr. Leo Groarke, Ph.D.
President & Vice-Chancellor



Dr. Ian Power

WHAT'S NEW

AT TRENT UNIVERSITY



Rhodes Scholar Joshua Low

On the Road to Rhodes

Following in the footsteps of presidents, prime ministers, scientists and world business leaders, Trent University international student Joshua Low has been selected as a 2019 Rhodes Scholar—the oldest and most celebrated international fellowship award in the world.

A fourth-year International Development Studies (IDS) and International Political Economy student, Mr. Low attributes part of his success as a recipient of the coveted scholarship to the personalized learning environment at Trent, the academic rigour of the IDS program, and the incredible support and mentorship from his professors and the Trent International team. Mr. Low is the fifth student in Trent's history to be awarded the prestigious Rhodes Scholarship.

Trent in Africa: Exploring International Collaborations

Continuing internationalization efforts in key regions throughout the world, Trent International and Trent University's president and vice-chancellor led a delegation to the African nations of Ghana, Rwanda and Kenya in January 2019. The delegation met with post-secondary institutions, government officials and alumni to discuss opportunities for future collaboration.

"Meeting with the prospective students and applicants, and with Trent alumni who live there, was a highlight of travels through Africa," said Glennice Burns, associate vice-president, International. "The students we met came with a plethora of questions—and showed a great deal of enthusiasm for the Trent experience."



President Leo Groarke and the Trent delegation met with leadership at Strathmore Business School in Nairobi, Kenya.

Now Available in a Loblaws Near You: Trent Alum's Frozen Dessert Invention

Trent alumna **Brooke Hammer '13**, owner of the Peterborough-based health food startup Chimp Treats, now has her frozen fruit product Nicecream on sale at a series of Loblaws locations across Ontario. It was at Trent University that Ms. Hammer developed an innovative manufacturing process that allowed her to create the fruit-only frozen dessert on a large-scale, commercial basis.

"It was the insight and mentorship by professors and other professionals at Trent that really made a difference

and contributed immensely to my confidence as an entrepreneur," said Ms. Hammer, founding CEO at Chimp Treats.





Katie Taylor '16 (Hon) (centre) visits Trent Durham GTA students.

Canada's First Female Bank Chair Invests \$50,000 to Support Durham GTA Students

"Think about the things you are passionate about, the values that you really care about, and try to find ways as you move through your education and then your career where you can bring those into alignment."

These are the words spoken by Katie Taylor, the first woman in Canada to chair the board of a national bank, during the announcement of her \$50,000 investment in students at Trent University Durham GTA. The Kathleen

Taylor Bursary Fund will provide bursaries for undergraduate students at Trent University Durham GTA who are in financial need and who live in the Municipality of Durham.

Bata Library Transformed

A top-tier visualization space and creativity lab, a Critical Making Studio and three research centres are just a few of the exciting features of the newly transformed Bata Library completed in fall 2018. Like today's most contemporary libraries, the Bata Library offers many diverse social and experiential opportunities with the aim to promote community and a sense of belonging—one of the hallmarks of a Trent education.

"Our vision is a modern, state-of-the-art, connected university library that remains central to the learning experience at Trent. This includes a highly-adaptive, interactive and collaborative environment, which



allows students to take command of their academic experience with access to state-of-the-art technology, and knowledgeable staff, in intellectually stimulating spaces," said Dr. Leo

Groarke, president and vice-chancellor, Trent University. "It is wonderful to see this vision come to life in the new Bata."



SPOTLIGHT ON RESEARCH

As home to many of the world's leading researchers, Trent University has countless stories to tell when it comes to research success. Through our outstanding researchers, world-class facilities, and prestigious schools of study, Trent is a place where ideas and creativity connect and intersect with industry, non-profits, communities and real-world solutions. Read more about some of the top faculty, student, and alumni researchers who are making headlines.



FACULTY

FACULTY RESEARCH SPOTLIGHT

Going Beyond the Lecture Hall and Behind Bars

Trent Sociology professor Dr. Gillian Balfour and her students on their weekly visit to incarcerated people as part of the Critical Perspectives in Restorative Justice course

"The most important experience in my university career." These are the words expressed by a student who recently completed Trent's "Critical Perspectives in Restorative Justice (WMST-4441H)," an innovative undergraduate course that takes experiential learning to the next level. Open to fourth-year Humanities and Social Sciences majors, the course offers students the unique chance to attend weekly classes held

at a local correctional facility. Led by Trent Sociology professor Dr. Gillian Balfour as part of the national Walls to Bridges program, both university and incarcerated students collaborate to examine principles of social justice. By studying with prison inmates as peers rather than mentoring or helping them, Trent students confront their own stereotypical assumptions of incarcerated people, breaking down artificial

boundaries between those on the inside versus the outside.

"Our teachings challenge conventional educational models that rely on the professor as the 'expert,'" explains Professor Balfour. "Instead, we view all students and instructors as both teachers and learners, valuing the knowledge inherent in the lived experiences of criminalization, imprisonment, poverty, abuse, racism and more."



Paige Pascoe

STUDENT RESEARCH SPOTLIGHT

Reading, Writing and Recess

Is playtime more than just a bit of fun? According to new research conducted by undergraduate Psychology major Paige Pascoe, how much we play could also directly impact how well we do in school later on. Working with Trent Durham GTA professor Dr. Nancie Im-Bolter, the fourth-year Psychology student is exploring the possibility that the more preschool children play, the more advanced their reading and math skills are as they develop. Ms. Pascoe understands that the results from her research could influence how we raise our children.

"I feel as though it's important to pursue this research because of the impact it could have on parents and caregivers," she explains. "If play has an influential role in the development of children's reading and math abilities, it would be a relatively easy solution for parents and educators to include more play in their existing interactions with children."

STUDENT

MORE #TRENTURESEARCH HIGHLIGHTS

ALUMNI RESEARCH SPOTLIGHT

A Sticky Solution for Broken Bones

Having surgery to fix a broken bone is traumatic enough. Now imagine going under the knife a second time to remove the metal plate and screws from your body. This rigid hardware can be cumbersome for both doctor and patient alike, which is why two Trent Materials Science alumni have partnered to create a more “bio-friendly” solution.

Co-founding their medical adhesives company Cohesys in 2018, CEO **Michael Floros '15** and COO **Michael Tessier '14**, together with their team, are now set to launch their first product: BoneTape. Dubbed the “duct tape for bones,” their solution is a flexible, biodegradable tape engineered to replace more invasive metal procedures, specifically with craniomaxillofacial (oral, facial, skull, orbital) fractures. Inspired by adhesive proteins of marine organisms, BoneTape is the result of years of research. “The current surgical solutions were over-engineered and difficult to use,” explains Michael Floros. “Designing a new type of adhesive presents a number of mechanical and regulatory challenges, but our team has a wealth of scientific expertise and we’re excited to soon bring this device to market.”

ALUMNI



Michael Floros and Michael Tessier at the launch event for the Prolong mug. Both were co-inventors on the product during their time studying at Trent.

Bold research making a difference in the world. That's the Trent University way. Read on for a sampling of the latest Trent research news featured at trentu.ca/news.

New Hope for Red Wolf Population

Dr. Linda Rutledge '05, assistant professor of Biology at Trent, was a key contributor to a recent study that may prove crucial to the survival of the critically endangered red wolf. Her latest research reveals the remarkable discovery that red wolf DNA was concealed in wild canines on Galveston Island off the U.S. Gulf Coast, a region where the species was deemed extinct nearly 40 years ago.

The Answer is Blowing in Trent's Wind (Tunnel)

When Eyjafjallajökull erupted, confusion ensued, and it wasn't just among news anchors stumbling over their words as they struggled to pronounce the Icelandic volcano's tricky name. With ash suspended above the north Atlantic, pilots' vision was obscured, aircraft glass melted, and jet engines clogged. Dr. Cheryl McKenna-Neuman, a faculty member in the School of the Environment, is working to ensure this doesn't happen again through her research to comprehend how aeolian transport is unique at more northerly latitudes.

An Innovative Approach to the Future of our Food

By the year 2100, the population of Earth could top 11 billion. That's nearly 50% more people than inhabit the planet today, meaning more mouths to feed than current agricultural techniques can produce food for. But food insecurity isn't some problem of the semi-distant future that we can pass along to future generations—it's already here. Nearly a billion people worldwide experience chronic food deprivation each year. Trent's Alexandra Kuhne, a Master of Science student in the Environmental and Life Sciences graduate program, is taking an innovative approach to mitigating the harm that undernourishment causes.

Follow @TrentUniversity #TrentUResearch to read more research highlights and stories, and share your own #TrentU research stories.



LEAVING A *Lasting Legacy*

Jalynn H. Bennett's legacy gift will enrich student life, advance academic excellence, provide environmental stewardship, and increase engagement with local and Indigenous communities

When former Board of Governors chair, the late **Jalynn Bennett '15 (Hon)**, remembered Trent University with a gift of \$1.13 million from the Jalynn H. Bennett Foundation, she encouraged Trent to do something "bold, audacious and effective."

The University plans to do just that in directing this transformational donation, one of the largest legacy gifts in the institution's history, toward projects that will enhance Trent's natural setting, advance academic excellence, increase engagement with the local and First Nations communities, and enrich the student experience.

"Jalynn Bennett was a trailblazer who showed leadership in everything she undertook. She broke glass ceilings and encouraged others to be brave and make their mark," said Dr. Leo Groarke, president and vice-chancellor of Trent University. "She made her own mark at Trent University in many ways, with her steady hand as chair of the Board and in guiding one of Trent's most successful fundraising campaigns. I think she would be pleased to see that her gift will make an enormous difference in very tangible ways. Its impact will be felt across the University's campuses in the spirit of Trent's current tagline, which I think she would have liked very much: 'Challenge the Way You Think.'"

Ms. Bennett's transformational gift will launch and support the following projects:

Nature Areas Stewardship Plan and Enhancement to Natural Areas, Trails, and Teaching Spaces

Trent is conducting a review of the Nature Areas Stewardship Plan and studying campus lands to identify and evaluate areas of natural, cultural and archaeological significance. The funds will support student and public involvement in the review process and invest in teaching shelters, trail improvements, and other resources to enhance the natural areas and their important role in teaching and research.

Forensic Crime Scene House

Ms. Bennett's estate will help build a new state-of-the-art crime scene training facility designed specifically for teaching purposes. The new facility will support the recent launch of Canada's first Masters in Forensic Science at Trent.

Public Sculpture Initiative

The gift will help acquire nationally significant sculptures as part of Trent's new public sculpture initiative, launched during Peterborough's 2018 Artsweek celebrations last September.



*Do something bold,
audacious and effective.*

Recognition of Local Indigenous Communities

Funds will assist the University to recognize the Mississauga Anishinaabeg as the treaty and traditional peoples of this area through honorific naming across the Peterborough and Durham GTA campuses, information panels, and enhancement of sacred and Indigenous teaching spaces.

Traill College Amphitheatre

Engagement with the local arts and music community in Peterborough will be enhanced with the creation of a new outdoor performance space at Traill College.

Campus Arbour at Trent University Durham GTA

Building on Trent's more than 40-year history in the Durham region, Trent's Durham GTA campus is growing. With thanks to gifted land by the City of Oshawa, the campus plans to expand and add several new facilities. This gift will create a vibrant natural and social space at the expanded Durham GTA campus, which will connect the current and planned new building.

Jalynn Bennett was the vice-president of Corporate Development at Manufacturers Life Insurance company before founding her own consulting firm in 1989, specializing in strategic planning and organizational development. She chaired the Board of Governors at Trent from 1994 to 1999. She was known as an intelligent and humble leader. During her service to Trent, Ms. Bennett was passionate about the environment, leadership, and sustainability of the University. She was a champion of philanthropy and was a key volunteer, inspiring others to support the University, especially through a gift in their estate.

To learn more about legacy giving at Trent University, visit trentu.ca/legacy.

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BELIEVER THAT EVERY DONATION MATTERS

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Remembering Trent in his will, Walter's legacy will ensure that deserving students receive support through the Howell Family bursary, regardless of their marks.

What will your legacy be?



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TRENT
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SWIFT CURRENTS: TRENT AND THE CHALLENGES OF THE MODERN UNIVERSITY

I will never forget the blistering heat that greeted me when I arrived in Peterborough on September 1, 2002. Now, it may actually be that the conditions were lovely that day, but I had just spent 26 hours on mass transit, dragging all my belongings from the Bay of Fundy in New Brunswick on a solo journey that included a broken-down train, a missed bus, and an allergic reaction that spread a rash all over me. I arrived at Trill covered in sweat and my eyes filled with tears—quite the auspicious beginnings for someone who would become TUA president 13 years later.

The next day, I wandered around Trill and then journeyed to Symons Campus for the first time. While I was hopelessly lost on campus, I was absolutely certain this was my home. As I stood on the bridge, I watched rowers along the river, working in perfect harmony, and felt absolutely at peace. I was fiercely proud to belong to the Trent community from the moment I encountered it.

Despite that, I knew I was a part of an institution that had struggled. Capital projects were changing the face of campus—in 2002-03, Peter Robinson College was closing and Gzowski College was being built—and the student body and school alike were searching for an identity. Trent's reputation was stellar in some areas, and in others, there was room to grow. Soon thereafter, the financial instability of the school was a common point of discussion. While my pride at choosing

Trent and staying in Peterborough never wavered, even I couldn't deny that things felt a bit bleak at times. It often felt like none of our oars ever hit the water together.

I know what you're thinking: "Gee Jess, this is a great column. Great lead! You're really selling this!"

Stay with me friends...

At my convocation in May of 2007, it hailed sideways on the Bata podium. I'd never seen the water of the Otonabee look so wild, but it felt like a fitting tribute to the end of my undergraduate career. I had grown used to the figuratively rough waters in my life (personally and at Trent), and crashing currents mirrored that.

On that day, it would have taken all my creativity to envision today's Trent: two thriving campuses, a beautifully revitalized library, growing endowments, new programs and departments, a renewed relationship with the First Peoples of these lands, and a lands plan that includes the Cleantech Commons and a sustainable village. This Trent renaissance has been a joy to witness, and it makes my Trent spirit sing. We are gliding over serene waters.

Then, like many, I watched the recently announced Ontario Government changes to post-secondary funding with a heavy heart. These changes, particularly the 10% cut in tuition fees, immediately brought me back to the Trent I first knew—a place with full hearts and empty pockets.

It felt like the honeymoon period of success wasn't even over and we were facing more challenges.

But as I sit overlooking an ice-covered river from the iconic Bata Library, I'm reminded that we are meeting this challenge from a place of strength. We have more capacity to manage outside factors now than we did a decade ago, without a doubt. I know it wasn't chance that took Trent from its precarious place in the postsecondary world to a widely-celebrated university actively recognizing its amazing potential; it took vision, hard work, self-awareness, and all of us paddling in the same direction. We haven't lost any of those things, and I'm eager to do my part to help Trent meet whatever challenges come our way.

Lessons from the Bay of Fundy, where the highest tides in the world transformed my home twice a day, hold true here too—there will always be ups and downs. Today, I trust that our alma mater will continue to succeed, but not without passionate and driven students, careful and considered leadership, deep connections to our communities, and an ever-growing family of alumni and friends who understand Trent's importance. Now more than ever, it's time to dip our paddles in the water together.

Jess Grover '02

President, Trent University Alumni Association





OUT OF THIN AIR

Alumna Harvests Water from the Atmosphere to Help Water-Scarce Parts of Africa

TRENT Magazine chats with **Anastasia Kaschenko '12** (Environmental Studies)

Anastasia Kaschenko is the chief technical officer and co-founder of Majik Water, a start-up currently creating new sources of affordable, clean drinking water for communities in Kenya and South Africa. Making use of technology that harvests moisture from the air, the company is aiding individuals and communities, but they're also partnering with some of the world's largest businesses to lessen industrial water consumption in areas most affected by shortages.

TRENT Magazine/The Trent Voices podcast caught up with Ms. Kaschenko in Australia. This interview has been edited for brevity and clarity. You can listen to the whole conversation at trentmagazine.ca/category/podcasts

Trent Magazine (TM): Tell us a bit about issues surrounding access to drinking water in Kenya.

Anastasia Kaschenko (AK): Africa, as a continent, is really diverse. Kenya, specifically, has a geography where much of it is quite dry. Those arid regions present tricky situations when there's also a drought. Not only is there little accessible water—unlike what we're used to in Canada, with our lakes or rivers—but there's also minimal precipitation during drought.

Drought conditions occurred about a year ago in Nairobi. It's the city with the highest population, the capital. Many people were living without running water, which caused a multitude of issues. But it's a city, and you can get around some issues by purchasing water, if you have the money to do so.

When you start moving out of Nairobi, into the countryside, into the rural areas of Kenya where about half of the country lives, it becomes trickier. What ends up happening is that

disease rates that are caused by water contamination skyrocket. And when people are more likely to get sick, that results in more school hours missed for kids, more work hours missed for adults, and, overall, just a massive hit across every part of a person's life.

As for numbers, 48% of Kenyans, on average, live with water scarcity—meaning that there's not a reliable source of clean drinking water that comes out of their tap, or out of a borehole near their house. And it doesn't really matter if you are high-income or low-income, whether you live in the city or the country, it's going to affect you.

I'll give you a personal example of this. My first time to Kenya, a couple of months after we had founded Majik Water, I contracted cholera, which is a really common water-borne illness. I was able to get treatment, no problem. But I had the privileged position of

“...the UN estimates that, by 2025, almost two billion people will be living in water scarcity. That’s six years away.”

being a traveler and having access to the healthcare in the city. If that same situation happens to someone in a rural community, it can very quickly become a critical situation—many cholera deaths are from dehydration.

TM: Water quality and quantity issues are rapidly spreading across the planet. We have places in Canada where there’s still no access to potable water—on reserves, for instance—and we’re one of the most water abundant nations on the planet. What’s your assessment of the global situation?

AK: It’s good that you brought it back to North America, because we founded Majik Water in California. For one of the most affluent states in the US, just south of our border in Canada, Californians are making headlines because of their water issues. They’re needing to ration their water, as their usual sources—dammed sources of water—dry up because of overuse and increasing climate change-induced weather conditions. Less rain means more drought, while periods of rain that are really intense can’t get soaked up to recharge ground aquifers. This is

happening around the world, and certain areas are being affected at the extreme end of that spectrum. So California’s a great example close to home.

Majik Water does work in Cape Town. And their issues have probably graced headlines in Peterborough. Cape Town faces Day Zero, where they will potentially run out of water. On an even bigger scale, when we look at the global water scarcity issue, the UN estimates that, by 2025, almost two billion people will be living in water scarcity. That’s six years away. When we started doing this, that was eight years away. It’s something that we need to keep fresh in our minds. We can’t lose sight of the global reality of how we use our water, how many more people are being brought into this world, and how those resources are depleting while our populations are increasing.

Unfortunately, a lot of the 1.8 billion that are purported to be affected by water scarcity will be spread across geographies that don’t have that water infrastructure that we’re used to in Canada; or,

they will have governments that won’t necessarily have the resources to respond. And there aren’t easy fixes. When Cape Town had its Day Zero looming last year, the solution wasn’t the building of new infrastructure, digging up huge holes, putting in new pipes, putting in de-salination plants. It was reducing water use. Technology is amazing, and that’s definitely the arena that we operate in, but it’s not the easy answer. Reduction will always be the number one most powerful solution. And we definitely want to put that out there as well.

TM: Alongside reduction and education, we do have technology that can help at the individual level. And, at Majik Water, you are aiming to introduce tech that makes accessing water a lot easier. Tell us about what you’ve been introducing.

AK: In a sentence, we are harvesting drinking water from air. Now, what the heck does that mean? To start with, you need to know that there is six times more water in the atmosphere than in all of the rivers in the world combined. So it is a massive, untapped

1 JUNE 2017

The Theewaterskloof Dam, a major supplier of water to Cape Town, South Africa, is at 10% of its capacity, causing authorities to declare a state of emergency.

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source of water that we are now just, collectively, learning how to harness. And that's exactly what we're doing. What you'll find if you start looking into atmospheric water generation, or air-to-water, is that about 90% of this very early emerging industry uses what's called condensation. Imagine a cold glass of water on a hot day, and the beads of water around the glass that are starting to form. That's basically condensation in a nutshell.

Now if you hit hot humid air against a cool surface, the water condenses, and you can collect it. But doing that at high volumes requires a lot of energy. And using a lot of energy results in a very high cost. Which means that this type of technology really isn't accessible to many of the people living in regions without water right now.

So we looked at desiccants as an alternative. If you've ever bought a pair of new sneakers, you've probably found a little packet of silica gel in there, with clear little balls. Now, what those little silica gel balls are doing is keeping your shoes dry by absorbing the humidity in the air. That same

principle holds true when you have a larger quantity of desiccants, such as silica—it absorbs moisture from the atmosphere. And when you heat it, it will release that moisture as water vapour. You can then collect that, just as you would condensation. And, there you go! You've produced water.

TM: What does the operating machine look like? What would this look like if it was in a village in Kenya?

AK: I guess I can speak best from our own prototyping. One of our prototypes looked like a big barbecue with a solar-thermal component on top, which we were testing in order to cut the energy cost by going from heat to heat, instead of heat to electricity to heat, if that makes sense. We had a parabolic solar concentrator, which looks like a trough, that was collecting the solar energy, concentrating it, and then heating up trays of silica gel that were changed manually. That design isn't necessarily feasible, or most sensible for users. But they can come in a variety of shapes and sizes.

Our latest prototype looks like a slanted glass box, facing the sun. And you actually see the water being generated and clinging to the glass and running down. It's something that can be installed in the back of someone's house or out in a field. It has a greater ease of use.

But, again, it's an evolving design. We've considered everything from portable backpacks to systems that can be incorporated into agriculture.

TM: Right now, you've moved into a phase where you are busier rolling out the tech than building the tech. Tell us a bit about how Majik Water is trying to get this technology into as many hands as possible.

AK: Right now, we're working with a couple of major corporate clients. In the last year we've developed relationships that have resulted in some really exciting deployments. One of our partners is Anheuser-Busch InBev, the world's largest brewery. In Canada they would be known for making Corona or Budweiser, which are great products.

22 JANUARY 2018

Theewaterskloof Dam, Cape Town's main water supply, is running dry as "Day Zero" approaches for the city.
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Majik Water's Chief Technical Officer Anastasia Kaschenko and Chief Executive Officer Beth Koigi in front of their second "dark horse" prototype in Nairobi at the 2018 American Society of Mechanical Engineers Innovation Showcase.

But the reality is that the ratio of water needed to make one beer is massive. I don't know the exact number, but we can safely say it takes six litres of water to make one litre of beer.

As a company that is becoming more conscious of its social license and its impact on the resources it requires (i.e., water), Anheuser-Busch InBev has been pouring lots of resources, including investment, into solutions for the communities it operates in (such as Cape Town, or other African cities). In order to offset that water footprint, they have partnered with us to deploy solutions in those communities for drinking water. For us, that means a number of partnerships in our technical ecosystem, in places ranging from Denmark to, locally, Nairobi. We also have partnerships in our business development ecosystem, including one

in Cape Town, which we work with to develop aspects of the technology; and also to deploy together. We are currently working with a partner in Cape Town, deploying atmospheric water generators (air-to-water machines) that produce upwards of a thousand litres of water per day. And that's underway right now in South Africa.

TM: When you've got something that is generating a thousand litres per day, is that meant to be shared by a neighbourhood? By a village? How does that work?

AK: There's a number of ways to do it, and that's really a major part of our role: not just sorting out the technology, but also the deployment models. It really depends on where you are.

Beaufort West in South Africa, for instance—a city the size of Lakefield, Ontario—have run out of water completely. That means they've run through their dam, as the backup resource, and there's been a drought, so there is no incoming water. They're considering plugging in a farm of air-to-water devices to create a micro-utility to serve their municipality. It could be a model similar to that. It could be smaller-scale: a kiosk where people currently buy water, but will eventually go and fill their own jerry cans or canteens with atmospheric water (which is the World Health Organization standard of purity). There are a number of ways to fit into the existing behaviour of the community and make it easy.

TM: Trent's a very recent memory for you. Tell me how your Trent experience is impacting the work you do now.

AK: I'm really happy you asked this question, because none of this would have happened without Trent. Professor Stephen Hill was always making sure that we were taking opportunities; he pushed us to always look beyond the scope of Trent. He nominated me for the Canadian Youth Environmental Leadership Scholarship and I was one of two Canadians to receive it, which was completely humbling for me. While receiving the award at the Globe Conference in Vancouver, I met a really amazing entrepreneur, Apoorv Sinha. I ended up working with him and joining his team, which led to me moving to California, living at NASA and working with Singularity University. That's where I met Beth and Clare, the foundation of Majik Water. And it all started from an award I was nominated for at Trent. Those connections would never have been made otherwise.

It's an example of seeing pieces that don't make sense at the time falling together in very interesting ways, which happen if you keep your eyes open and see experiences as opportunities. At the time, of course, I could never have known I would end up where I am. But that's the benefit of having mentors in your life—ones that have a bigger vision and can guide you towards things that are really good for you and your life. Trent has played an immense role in that.

TM: What advice do you have for students and young alumni?

AK: One of the biggest challenges and lessons has been what I call my "scope of control." In short: "Cross that bridge when you get there."

For many people, when they graduate university, or are in their 20s, there is information overload. It comes via social media or the internet. The amount of choices that seem to be out there is almost crippling. And so people can experience a sort of stand-still, or feel like they're paralyzed because there's this paradox of choice. They wonder what they could possibly do, or what impact they could possibly have.

For me, I think it is important to look to the immediate. Draw a circle around you and your community, and look at what you can do there—what you can do in your personal life at that stage or time. Because, while it's good to dream big, it's also important to focus on immediate next steps. I think this helps block out anxiety, or thoughts that overwhelm. That's what I mean when I say, "cross that bridge when you get there." Yes, things can happen in the



Cleantech Commons Key Part of Peterborough's No. 1 Ranking for Watertech Start-Ups

Water Canada Magazine lists Peterborough as best place in Ontario for watertech start-ups to set up shop

With Trent University's Cleantech Commons set to become Canada's premier clean-technology research and innovation destination, it should be no surprise that Peterborough has been ranked as the number one city in Ontario for watertech start-ups to thrive.

Water Canada Magazine released the ranking in its fall edition and also listed Peterborough as the number two site across Canada, second only to Sherbrooke, Quebec. One of the reasons for Peterborough's high ranking is Cleantech Commons at Trent University, which will host companies and start-up enterprises in the fields of clean technology, agro-biotechnology, water treatment and advanced materials.

Watertech companies can tap into Trent's large source of market-ready graduates, world-class infrastructure—including the most comprehensive mass spectrometry facility in Canada—as well as more than \$70 million worth of equipment.

Other Peterborough resources that make this city number one includes VentureNorth, the Innovation Cluster, Peterborough Region Angel Network, Fleming College's Centre for Advancement of Water and Wastewater Technologies and the Peterborough and the Kawartha Economic Development.

For companies who invest here, there's a proven track-record of success. Previous cleantech companies that have thrived in Peterborough and area include Aclarus, which uses ozone to make water safe and clean; Noblegen, an advanced ingredients company that produces unique proteins, oils and flours; and Rainmaker Worldwide, which uses innovative technology to provide safe drinking water across the globe.

Learn more about Cleantech Commons at trentu.ca/cleantechcommons



Collecting natural spring water with five-litre plastic water bottle at Newlands natural spring in Cape Town, South Africa. Shutterstock.com_Mark Fisher

future, but that's over there. We also need to focus on what we're doing in the present. Incremental steps.

That's how we've gotten to where we are with Majik Water. It's been incredibly overwhelming—with the press, with expectations, with working with massive corporations. But you can't let yourself go too far. You won't be able to deliver well on what it is you're doing right now if you keep getting distracted and stressed out by possibilities of the future, or things that are beyond your control. So, for me, it's about starting small and doing that really well, and then keeping your eyes on the immediate next step. So cross those bridges when you get there. You don't need to worry about things that haven't happened yet. I don't really know if that's considered advice, but if I'm being honest, that is my kind of personal realization.

TM: It must be exciting to cross bridges with people you admire. Tell me a bit about your team, and how it feels to be working with these particular people, making change.

AK: This is my favourite question of the day, because our team is everything. I have two cofounders: Beth Koigi, who is Kenyan, and Clare Sewell, who is British. We met in California, which is the cause for the question we get most frequently asked: "How the heck did you guys come together from three continents?" We met there, in Silicon Valley, and they are incredible. I've learned more from them than any other part of this experience.

They are both my seniors in age and also in experience. Beth ran her own water filtration company for five years in Kenya, very successfully. She has deep knowledge and expertise when it comes to Kenya. Clare worked in London for 10 years in management

consulting and strategy. She went to Oxford for finance, so she has that strong backbone of understanding for how a business needs to run in order to work. She keeps us in line when we may want to do things that are infeasible or would take us off track.

We have a really good synergy and balance. Some of the biggest challenges have been personal ones in terms of coming together so quickly. We were strangers in June and we had a company by September. So the reality of that is that real life happens on the side. But the most beautiful and amazing things have happened. We can hardly believe it. But it has been a result exclusively of three women coming together and working together. We have a wider team as well, and they're also an amazing support. And, of course, our partners in South Africa are our backbone.

For us, team is everything.



Lines of people waiting to collect natural spring water for drinking in the drought in Cape Town, South Africa. Shutterstock.com_Mark Fisher

THE TRENT UNIVERSITY WATER QUALITY CENTRE

The Water Quality Centre (WQC) is the most comprehensive mass spectrometry facility in Canada, possibly in North America. Instruments in the Centre are used to measure concentrations and abundances of atoms, elements and/or compounds by measuring the mass to charge (+ or -) values of ions. We can determine very, very low levels of elements such as mercury, lead, zinc, cadmium, copper, nickel in water and other environmental media, such as soils, sediments, aquatic biota (fish, algae, insects, mussels), etc. We also undertake product identification and quantitation of organic compounds, for example, pharmaceuticals, personal care products and other emerging contaminants (e.g., ibuprofen, acetaminophen, caffeine, triclosan, estrogens, etc.).

The instruments in the Centre are used by researchers—staff, faculty, graduate students and even undergraduate students—associated with many departments at Trent, i.e., School of the Environment, Chemistry, Physics, Biology, Anthropology, Environmental & Life Sciences.

Our analyses include:

- compound specific isotope analyses
- stable isotopes (e.g., C/N, 18O/16O, Mg, Si, Fe, Zn, Hg, U) and radiogenic (e.g., Sr, Pb, Nd) isotope ratios
- single particle analysis
- metal(oid) speciation (e.g., Se, As, Cr)
- emerging contaminants (e.g., pharmaceuticals, personal care products)
- volatile fatty acids (VFAs)
- total Hg (no sample preparation required for solids)
- methyl-Hg
- transition metal scans
- determination of low concentrations (ppt or ppq) of most metals
- P, S, Ca, Mg, Na, K analyses

Don't be fooled by our name!

Biological material (food products, plants, invertebrates, bird eggs and feathers, fur), sediments, soils, fly ash, municipal wastewaters, industrial by-products and process waters, also can be analyzed.

We have expanded!

We outgrew our first lab and expanded into a second lab. The original lab now houses our ICP-MSs including: a Varian 820, Thermo XSeries, Agilent 8800, Nu Attom, Nu Plasma 2 and Nu Plasma 1700 in addition to a Teledyne Leeman Prodigy ICP-OES. The second lab, located just down the hall, houses our "organic" MSs including: an AB Sciex Q-Trap 5500, Thermo Orbitrap Q-Exactive, Bruker SolarixXR FTICR (the first in Canada), Isoprime CF-IRMS (for delta C/N analysis) and a Nu Horizon (for compound specific IR analysis).

Research areas at the Centre include:

- cycling of trace metals (e.g., uranium) in lakes and catchments
- source partitioning of mercury input into lakes
- new methods to measure radioactive elements at ambient levels
- the release of pharmaceuticals from waste treatment facilities
- analysis of proteomes
- metal(oid) speciation analysis
- isotope ratio determination
- lake ecosystem nanosilver project (LENS)
- metabolites of ash trees attacked by the Emerald Ash Borer
- binding of ligands to proteins
- identifying and quantifying plant hormones (e.g., cytokinins)

In total, researchers at the Water Quality Centre have been successful in winning nine major Canada Foundation for Innovation (CFI) awards.



For additional information including news and events, facilities, contact info and more, please visit trentu.ca/wqc

GOING WITH THE FLOW: A LIFETIME INTEREST IN OUR WATER SOURCES

ALUMNI PROFILE:

Andrew Burton '07

(M.Sc., Watershed Ecosystems)

"The day I handed in my undergraduate thesis, I moved to Peterborough, and then a few days later I found myself in Europe. I'd never ever been outside of North America, I'd hardly even been on a plane before, and there I was in a foreign country.

You can imagine the logistical nightmare, planning and organizing and sampling in a country you've never been in before—and then hiking some of the highest elevation mountains in the country. These hikes ranged from an hour to four hours, just to get up to the lake location. We'd spend about half an hour to an hour collecting water samples and doing testing, and then it was back down to the bottom, to the car, and then off to another mountain and back up again. Over roughly 36 days, we sampled something like 87 lakes across the country.

Initially the plan was to stay in a tent, so we were camping and cooking our own meals. But even though it was May and June, it was pretty cold and constantly raining. Every day we were soaked. We'd go back to the tent soaked. We'd get up in the morning and have to put dry socks into soaking-wet boots. Eventually we just found that we could never get our clothes dry, and that we were drenched all the time. Because Ireland's weather is so unpredictable, you can have all four seasons within a single day. High winds, especially at the top of those mountains. Pounding rain. Fog so thick that we couldn't see much more than a couple meters in front of our faces. And there are cliffs! It was wild, to be honest—it was totally wild, and I absolutely loved it."

Andrew Burton is a senior water quality specialist with over nine years of professional experience in environmental consulting, scientific research and government, specializing in the fields of

atmospheric, terrestrial and aquatic chemistry. His areas of expertise include water quality, watershed management, eutrophication, fate of trace metals, atmospheric pollution, ecosystem acidification, environmental impact assessment, soil genesis and classification, and soil biogeochemistry. Upon completing his M.Sc., Andrew was awarded a one-year internship with Environment Canada. Under the supervision of Dr. Julian Aherne, Andrew investigated the impacts of pollutants on semi-natural systems in Canada and the Republic of Ireland. Since 2016, Andrew has worked as a senior water quality specialist for the Government of Manitoba, providing technical expertise to deliver province-wide environmental programs related to the development of water quality standards, objectives and guidelines. In addition, Andrew is Manitoba's representative on the Canadian Council of Ministers of the Environment Guidelines Project Team.

For Andrew's full story, please visit trentmagazine.ca



EXCERPTED FROM

A NOISE DOWNSTAIRS

By Linwood Barclay '73 (B.A. English)

Alumnus **Linwood Barclay '73**, is a *New York Times* bestselling author with nearly 20 novels to his credit. His books have been translated into more than two dozen languages and sold millions of copies worldwide. His latest, *A Noise Downstairs*, is a haunting psychological thriller and guaranteed page-turner.

College professor Paul Davis is a normal guy with a normal life. Until, driving along a deserted road late one night, he surprises a murderer disposing of a couple of bodies. That's when Paul's "normal" existence is turned upside down. After nearly losing his own life in that encounter, he finds himself battling PTSD, depression, and severe problems at work. During the days, therapy helps. But at night, he hears noises that no one else can. That nobody believes. Sometimes he thinks someone is in the house. Other times, the sounds are far stranger. Either he's losing his mind—or someone wants him to think he is. Or maybe something even darker is waiting downstairs...

Prologue

Driving along the Post Road late that early October night, Paul Davis was pretty sure the car driving erratically in front of him belonged to his colleague Kenneth Hoffman. The ancient, dark blue Volvo station wagon was a fixture around West Haven College, a cliché on wheels of what a stereotypical professor drove.

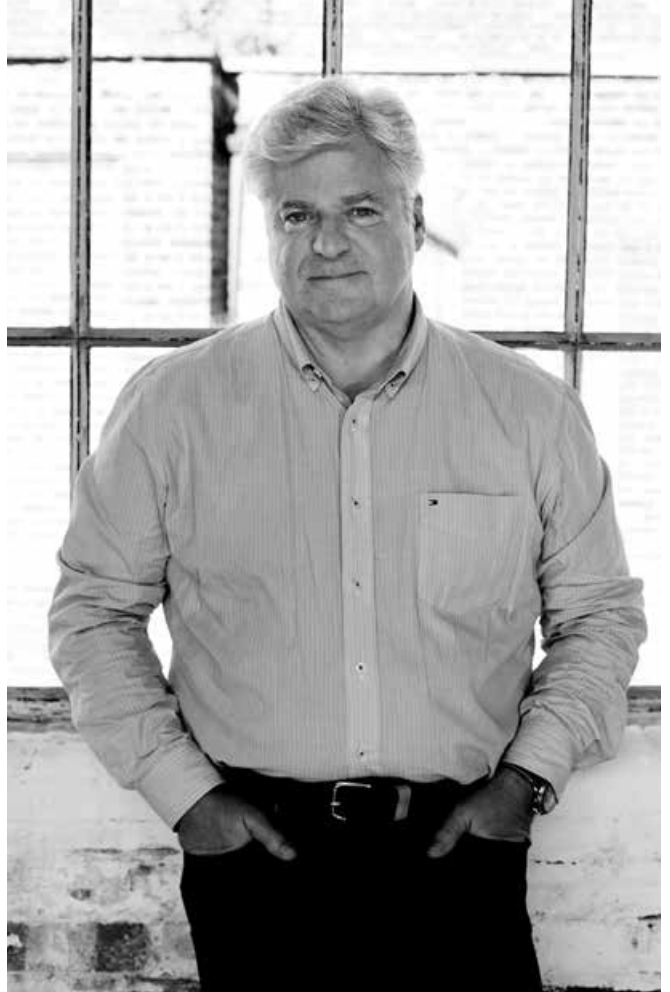
It was just after eleven, and Paul wondered whether Kenneth—always Kenneth, never Ken—knew his left taillight was cracked, white light bleeding through the red plastic lens. Hadn't he mentioned something the other day, about someone backing into him in the faculty parking lot and not leaving a note under the windshield wiper?

A busted taillight was the kind of thing that undoubtedly would annoy Kenneth. The car's lack of back-end symmetry, the automotive equivalent of an unbalanced equation, would definitely irk Kenneth, a math and physics professor.

The way the Volvo was straying toward the center line, then jerking suddenly back into its own lane, worried Paul that something might be wrong with Kenneth. Was he nodding off at the wheel, then waking up to find himself headed for the opposite shoulder? Was he coming home from someplace where he'd had too much to drink?

If Paul were a cop, he'd hit the lights, whoop the siren, pull him over.

But Paul was not a cop, and Kenneth was not some random motorist. He was a colleague. No, more than



that. Kenneth was a friend. A mentor. Paul didn't have a set of lights atop his car, or a siren. But maybe he could, somehow, pull Kenneth over. Get his attention. Get him to stop long enough for Paul to make sure he was fit to drive. And if he wasn't, give him a lift home.

It was the least Paul could do. Even if Kenneth wasn't the close friend he once was.

When Paul first arrived at West Haven, Kenneth had taken an almost fatherly interest in him. They'd discovered, at a faculty meet and greet, that they had a shared, and not particularly cerebral, interest. They loved 1950s science fiction movies. *Forbidden Planet*, *Destination Moon*, *Earth vs. the Flying Saucers*, *The Day the Earth Stood Still*. *The Attack of the 50 Foot Woman*, they agreed, was nothing short of a masterpiece. Once they'd bonded over the geekiest of subjects, Kenneth offered Paul a West Haven crash course.

The politics of academia would come over time, but what a new guy really needed to know was how to get a good parking spot. Who was the person to connect with in payroll if they screwed up your monthly deposit? What day did you avoid the dining hall? (Tuesday, as it turned out. Liver.)

Paul came to realize, over the coming years, he was something of an exception for Kenneth. The man was more likely to offer his orientation services to new female hires, and from what Paul heard, it was more intensive.

There were a lot of sides to Kenneth, and Paul still wasn't sure he knew all of them.

But whatever his misgivings about Kenneth, they weren't enough to let the man drive his station wagon into the ditch and kill himself. And it would be just himself. As far as Paul could see, there was no one in the passenger seat next to Kenneth.

The car had traveled nearly a mile now without drifting into the other lane, so maybe, Paul thought, Kenneth had things under control. But there was an element of distraction to the man's driving. He'd be doing the speed limit, then the brake lights would flash—including the busted one—and the car would slow. But then, it would pick up speed. A quarter mile later, it would slow again. Kenneth appeared to be making frequent glances to the right, as though hunting for a house number.

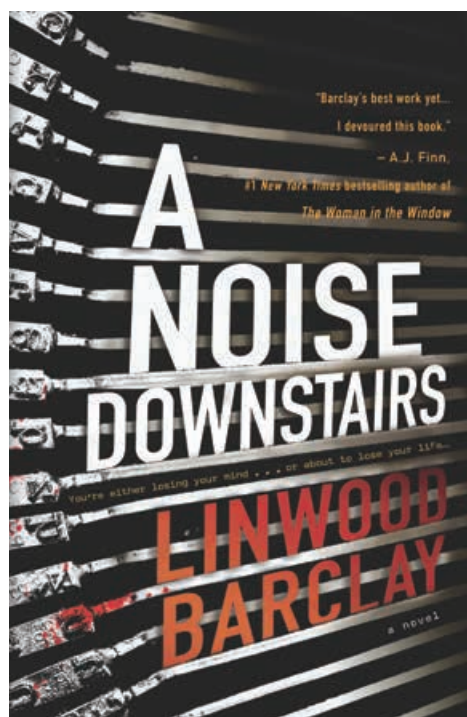
It was an odd area to be looking for one. There were no houses. This stretch of the Post Road was almost entirely commercial.

What was Kenneth up to, exactly? Not that driving around Milford an hour before midnight had to mean someone was up to something. After all, Paul was out on the road, too, and if he'd gone straight home after attending a student theatrical production at West Haven he'd be there by now. But here he was, driving aimlessly, thinking. About Charlotte.

He'd invited her to come along. Although Paul was not involved in the production, several of his students were, and he felt obliged to be supportive. Charlotte, a real estate agent, begged off. She had a house to show that evening. And frankly, waiting while a prospective buyer checked the number of bedrooms held the promise of more excitement than waiting for Godot.

Even if his wife hadn't had to work, Paul would have been surprised if she'd joined him. Lately, they'd been more like roommates who shared a space rather than partners who shared a life. Charlotte was distant, preoccupied. It's just work, she'd say, when he tried to figure out what might be troubling her. Could it be Josh, he wondered? Did she resent it when his son came for the weekend? No, that couldn't be it. She liked Josh, had gone out of her way to make him feel welcome and—Hello.

Kenneth had his blinker on. He steered the Volvo wagon into an industrial park that ran at right angles to the main road. A long row of businesses, every



one of them no doubt closed for the last five hours or more. If Kenneth was impaired, or sleepy, he might still have enough sense to get off the road and sleep it off. Maybe he was going to use his phone. Call a taxi. Either way, Paul was thinking it was less urgent for him to intervene.

Still, Paul slowed and pulled over to the side of the road just beyond where Kenneth had turned in. The Volvo drove around to the back of the building, brake lights flashing. It stopped a few feet from a Dumpster.

Why go around the back? Paul wondered. What was Kenneth up to? He killed his headlights, turned off the engine, and watched.

In Paul's overactive imagination, the words drug deal came up in lights. But there was nothing in Kenneth's character to suggest such a thing.

And, in fact, Kenneth didn't appear to be meeting anyone. There was no other car, no suspicious person materializing out of the darkness. Kenneth got out, the dome light coming on inside. He slammed the door shut, circled around the back until he was at the front passenger door, and opened it. Kenneth bent over to pick up something.

Paul could not make out what it was. Dark—although everything looked pretty dark—and about the size of a computer printer, but irregularly shaped. Heavy, judging by the way Kenneth leaned back slightly for balance as he carried it the few steps over to the Dumpster. He raised the item over the lip and dropped it in.

"What the hell?" Paul said under his breath.

Kenneth closed the passenger-side door, went back around to the driver's side, and got in behind the wheel. Paul slunk down in his seat as the Volvo turned around and came back out onto the road. Kenneth drove right past him and continued in the same direction. Paul watched the Volvo's taillights recede into the distance.

He turned and looked to the Dumpster, torn between checking to see what Kenneth had tossed into it, and continuing to follow his friend. When he'd first spotted Kenneth, Paul had been worried about him. Now, add curious.

Whatever was in that Dumpster would, in all likelihood, still be there in a few hours.

Paul keyed the ignition, turned on his lights, and threw the car back into drive.

The Volvo was heading north out of Milford. Beyond the houses and grocery stores and countless other industrial parks and down winding country roads canopied by towering trees. At one point, they passed a police car parked on the shoulder, but they were both cruising along under the limit.

Paul began to wonder whether Kenneth had any real destination in mind. The Volvo's brake lights would flash as he neared a turnoff, but then the car would speed up until the next one. Kenneth, again, appeared to be looking for something.

Suddenly, it appeared Kenneth had found it.

The car pulled well off the pavement. The lights died. Paul, about a tenth of a mile back, could see no reason why Kenneth had stopped there. There was no driveway, no nearby home that Paul could make out.

Paul briefly considered driving right on by, but then thought, Fuck this cloak-and-dagger shit. I need to see if he's okay.

So Paul hit the blinker and edged his car onto the shoulder, coming to a stop behind the Volvo wagon just as Kenneth was getting out. His door was open, the car's interior bathed in weak light.

Kenneth froze. He had the look of an inmate heading for the wall, caught in the guard tower spotlight.

Paul quickly powered down his window and stuck his head out.

"Kenneth! It's me!"

Kenneth squinted.

"It's Paul! Paul Davis!"

It took a second for Kenneth to process that. Once he had, he walked briskly toward Paul's car, using his hand as a visor to shield his eyes from Paul's headlights. As Paul started to get out of the car, leaving the engine and headlights on, Kenneth shouted, "Jesus, Paul, what are you doing here?"

Paul didn't like the sound of his voice. Agitated, on edge. He met Kenneth halfway between the two cars. "I was pretty sure that was your car. Thought you might be having some trouble."

No need to mention he'd been following him for miles. "I'm fine, no problem," Kenneth said, clipping his words. He twitched oddly, as though he wanted to look back at his car but was forcing himself not to.

"Were you following me?" he asked.

"Not—no, not really," Paul said.

Kenneth saw something in the hesitation. "How long?"

"What?"

"How long were you following me?"

"I really wasn't—"

Paul stopped. Something in the back of the Volvo had caught his eye. Between the headlights of his car, and the Volvo's dome light, it was possible to see what looked like mounds of clear plastic sheeting bunched up above the bottom of the tailgate window.

"It's nothing," Kenneth said quickly.

"I didn't ask," Paul said, taking a step closer to the Volvo.

"Paul, get in your car and go home. I'm fine. Really."

Paul only then noticed the dark smudges on Kenneth's hands, splotches of something on his shirt and jeans.

"Jesus, are you hurt?"

"I'm okay."

"That looks like blood."

When Paul moved toward the Volvo, Kenneth grabbed for his arm, but Paul shook him off. Paul was a good 15 years younger than Kenneth, and regular matches in the college's squash courts had kept him in reasonably good shape.

Paul got to the tailgate and looked through the glass.

"Jesus fucking Christ!" he said, suddenly cupping his hand over his mouth. Paul thought he might be sick.

Kenneth, standing behind him, said, "Let...let me explain."

Paul took a step back, looked at Kenneth wide-eyed.

"How...who is... who are they?"



Shutterstock_Raggedstone

Kenneth struggled for words. "Paul—"

"Open it," Paul said.

"What?"

"Open it!" he said, pointing to the tailgate.

Kenneth moved in front of him and reached for the tailgate latch. Another interior light came on, affording an even better look at the two bodies running lengthwise, both wrapped in that plastic, heads to the tailgate, feet up against the back of the front seats. The rear seats had been folded down to accommodate them, as if they were sheets of plywood from Home Depot.

While their facial features were heavily distorted by the opaque wrapping, and the blood, it was clear enough that they were both female.

Adults. Two women.

Paul stared, stunned, his mouth open. His earlier feeling that he would be sick had been displaced by shock.

"I was looking for a place," Kenneth said calmly.

"A what?"

"I hadn't found a good spot yet. I'd been thinking in those woods there, before, well, before you came along."

Paul noticed, at that point, the shovel next to the body of the woman on the left.

"I'm going to turn off the car," Kenneth said. "It's not good for the environment."

Paul suspected Kenneth would hop in and make a run for it. With the tailgate open, if he floored it, the bodies might slide right out onto the shoulder. But Kenneth was true to his word. He leaned into the car, turned the key to the off position. The engine died.

Paul wondered who the two women could be. He felt numb, that this could not be happening.

A name came into his head. He didn't know why, exactly, but it did.

Charlotte.

Kenneth rejoined him at the back of the car. Did the man seem calmer? Was it relief at being caught? Paul gave him another look, but his eyes were drawn back to the bodies.

"Who are they?" Paul said, his voice shaking. "Tell me who they are." He couldn't look at them any longer, and turned away.

"I'm sorry about this," Kenneth said.

Paul turned. "You're sorry about—"

He saw the shovel Kenneth wielded, club-like, for no more than a tenth of a second before it connected with his skull.

Then everything went black.

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From left, PSB Wilson, Karen Sisson '78, Lee Hays '91, Tony Storey '71.

PSB WILSON 80TH BIRTHDAY EVENT CELEBRATING THE MAN WHO SHAPED TRENT UNIVERSITY ATHLETICS

Alumna Karen Sisson '78 Honoured with Tony Storey Alumni Service Award

Over 200 people gathered at the Trent Athletics Centre on Saturday, January 26, 2019 to celebrate and honour Paul Wilson, founding athletics director at Trent, for his 80th birthday. Hosted by former alumni director, **Tony Storey '71**, and alumna **Karen Sisson '78**, the event recognized the contributions of both Paul and Gillian Wilson to the Trent athletics community.

The event saw three esteemed alumni come together as part of a panel discussion titled Ideas that Change the World. The panel was hosted by current director of athletics and recreation, Deborah Bright-Brundle, and featured alumni **Jennifer Sipos '91**, **Julianna Stonehouse '09**, and **Caleb Smith '93**, who provided personal illustrations of the importance and enduring value of Mr. Wilson's leadership and influence.

"An incredibly heartwarming and memorable gathering. Both Gill and I were overwhelmed by the 200 guests in attendance, the speakers' warm and nostalgic comments, the organization of the program, and the musical contribution. The memories provided by so many alumni were just marvelous and I feel privileged to have known you all," said Mr. Wilson about the occasion. "Very many thanks to all who made such an occasion possible,

and for all the cards and messages both from those in attendance and from those of you who were unable to be present. We will always remember my 80th birthday."

The accomplishments of Mr. Wilson in his 36 years with Trent University were many. As the longest serving athletics director at any university at the time of his retirement, Mr. Wilson established varsity soccer, hockey, basketball, football, rugby and the squash program. Two years after he took his position as athletics director, 67% of students were participating in athletics. There is now a PSB Wilson Fund for athletics and recreation and a PSB Wilson Bursary Endowment Fund, which have both contributed hundreds of thousands of dollars back to the students of Trent University. Not only has he left a lasting legacy at Trent, he has made great contributions to university athletics across the province and to the Peterborough community, where he served on City Council, and through his continuous volunteer efforts.

Ms. Sisson was recognized with the Tony Storey Alumni Service Award at the event for her longstanding volunteer work at Trent. She has been involved in the Alumni Association and has supported the enrichment

of Athletics at Trent for more than 30 years. She has served as the association senate rep, an association councillor on alumni council, and was chair of the athletics advisory committee responsible for the creation of athletic student staff awards that recognize exemplary athletic student staff leadership and performance. Her most significant work has focused on fulfilling Mr. Wilson's "sport for all" vision. As co-captain of team Wilson, Ms. Sisson organized and led events and fundraising to establish the PSB Wilson Fund for Athletics when Mr. Wilson retired as director of Athletics, providing critical funding to acquire equipment and improve facilities and programs to maintain and advance Trent's high standards for athletics.

"One of the most wonderful aspects of the Trent University community is the people who dedicate their energy and love to making this place and the experience for students the best that it can be," noted **Lee Hays '91**, director of Alumni Engagement and Services. "Quite often, these individuals are volunteers who like to work quietly behind the scenes, strengthening relationships, securing donations, and moving projects forward. Karen Sisson is one of those unsung, quiet leaders."



TRENT GROWN

Alumnus and Former Board Member David Grand Provides an Insider's Look at the Newly Legalized Cannabis Industry and How it is Impacting Canada's Culture and Economy

David Grand '79 is the founder and CEO of Muskoka Grown, a top quality cannabis production facility, as well as a former member of the Trent University Board of Governors. Using the latest technologies, he is trying to create the gold standard of cannabis companies. Mr. Grand took *TRENT Magazine's* editor, Donald Fraser, on a guided tour of the facility and followed it up with a conversation that tackled the science,

economics, and social aspects of marijuana. This interview has been edited for brevity and clarity. You can listen to the whole conversation at trentmagazine.ca/category/podcasts

Trent Magazine (TM): We had the opportunity to tour your facility, and it is absolutely incredible. Tell us a bit about Muskoka Grown and the work you have been doing in Bracebridge.

David Grand: It's a 65,000-square-foot building located in Bracebridge. I started on this over five years ago. To say it's been a long, tenuous, frustrating, aggravating process would be quite accurate. Some days you're flying in the clouds, other days your stomach is down at your knees. It has not been an easy challenge at all. You're dealing with so many different facets. You're dealing with the regulatory side, through Health

Canada—and it took me almost three years to get through Health Canada, between standard operating procedures, zoning, approval from the town (whether it be the mayor, the OPP, or the fire department).... In the summer of 2016, I got my approval. We started construction in January of '17 and it has been a very amazing journey. Some days I wonder if I would do this again; other days I go, this has been amazing! Let's start over!

TM: It is a fascinating facility, with different grow rooms for different strains of cannabis. Tell us a bit about the strains that you're planning on growing, and what you've got to do to make sure that each one of these remains pure.

DG: Let's back up just for a quick second and talk about the building itself. I have co-founded a company down in the States as well, and through that, I got the opportunity to go into parts of California, a little bit of Oregon, and quite a bit of Colorado. So I got to see indoor grows as well as outdoor greenhouses. I quickly realized that no one really knew what they were doing and that it had always been done on a small scale.

I realized the thing that no one was doing properly—and hadn't figured out—was the HVAC system. The HVAC system is what sets this building apart from the rest of the competition. I really wanted to get an understanding of how to do it, where I could make sure I had the air circulating in the rooms to ensure that the plants were agitating, but at the same time, were getting a constant cooling, because the lights in the room are quite hot. So, we put in, essentially, a boiler system. We spent millions of dollars on this HVAC system.

This building will be probably north of \$20 million by the time I'm finished. So, \$275,300 per square foot.

The HVAC, as I said, is very important. Each room has its own HVAC air-handling system, meaning that there's no way that we can have any cross-contamination. The air in the room circulates 1.2 times a minute. We have the ability to exhaust the air from the room and bring in fresh air if we don't like it. We have the ability to add humidity, take humidity out, control the CO₂, everything under the sun. And this is what will allow us to grow a very high grade of cannabis.

Sales at Canadian cannabis stores in the two weeks after legalization totalled \$43 million.

– Statistics Canada

Then we found the right people. The gentleman in charge of my operation, Nick Anderson, has 20 years of experience. He was production manager at one of the other licensed producers. We met, shared the same visions, and formed a great partnership right from the first time I shook his hand. Between the two of us, we found the right consultants to make sure we didn't make the same mistakes that we saw others make.

And so to answer your question regarding the strains that we're growing: we've just cracked about 750 seeds. One of the things you always risk by bringing in other people's plant material is the danger of bringing in diseases, whether it be


powdery mildew, or bugs, or whatever the case may be. We made a very big decision early that we didn't want to do that.

The strains that we are cracking are high CBD, high THC, both sativa and indica, and hybrid. The majority are more on the CBD side and a little bit less on the THC, but with a lot of variety. Our goal on our first quarter is to have a number of different strains, appealing to the wide masses.

TM: The technology is increasing at an incredible rate. And so is the cannabis industry. What does cannabis mean to the economy in Canada, and in Ontario?

DG: It's interesting, people like to take shots at our prime minister, but I don't think that he's been given just reward for the way Canada is viewed across the world in regards to cannabis. Canadians have become the authority in cannabis. Some of the other licensed producers are selling to Germany or have joint ventures in Australia or Israel. There are people in Colombia that are now growing. This is an industry that is evolving very quickly. It's a very capital-intensive industry, so the barrier to entry is expensive, and it's always evolving.

We've created an awful lot of jobs in Bracebridge. We are at about 24 or 25 right now. If we hit our vision, with all the different things that I've got planned, we could be up to 100 jobs. Then you take in your electricians, your plumbers, your tradesmen, your security, your excavation group, the architects, the engineers, and the list goes on. I know we have eight hotel rooms in Bracebridge for groups that are working on the building. We've put an awful lot of money into Bracebridge—but Bracebridge has put



a lot of effort into us. So it's been a wonderful, wonderful partnership.

Back to Trudeau. Without him doing what he's done, small-town Ontario would not be doing what it's doing today—assuming they want a cultivation facility in their midst.

TM: Before it was illegal, no one wanted to talk openly about cannabis. Although the majority of the population had taken cannabis in some form or another within the last year, no one was talking about it. Do you think legalization will make it more socially acceptable?

DG: It is getting more socially acceptable. Now, at dinner parties, someone will pull out something and we'll smoke it. I don't smoke very often, for a variety of reasons, but once in a while I'll indulge. And I guess, since it's legal, I can say that. And yes, I did inhale. But acceptance will happen very quickly. Look at Constellation Brands, who have just had sunk in a few billion dollars into Canopy. Molson-Coors is now involved. We just saw the company that was Marlboro getting involved. It's big business. I read that, in ski country, in Aspen last winter, cannabis outsold, collectively, wine, spirits, and beer.

So alcohol producers—whether it be wine, spirits, or beer—are very, very concerned about where cannabis has the potential to go, which is evident by what we've seen from Constellation Brands or Molson-Coors or whoever it may be. And I expect that this is going to continue.

I listen to all these people who are talking about how the world's going to change because of cannabis: people are going to drive high, all these different things. You know, October 17th came and went, and the world has not changed.

TM: People constantly bring up the fact that cannabis isn't nearly as damaging to the body as alcohol. Now that there are ways of using cannabis without smoking (vaping, edibles, etc.), it's even less harmful. But are there societal or health concerns that we should be talking about?

DG: The reality is, smoking, drinking, and consuming cannabis... None of us should do it. But we do. The health effects of alcohol are not good, but it's still a regular part of our culture.

We're going to see cool product formulations coming to the general public. People who like their wine but don't like what it's doing to their midriffs, will be excited. What happens if I de-alcoholize the wine? Take all the calories out, dose it with some THC, so you have the same sort of high that you would get from wine, and you wake up in the morning without that bloated feeling, or without the calories, or the hangover. Same thing with beer. You're going to see a whole bunch of that.

TM: With conversation about legalization coming about only recently, I'm curious as to how someone finds himself the founder and CEO of a large cannabis production facility—one that is investing huge amounts of money in order to become the gold standard of the sector.

DG: I've always had a dream to move to Muskoka, and have looked at a whole bunch of different avenues. A friend I was doing business with told me about medical marijuana. And I thought: "Medical marijuana? You've got to be kidding me!" But that's when I started researching, with my iPad, lying in bed with my wife, saying, "Liz, this looks pretty cool!"

The more research I did, the more I got into it. I realized that the margins were really good; and that by investing, you can actually help people. It's something that's been around for thousands of years so there's already a market for it.

I eventually flew out to Colorado and spent a week with the Stanley brothers—Joel Stanley in particular—who were working with a little girl who suffered from frequent seizures. [Editor's note: The Stanley Brothers (Joel, Jesse, Jon, Jordan, Jared, Josh and Austin) gained international recognition for developing a high CBD/low THC strain of cannabis oil to successfully treat Charlotte Figi, a five-year-old pediatric epilepsy patient suffering from over 300 seizures a week]. I was introduced to her. It was one of those situations where you keep getting goose bumps and shivers, because you begin to understand how much these products saved this little girl. They were featured in a CNN special. In it, little Charlotte is sitting in the corner, and she's shaking. And her twin sister would be saying: "Don't die on me tonight!" Little babies! Even saying that gives me shivers.

I remember coming home and telling my wife that I had Charlotte in my arms, and I was playing with her. And my wife burst into tears because she thought this is such a really wonderful thing. So I started to see the potential. And realized it was something I really wanted to do.

So, off I went and did my own personal MBA in pot—figuring it out. Then I came to Muskoka, where we had some challenges at the beginning. But if I called Bracebridge Mayor Graydon Smith spectacular in terms of support, that would be an understatement. I got other people



to buy in. We've raised roughly \$25 million to date—quite a bit from Bracebridge. Bracebridge has definitely supported me. My trades have supported me. I hired Nick on operations, and Cheryl Bissonette, with her cannabis experience.

We're a very humble group. We know we don't know everything. But we've attracted the right people, and we've got the right support. The town is thrilled that we've come here, creating all these jobs; and on the other side, I'm just so thrilled that I've been accepted, and I've got people here who I don't have to micromanage, because I trust them that much. Some of the employees have got their own money invested, so it's become an inside joke: "Am I working for you? Or are you working for me? Or are we working together today?"

It's a feel-good story. I think, right now, we're 75% or 80% staffed by people from the District of Muskoka. About a month ago, we did a job fair. People lined up early. We probably saw about 250 people.

It's been a pretty amazing ride. But I'll tell you, without the town of Bracebridge, and the support I've received, and the people who've decided to trust me and join me, we'd never even be close to where we are today.

TM: You keep on returning to the importance of community. How did your time as part of the Trent community impact what you do today?

DG: That's a good question. Trent's humble. Trent's modest. Trent has a very wide cross-section of individuals from across the country and internationally. Trent has always been able to blend that together.

I think that Trent is just down-to-earth. I did a brief stint on the Board of Governors and I quite enjoyed seeing the inner workings of the University. I realized how thankless it is for the people who are working there. It's the old adage: if I keep running against the wall, I'm going to hurt my head a few times, but sooner or later I'll get through it. And then I'll go to the next wall. I think that sort of sums up how Trent has evolved. I think it also sort of sums up how I've evolved up here. Believe me, it's like I've hit my head, but seem to get through to the next wall, and I just keep on going.

I listen to all these people who are talking about how the world's going to change because of cannabis: people are going to drive high, all these different things. You know, October 17th came and went, and the world has not changed.

TM: What's next for David Grand?

DG: Well, I need to take a breath sooner or later, but you know...

We're going to put up another 40,000-square-foot processing building, and, in there, we'll do extraction, we'll do a lot of our packaging, whether it be in containers, pre-rolled joints, etc. I believe that cosmetics are going to have a very big impact, like the CBD we were talking about earlier, because it's antioxidant, anti-aging. We may brew beer there, we may do some wine, we may do some water—I have no idea just yet. But that'll be another five- or six-million-dollar expenditure.

We're also in the process of designing a 3,500-square-foot "experience centre," where people can learn about cannabis.

We want people to come in and be educated, and understand the positives and the negatives. You don't take a jar of edibles, for instance, and eat them all at once, even though they taste good. That would be like taking a bottle of tequila and chugging it; you're not going to do that either. I think at some point we will have alliances with some other companies, we may even merge. But, from my point of view, I just need to keep going slowly, keep picking away. I'll never remove myself from this industry; I put too much heart and soul into it. So, I have no idea what's next for me. Just keep on building, and avoiding all the shiny objects, because that takes your attention away.

My final comment would be two-pronged. One prong would be to the University, to really look at putting some courses together that are centred around cannabis, focusing on the chemical, biological, business or compliance aspects. You have to understand the employment possibilities. With us, we have quality assurance people—quality control people in this building at all points of time, swabbing the walls, swabbing the floors, checking everything to make sure we don't have any micro-organisms growing. We take air samples and water samples. There are careers out there for people in their 20s and 30s. I think it's exciting. I think we'll never see anything like it again. I have quite a few people in their 20s who I call my partners. And I'm quite jealous. I'd love to go back and be 25 years old and do it all over again in this industry. Because it's riveting.

POT COMES to CAMPUS

Universities and Cannabis Legalization: A Look at the Impact on Students

RUTH E. WALKER '03, RN, MN
Manager, Trent University Student
Health Services

The legalization of non-medical regulated cannabis in Canada has brought new perspectives and conversations for post-secondary campuses across the country, Trent University included. One of the things I appreciate about working as a health care professional at Trent is the University's commitment to harm-reduction approaches regarding student health and well-being.

Harm reduction is a concept that I first learned about during my own studies as an undergraduate Bachelor of Science in Nursing student. It is validating to see this concept applied on a regular basis in my nursing practice on this campus. The legalization of regulated and restricted cannabis is a public health and harm reduction approach that allows response to cannabis to be treated as a health issue rather than a legal one.¹ It also helps reduce potential shame or fear of expressing use by those seeking help.

As the name indicates, harm reduction is a philosophy where risk behaviours are acknowledged in a non-judgmental way, and various strategies are used to help reduce harmful impacts. Harm reduction respects personal choice, offers multiple degrees of risk-reducing actions and supports a person within their individual health position. It also acknowledges that some people may not be able to, or have a desire to, quit outright or change behaviour.¹ The legalization of cannabis aligns with these principles and creates opportunity for candid conversations about supporting the well-being of students who use cannabis. By acknowledging marijuana use, post-secondary institutions are better positioned to help students stay as safe as possible and to be well informed.

The 2016 Ontario cohort of the National College Health Assessment (NCHA) showed that 19% of Ontario post-secondary students self-reported cannabis use in the last 30 days, with 3% indicating daily use.² However, post-secondary students perceived their peers to be using cannabis much more commonly than they actually were. When asked about perceived use, students thought that 86% of all students had used cannabis in the last 30 days, and that 13% of students used cannabis daily. Marijuana legalization provides an opportunity to destigmatize marijuana use, and reduce judgments towards those seeking support to reduce or quit, but it also normalizes use. Post-secondary institutions will have a better sense of post-legalization perceptions and usage from results of the next National College Health Assessment study scheduled for this year.



The developmental stage of typically aged post-secondary students poses increased considerations for the conversation of legalized regulated cannabis use. Health literature is clear on the potential negative impact of cannabis use on brain development, and Canada's lower-risk cannabis use guidelines encourage delaying initiation.³ Brain development can continue up until the mid-20s and is still underway for a large number of post-secondary students. Some of the other known risks associated with cannabis use are increased mental health concerns and altered brain function,⁴ which are already of direct importance to the post-secondary population.

There is increasing recognition of mental health concerns of post-secondary students via provincial data, professional reports, and media coverage, with many contributing factors. Students have the added responsibilities of this transition life stage and demands of post-secondary academics, as well as the clinical consideration that mental health concerns often first appear between



Our aim is to help students maintain their well-being as they navigate and journey through their academic experience.

the ages of 18 and 24. While relief of anxiety is sometimes cited by people who use cannabis, it also has the ability to worsen mood or mental health concerns including anxiety.⁴ Marijuana use can also have short-term cognitive impacts such as drowsiness, worsening memory or memory changes.⁴ It goes without saying that drowsiness and challenges with memory can be counterintuitive to a student's optimal learning and maintenance of academics. Post-secondary students also are not immune to the other general risks such as respiratory concerns related to smoking combusted cannabis, negative social outcomes related to high frequency use, and impaired driving.

Despite these risks, people consume cannabis for various reasons including curiosity, personal enjoyment, relaxation, or social activity. Medical marijuana has been legal in Canada for a number of years and used in instances such as relief of pain, managing inflammation, and supporting physical comfort in the management of chronic illnesses.⁴

Yet, for students who use substances to cope with stress, it is important to acknowledge that when the "high" wears off, those stressors will still be there. In supporting students, building resilience and healthy coping strategies for long-term success is foundational.

In regards to Trent University's Student Health Services, registered nurses and physicians at the clinic provide individual health education and counselling regarding substance use embedded within related clinical appointments. Student Health Services also employs a small group of student

health promoters who facilitate events throughout the academic year, and cannabis is a planned topic this semester. Housing Services created and distributed a comprehensive campaign in September called "Let's Talk Cannabis" addressing risks and strategies for risk reduction. Residence dons were equipped with tools and guidance on how to facilitate conversations regarding cannabis use within their residence communities. The campaign will be promoted to the broader campus this semester.

As visible, trending and current issues arise, they provide timely opportunities to increase topic specific health-promoting communication for students. Regardless of the health subject at hand, the wellness services at Trent University help students make autonomous and informed choices about their health, and contribute to a campus environment that supports this.

Our aim is to help students maintain their well-being as they navigate and journey through their academic experience.

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27.4% of university-aged Canadians have used cannabis within the past 3 months.

– Statistics Canada, 2018



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THE CANNABIS ECONOMY IN FIRST NATIONS

Legalization and Sales in Aboriginal Communities

Adam Hopkins '03 (B.A. Indigenous Studies)

If you take a drive through many First Nations in southern, central, and eastern Ontario, you'll see an odd sight. Stores with names like "Smoke on the Water," the blasphemous "Peacemaker 420," the obvious "Medicine Wheel Natural Healing," and the uninspired "The Weed Store." It's here where entrepreneurial pot sellers and the Indigenous economy make a weird intersection.

One of the most high-profile examples of this can be found at the Tyendinaga Mohawk Territory (TMT), a large First Nation community on the Bay of Quinte. Over 50 pot shops are currently operating in the community. Openly selling recreational marijuana to both Indigenous and non-Indigenous people, the businesses remain open and largely unbothered by reserve, provincial or federal police. This is in direct contravention to provincial rules set in place after the legalization of pot this past fall.

So, why is it that these pot shops were not shut down after legalization and how did so many pop up in such a short time? The chief of Tyendinaga, R. Donald Maracle, is quoted as saying that since the local crown attorney has no interest in pursuing charges against the shop owners, they will remain

unbothered, at least for the time being. This ambiguity largely has to do with the right of First Nations to determine their own laws and governance practices, a legal obligation outlined in the Royal Proclamation of 1763, which has largely been ignored by successive Canadian lawmakers.



To the uninformed eye (i.e., the majority of Canadians, who are largely unfamiliar with how businesses operate on reserves), it may seem as though most of these entrepreneurs have invested little in their ventures—maybe a modular trailer and some retail infrastructure. However, like any other entrepreneur, these owners have put a lot on the line and are arguably facing greater hurdles than most opening a business off reserve, where bank loans are easier to come by. The risks associated with opening a new business like a pot shop are similar in

scope to any other new business. It requires drive, determination, creativity and grit to go out on your own and do something so out of the norm.

The potential income from one of these pot shops is staggering. It's said that some of these businesses can bring in anywhere from \$5,000 to as much as \$15,000 per day. With the legalization of recreational marijuana now behind us, the risks associated with opening a pot shop outside of the provincial system increases. But most of these entrepreneurs continue to stay open. The income generated has the potential to lift, not just the owners out of poverty, but if done right, entire communities. There is a lot on the line.

Many First Nation communities will soon be deciding their own approach on how to deal with pot shops that exist outside of the provincial system. Canadian municipalities have the ability to opt in or out of allowing pot shops in their jurisdiction. First Nations have the ability to set these rules, but will also have the added ability to tax or set fees. Upcoming local and regional plebiscites in Indigenous communities regarding the "pot economy" have the potential to affect the livelihood of Indigenous people for generations to come.

Furnishing a Sense of Place

Efforts to Maintain Trent's Furniture Heritage are a Passion for Students and Alumni

Trent University embodied Ron Thom's ideal of a *gesamtkunstwerk*, a "total work of art," in which the architect would design, commission or otherwise oversee each component of the building from the outside in, from the gardens to the ashtrays, including its original furniture, which quickly became famous. Thom and his team designed much of the furniture as beautiful built-in benches and millwork embedded within the actual building. He also created intricate standalone tables and stools, and specified highly sophisticated avant-garde chairs from internationally renowned designers.

The Ron Thom original furniture designs are deeply informed by the work of the great American architect Frank Lloyd Wright, whom Thom revered. Like Wright, Thom's ideal mode of furniture-making was not factory production but hand-crafted. He considered the quality and pattern of the woodgrain even when devising the most basic millwork for the University's service areas. His more prominent tables, for the dining hall and boardrooms and common areas, are crafted using different kinds of wood with beautifully detailed corners and undersides, often with intricate notches and joinery. His built-in furniture included not only wooden millwork but also concrete benches that seem to grow right out of the walls.

Thom also specified a top-notch selection of chairs by other designers, effectively creating a gallery highlighted by the world's top chair designers: Harry Bertoia, Michael Thonet, Eero Saarinen, Arne Jacobsen, Charles Eames, Bruno Mathsson, Alvar Aalto, Hans Wegner and Kaare Klint.

While some of Trent's furniture collection has gone missing, and

pieces may have travelled to new homes throughout the University, much of it is still intact.

"I think we're doing well in the furniture world," notes Professor Michael Eamon, Traill College Principal and Trent Heritage Committee co-chair. "Considering that this is a university and students have the habit of using furniture in a robust sort of way. So much of the original furniture was well-used, and that was the intent—that this would not be a museum, but in fact a living, breathing, functioning school, with inspirational furniture of all things."

Professor Eamon notes that, while some of the furniture has been lost or broken over the years, there are plenty of notable pieces to be found. "I'd say a good chunk of it still exists, and can be found, particularly in places that have

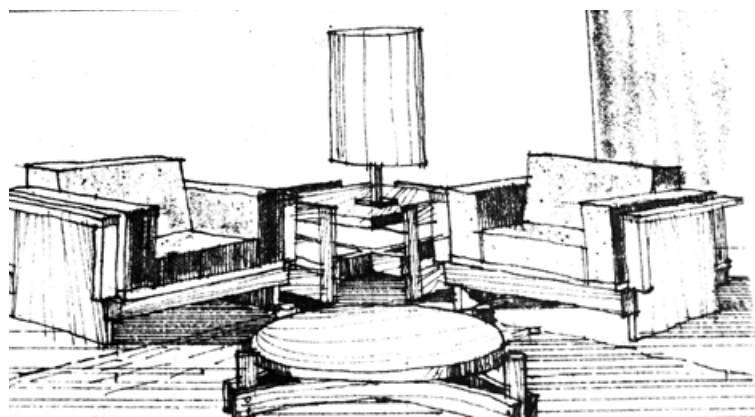
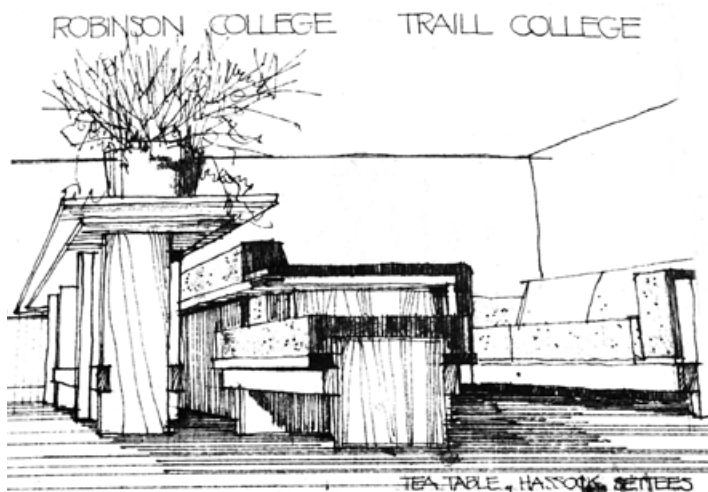
less volume—the Senior Common Rooms of Lady Eaton College, Alumni House, Traill, and indeed the SCR at Champlain, which is now the Seasoned Spoon, have wonderful collections left of the original furniture. Throughout professors' offices in the University, you'll probably find at least one chair or desk from that original time period, in those original precinct buildings. And then scattered through different colleges, particularly Traill. Traill probably has one of the highest concentrations of original furniture left. Not necessarily in the original positions. Furniture, you see, has a way of not only breaking, but also moving."

Trent's furniture remains an important part of the University's heritage plans.

"With Ron Thom and his colleagues holding a total design



Lola Edward-Ajayi



Sketches courtesy of Trent University Archives

philosophy, in the sense that you design not just the exterior of the building but the interiors, maintaining the furniture is hugely important," says Prof. Eamon. "Trent is a microcosm of what has happened in many heritage situations, in that there's a bit of a shadow, what I call the heritage pall. As is often the case, 50 years is around the mark where things are rough, where collections suffer. During the first 10 or 15 years of a university, or of any structure, things are new and fresh and the design continues. But as you hit about 20, 30 years, things start to get a little worn, and things break, and there's a sense that it's really not old enough to preserve and that you need to get something else in its place. That's what happened with Trent. At the 30- and 40-year marks, things started to break. And it wasn't Victorian furniture, it wasn't seen as worth preserving; and therefore, some of it was thrown out. Broken bits were sold off to professors. Other pieces were lost. As we hit the 50th anniversary mark, that shadow started to dissipate, and people were starting to realize the importance of our furniture. We realized that we needed to not only

preserve it but start to replace it in a sympathetic way."

Trent now has a heritage stewardship policy for the first time in the University's history. The policy looks at the exterior fabric of buildings and identifies our key, iconic buildings, but also looks at the furnishings and the interior elements, respecting Ron Thom's total design philosophy.

"We now have a limited number of chairs, tables, and other furnishings," notes Prof. Eamon. "We need to restore them and put them in the best element. And maybe we should start purchasing things in the style. The Bata Library renovation is a great example of the new heritage stewardship policy in action. Not only were many key Ron Thom pieces restored, but they purchased new furniture in the style—inspired by the original furniture—so you still have that mid-century modern feel. You have furniture that is more sympathetic."

Over the years, Trent has had several students (now alumni) who have gone out of their way to highlight the collection. In 2015, **Elsa Batten '10**, **Alex Watson '12**, **Jenna Pilgrim '12** and **Mark Hunt '12** made it their mission

to make the Trent student body aware of the chairs they are sitting on, and their relevance to Canadian heritage. While the "Trent Heritage Collection" furniture preservation project began as a fourth-year Business Administration project (ADMN-4101H: Thinking About Management), it became something the students rallied around.

Of the project, Mr. Hunt wrote: "It is important that Trent University recognizes its rich history and recognizes the founders' vision of what the school was meant to be when it was designed. My goal is to make sure that future students are able to enjoy Trent's unique atmosphere and to make sure that Trent does not lose its unique characteristics as it grows, and those characteristics that make it different from other universities in Ontario need to be protected. If we don't bring awareness to these issues Trent's historic roots may be lost and forgotten. We cannot sit back and let this happen."

Part of the project included doing a full inventory of Trent furniture. During the process, a silver sticker was placed on all of the pieces of Trent furniture that were a part of the



Furniture photos: Lola Edward-Ajayi



original collection. Going through the University, Jenna Pilgrim felt a sense of loss about the state of some parts of collection, but was excited about how complete others were.

"What's really cool is the completeness of different spaces. There are a lot of spaces at Trent that have been preserved. Like Alumni House. And Traill College has done a great job of bringing back a lot of their pieces. They have a couple of really interesting wingback chairs in the college office at Traill that are quite notable."

In March 2013 "Madmen on the Otonabee," a student-curated exhibit of the design behind the furniture of Trent architect Ron Thom, opened at ARTSPACE in Peterborough. The exhibit was curated by then fourth-year Business Administration student Richard Love as his legacy project, with a goal to raise awareness of the furniture designs of Ron Thom and their contribution to the collegiate system and social spaces of Trent University.

It's not just students that are passionate about Trent furniture.

Trent alumni hold a great amount of nostalgia for their time at Trent. And nothing builds nostalgia more than place: the buildings and the furniture in them. Trent was designed as a space to inspire and many alumni count the design elements of the University as among its greatest assets. As a result, many have wondered about how they can best ensure that historical furniture is maintained and protected.

"We have a heritage furniture fund that people can donate to which will make a big difference," says Prof. Eamon. "And it can make a big difference in how we move forward as an institution. We are now refurbishing all the dining halls at Trent University—and buying furniture is expensive. You can pay several hundred dollars for a new chair, or you can add a 20% premium, and get a new chair created by one of the original designers at Trent—or one that has the look and feel of that mid-century modern aspect.

Through alumni donations—or any donations to a fund like this—we can provide purchasers with that extra 20% to pay for the integrity and aesthetic, and the quality to make it last another

50 years. Why buy just any furniture when you can get the good stuff?"

There are, however, many ways to celebrate Trent's furniture legacy. Alumni are encouraged to spread the word about Trent's collection, photograph it whenever possible, share images on social media, or, for those who really appreciate design, spearhead ways of letting the inspirational furniture be seen.

"Donations are great," admits Prof. Eamon. "But having a symposium on the furniture would be great too. Or, less formally, if you have friends or relatives who are into design, why not bring them to Trent—during Head of the Trent, or any other event. Have discussions about art and design, and about how Trent got down that path. Get people as excited as you."

Your gift can ensure that the Trent you love and remember can be passed on to generations to come. For more information on Trent's heritage stewardship, including a full photo album of Ron Thom-era furnishings and information on how to support heritage efforts, please visit trentu.ca/heritage.

In 2015, the Seasoned Spoon, Trent's student-run cafe cooperative, was refurbished and renewed, with funds generously donated by the Dalglish Family Foundation.

"Ron Thom's work at Trent is a remarkable expression of mid-century modern design. We are pleased to help the university restore and showcase some of this Canadian legacy, and to encourage others to do the same," said Georgie Dalglish of the foundation.

Alumnus and craftsman **Rob Tuckerman '73** was engaged to research, refurbish, construct and source new and existing couches, tables, hassocks, chairs and light fixtures for the Seasoned Spoon, based on original drawings by Thom and his team. Innovative café table tops, featuring illustrations of original college designs and drawings, were showcased at a 2015 Doors Open event.



THE TRANSFORMED BATA LIBRARY

SHOWCASES TRENT'S THOUGHTFUL APPROACH TO STEWARDING ITS ICONIC ARCHITECTURE

"At a moment of architectural crisis, Trent University is retaining Canada's modern heritage."

ALEX BOZIKOVIC, *Globe and Mail*

Trent University's vision of a modern, state-of-the-art, connected university library came to life in fall 2018. Providing a highly-adaptive, interactive and collaborative environment, this central piece of the learning experience allows students to take command of their academic careers, with access to cutting-edge technology and knowledgeable staff in intellectually stimulating spaces. Like today's most contemporary libraries, the transformed Bata Library offers many diverse social and experiential opportunities with the aim of promoting community and a sense of belonging—one of the hallmarks of a Trent education. The enhanced library builds on this environment by allowing students to move seamlessly from collaborative engagement in class to collaborative study spaces in the library.

Trent's library of the future is also well-equipped to ensure Trent students, faculty and staff can meet evolving demands of technology and new models of educational

delivery. The new technological infrastructure allows users to search everything within and outside of Trent's resources at the same time—ensuring all materials can be accessed anytime, anywhere.

The transformation of the Bata Library paid particular attention to the unique history and design legacy of this significant architectural treasure. The library was renewed to ensure that it remains the intellectual hub of campus, while also offering a new space for students to learn and thrive. Aligning with Trent's statement of heritage stewardship, the redesign showcases Trent's approach to stewarding its iconic architecture.

"We believe in the lasting importance of Trent University's approach to university education, and we believe in the basic role of architecture in fulfilling the University's intentions. The University should be a place of aesthetic as well as intellectual excitement."

– From the brief to the master planning architect

FEATURES OF THE TRANSFORMED BATA LIBRARY

Entrepreneurship and Social Innovation Centre – a valuable site for social engagement in experiential learning, and development of new experiential learning projects and work placements for students

Three research centres – Trent Centre for Aging and Society, Indigenous Environmental Institute, and the Canadian Centre for Environmental Modelling in Chemistry

Data and Visualization Lab – part of the Maps, Data & Government Information Centre, it provides faculty and students with cutting edge tools including advanced computers, spatial and statistical software, and 3D and VR analysis and display technologies

Visualization Space and Creativity Lab – a state-of-the-art centre for innovative research and learning



Paul Odette '72

The Odette Critical Making Studio – encourages creative experimentation and provides access to technology and software in order to create physical and digital objects where knowledge and ideas are rendered into the material world

WHAT'S NEXT

Stewarding One of Canada's Most Striking Universities

Trent is a distinctly unique place where landscape meets learning and the brightest minds flourish. The Symons Campus is one of the best examples of the mid-century modern style in North America. As stewards of Trent University's architectural heritage, we are approaching preservation in a thoughtful and meaningful way. The breathtaking natural setting provides an environment that cultivates confidence and sparks innovation. It is a place where students can learn, thrive, connect and succeed, no matter what path their future holds.

Through thoughtful investment and donor support we have revitalized key elements of the campus such as the Bata Library, Alumni House, Seasoned Spoon restaurant and the Champlain trellises. These examples demonstrate how Trent stewards and honours its heritage, while also providing a framework for future projects. The transformed Bata Library is a shining example of what is possible when people come together to invest in stewarding this architectural masterpiece.

As we look forward, we must ensure that this precious national architectural legacy is renewed and honoured for the next generation of Trent students and the public to experience. With your help, Trent will continue to provide an environment where opportunity meets excellence, where nature meets modernism, and where personal education meets the minds of young people.

We are engaging others to help ensure that these heritage assets, sacred spaces and cultural resources are available for future generations to enjoy. We hope you will join us by investing in Trent University and stewarding one of Canada's most stunning architectural estates.

For more information visit trentu.ca/heritage or contact Lee Hays, director, Alumni Engagement & Services, leehays@trentu.ca, 705-748-1599.

Deborah Berrill Teaching Design Studio – to support faculty across all disciplines in learning about and implementing the most recent developments in higher education teaching practice



Design elements that promote environmental sustainability, including a **green wall**.



Christine Bata Schmidt
and Peter Schmidt

DONORS UNLEASH THE BATA LIBRARY

CHRISTINE BATA SCHMIDT

President's Circle Donor

THE BATA FAMILY FOUNDATION

The Bata Family is delighted to be part of a legacy started by my father in the early days of Trent. He would be very proud to see the wonderfully revitalized library and support the Entrepreneurship and Social Innovations Centre.

Entrepreneurship and Social Innovation were significant focuses in his life and continue to be for the Bata family.

trentu.ca/give



The President's Circle recognizes donors who have made contributions of between \$100,000 to \$249,999.

PHILANTHROPY in ACTION: FACULTY SPOTLIGHT

Roy L. Edwards Scholarship Fund Receives Substantial Donation from Joy Edwards

The Roy L. Edwards Scholarship Fund was established in 1988 in honour of Dr. Roy Edwards, a well-loved biology professor at Trent. In October of 2016, Joy Edwards, wife of the late Dr. Edwards, made a generous donation of an additional \$90,633 to the scholarship fund, which will have lasting positive effects on the Trent biology community.

The Roy L. Edwards Scholarship fund was traditionally awarded annually to one outstanding student entering their fourth year of studies in honours biology. With this additional donation, however, we are pleased to announce that the scholarship will now be awarded to two students, commencing in the 2018/2019 school year. This scholarship aims to support the development of young biologists, with the hope of promoting a lasting interest in freshwater and terrestrial ecology.

This year's recipients are Jennifer Larkin, a fourth-year Biology and Environmental Science student specializing in conservation, and Nicholas Nelson, a fourth-year Water Sciences student. Jennifer's work with Dr. Joanna Freeland looks at the effects of the herbicide Roundup on native and invasive wetland plants. Her future plans involve working with species-at-risk animals or herpetology, and perhaps returning to graduate work.

Mr. Nelson is currently working on a project studying dissolved organic carbon in two different land-use streams by observing dissolved organic matter from both the streams and the sources of the organic matter. He hopes to find a career within his field associated with hydroelectricity, aquatic habitation management, or in research, and possibly earn his master's degree.

Professor Roy Lawrence Edwards was a passionate member of not only Trent's Biology Department, but also the Trent community as a whole. One of the founding faculty members of the University and the first chair of the Biology Department, he served as the acting vice-president and provost in 1983 and Trent's acting president in 1984.

Perhaps the most significant contribution to the Trent biological community that Dr. Edwards made came through the acquisition of two research boats, which were dubbed the Trent University Research and Teaching Labs, or TURTLES, for the purpose of aquatic research. The TURTLE II gave Trent biology students a groundbreaking opportunity for hands-on research, and many went on to pursue careers in water biology as a result.

Dr. Edwards passed away on October 5, 2012 at the age of 90. He is remembered by his wife Joy Margaret Edwards, their three children, Rachael, Diana, and Sylvia, and by the many Trent students whose careers he impacted positively and those whose lives he continues to touch with this scholarship fund.



World Renowned Researcher and Former Trent Professor Dr. Alicja Zobel Establishes a Scholarship Fund to Help Students Share and Expand Their Knowledge and Advocacy



Dr. Alicja Zobel, former Trent professor, scientist and health advocate, continues to give back to the Trent community through the establishment of a scholarship fund.

Strength and resilience were instilled in Dr. Zobel from a young age, as the daughter of concentration camp survivors in Siberia during the war. Her passion for education stems from her mother, who believed that “education is freedom.” Dr. Zobel came to Canada from Poland with two young daughters in 1986 and took Canadian academia by storm.

Among Dr. Zobel’s numerous accolades include holding two patents for anti-cancer natural products as well as publication in more than 100 research journals in Canada, America, and Europe. In her role as advocate, she has worked tirelessly to attain food label warnings for trans fatty acids and to improve clean water protection legislation in both Poland and Canada.

While teaching at Trent until 2000, Dr. Zobel was recognized in *Maclean’s* magazine for being a favourite professor of her students. She reflects with pride on one her first international students from Ghana, **Dr. Hakeem Sam ’88** who is now a dermatologist. An advocate of critical thinking, Dr. Zobel encouraged students to always question their findings and professors and to be open to new ideas. Her

contributions to Trent were extended in 2017 through an award established by Dr. Zobel and her daughter, Dr. Gosia Zobel, who achieved a Ph.D. from UBC in Applied Animal Biology and also conducts research internationally.

The Dr. Alicja and Dr. Gosia Zobel Student Conference Fund allows Trent students to attend conferences in their field of study. It provides students with the opportunity to both share and expand their knowledge and advocacy, expose their thinking and research to a broad audience, develop their critical thinking skills by inviting challenges and networking with peers, advance their research skills and credibility, and to raise the profile of Trent University.

Through this fund, student recipients Lina Corda, Breighann Braine, and Kathleen Clarke were able to present their work at the 12th National Community Nurses of Canada Conference in Niagara Falls. Reflecting on their experience at the conference, they said “This generous grant allowed us to guide and inspire other healthcare practitioners to create culturally safe resources for marginalized populations. Dr. Zobel gave us the opportunity to continue to spread awareness and advocate for reproductive rights in Canada. This was a truly enriching experience that has enhanced our competence as nursing students and allowed us the opportunity to grow in our roles as advocates.”

Other recipients of this fund have represented Trent at conferences internationally in Peru and Michigan. Dr. Zobel’s generosity will continue to provide amazing educational opportunities to Trent students that extend well beyond the classroom.

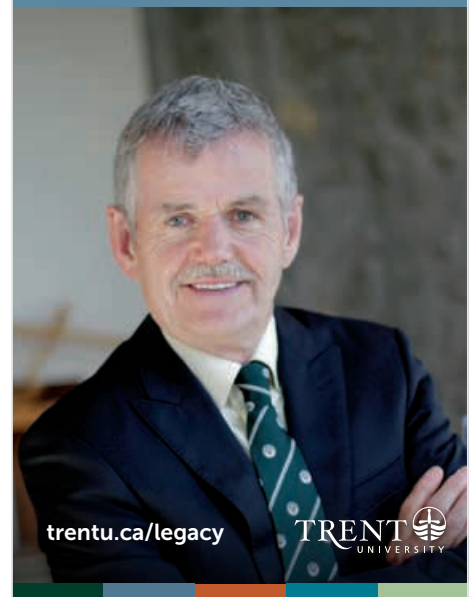
LEO GROARKE

Legacy Society

GRATEFUL TO SERVE AS PRESIDENT
PHILOSOPHER
FATHER
KAYAKER
IMMIGRANT

Remembering Trent in his will, Leo’s legacy will support critical thinking, the liberal arts, and a well-rounded education.

What will your legacy be?



trentu.ca/legacy

TRENT
UNIVERSITY

A NIGHT to REMEMBER

Lady Eaton College Celebrates 50 Years with Historic Founders Dinner

Founding President Dr. Tom Symons, principals, and students past and present gather to celebrate LEC

SYLVIA DICK '05



Years ago, on a cold winter's eve, the tables were set in Lady Eaton College's (LEC) brand new dining hall and students, faculty and staff were welcomed to the official opening of Trent University's second college. Half a century later, on Friday, January 18, 2019, 50 years to the day of the official opening, guests joined together for the Founders Dinner, a formal celebration of LEC's golden anniversary.

Over a menu inspired by the grand dining rooms of Lady Flora McCrae Eaton, guests shared memories of the past five decades and toasted to the five still to come.

Jonathan Pinto '06 served as master of ceremonies and welcomed founding president Dr. Tom Symons, current students, and past principals to speak on the occasion. LEC alumni spoke fondly about their time as students. **Susan Brown '68** offered a glimpse into the early years at Trent, when LEC was a women-only residence, and **Brandon Smith '04** described the sentiments of belonging, community engagement, and critical thinking that struck him

deeply as an LEC student. Mr. Smith was presented with the Alumni Young Leader Award by **Lee Hays '91**, director of Alumni Engagement & Services. The evening ended with the college principal, Dr. Christine Freeman-Roth, presiding over a traditional scarf ceremony.

"Whether you are drawn to the history and architecture, the beautiful setting nestled in the drumlin, or the people, Lady Eaton College is an inviting and inclusive space," said Principal Freeman-Roth.

The Founders Dinner was the capstone event of a year of celebrations, spanning September 2018 to April of this year. In September the college threw a 50th Birthday Bash for new student orientation, and students and alumni celebrated at the

Head of the Trent during an unveiling of a stunning painting by artist and LEC alumnus **Ryan Lamoureux '12**. In February, we were honoured to host Canadian War Museum historian, **Dr. Tim Cook '90**, for LEC's Alumni in Residence program. Still to come, we'll unveil a public mural project that will engage the community to highlight the unique qualities of the college.

"This anniversary year offers the chance to renew our commitment to building an accepting community which encourages leadership, engagement, and creativity," said Principal Freeman-Roth. "LEC Students and fellows are always welcome here and will always have a place at the table."



LEC painting: Ryan Lamoureux '12; photo Sylvia Dick '05

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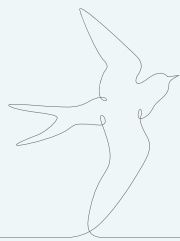
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IN MEMORIAM

Fondly remembering those who passed in the previous year.

Peter Adams, Trent Retiree
 Elizabeth Birch Millen '95
 Elton Brant '70
 Carol Brown Copp '64
 Daniel Burnie '69
 Kelvin Conrad, Staff
 Rory Coughlan, Trent Retiree
 Teresa Daw '84
 John de Pencier, Honorary Degree Recipient and former chair of the Trent Board of Governors
 Patricia Dixon '79
 Marjorie Durant '69
 Gerald Gilders '71
 David Gillan '69
 Susan Guthrie '84
 Linda Heffernan '81
 Janet Heinonen '74
 William Kinoshameg, Trent Retiree
 Michael Kitney '05
 Joan Knowles, Trent Retiree
 Wanda Komorowski '68
 William Lebow '74
 Elaine Litster '72
 Donald Lush '64
 Pauline Mills '93
 Elizabeth O'Connell '80
 Robert Patten '01
 Chantelle Petersen '08
 Mary Pratt, Honorary Degree Recipient
 Steve Richey, Staff
 Peter Roach '69
 Brett Snell '11
 H. John Stanford, Trent Retiree
 Michael Stewart '88
 Joyce Sutton, Trent Retiree
 Michael Vasiga '69

KATHY FIFE

Legacy Society

RETIRED TRENT SECRETARY
 KEEN PURVEYOR OF FUN
 GO-TO PERSON
 CAREER-LONG CHAMPION OF
 STUDENTS
 EVENT PLANNER EXTRAORDINAIRE

Remembering Trent in her will, Kathy's legacy will ensure staff remain at the heart of Trent and continue to help students achieve their educational goals.

What will your legacy be?



trentu.ca/legacy

TRENT
UNIVERSITY

Bird: Shutterstock_Derplan13

events

Trent University Native Association 50th Anniversary Feast and Pow Wow, Team Trend's 43rd Annual Hockey Reunion Weekend, 2nd Annual Trent University Alumni Day of Service, Head of the Trent Regatta and Homecoming, and much more!

► **Check out our full event listings**
mycommunity.trentu.ca/events



Trent Lands and
Nature Areas Plan

SHARE YOUR IDEAS

as we update the Trent Nature Areas Plan.

The Trent Lands and Nature Areas Plan will assist the University to achieve its vision of a 'sustainable and inspiring campus community, thoughtfully integrating the natural and built environment, with vibrant spaces to learn, innovate, be active and live.'

Phase 1 of this two-phase initiative is focused on understanding and mapping the natural, cultural and archaeological features and functions existing within the campus lands, such as the location, type and status of wetlands and woodlands, species, and areas of significance to First Nations.

Phase 1, happening now, will review the Nature Areas Stewardship Plan, mapping natural heritage features and functions on the campus to identify areas for protection, stewardship, remediation and enhancement.

Get involved at trentlands.ca

Get involved at trentlands.ca

Social PinPoint: Share ideas about Trent's campus right from your smartphone. Drop a pin on your favourite places, areas for enhancements, and significant natural or cultural features.

iNaturalist: Share your nature sightings to help our understanding of the biological diversity at Trent.

Send your ideas for Trent's Nature Areas to trentlandsplan@trentu.ca.



LOOKING BACK

Mid-Century modern on full display at Lady Eaton College. Aligned with modern ideals, Eero Saarinen collection “Tulip” armchairs and side tables once resided in the Lady Eaton Pit.

For a full photographic listing of original Trent furniture, please visit trentu.ca/heritage/furniture