

TRENT

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REVOLUTION*

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Yuwa Hedrick-Wong '71
Envisioning a more inclusive economy

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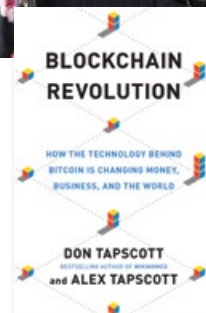
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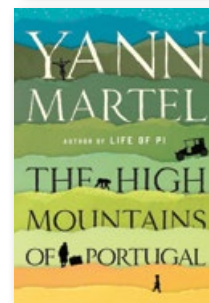
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ON THE COVER: Yuwa Hedrick-Wong '71
Photo: Jason Bain/Peterborough Examiner/Postmedia Network

ALUMNI CONVERSATIONAL SHORTHAND



Packing up the gear from my podcast interview with Trent chancellor **Dr. Don Tapscott '66**, I took a moment to enjoy the view from the top floor boardroom of the Rotman School of Management: the University of Toronto was spread out below me in Romanesque and Gothic Revival splendour, while Lake Ontario was a wink of reflected sunlight on the horizon. The room itself was a sleek image of modern prestige.

I then took a moment to remind myself of how fortunate I was. No, not for being able to visit such stately digs—although that, too, was a highlight—but rather, for the number of insightful conversations that I'm treated to on a regular basis. And the one that I had just had with Dr. Tapscott was indeed a fascinating one.

Now, the nature of my work with Alumni Affairs does mean that I seek out discussions with Trent grads

who are leaders in their fields or are pursuing some kind of noteworthy employment or undertaking. It is my job to interview interesting people doing interesting things, and turn them into interesting dialogues. And I am always excited when these conversations take a turn for the enthusiastic—which, inevitably, they do.

Here's the thing, though: while the enthusiasm shines through when we dig into the pursuits of these individuals, it also shines when the talk turns to their years at Trent. Often more so. As alumni, there is a commonality of experience that we all share—one that leads to an excited shorthand of language. When talking about Trent, it becomes easy to finish each other's sentences. The buzz becomes palpable.

The same thing happens on a regular basis at Alumni House. Alumni will come in to update their mailing address, find out about benefits, or merely to say hello, and will leave a good while later having had a great chat about their thoughts and memories of Trent. A surprising number of these individuals end up re-engaging with the community as a result.

Over the past couple of months, I've recorded warm and wonderful talks with two of the feature writers in this edition: Don (who is wearing his financial innovation/tech guru hat by providing a piece on the blockchain


economy)), and **Yuwa Hedrick-Wong '71**, a business leader and global economic advisor who has written an article on inclusive economic growth. Hardly surprising: we also delved into our common university experiences. I invite you to check out those discussions as a means of plugging into this Trent conversational energy.

What's more, I urge you to *physically* plug yourself back in. If there is an alumni chapter near you, contact them and see what they have on the horizon. Check out our website and see if there are activities or events that interest you. Or, simply pick up the phone or hop online and make plans to catch up with some of your old classmates.

Take the time to welcome yourself back to Trent.

Donald Fraser '91
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To listen to bonus interviews, please visit mycommunity.trentu.ca/alumni/trent-voices. Recent interviews with **Dr. Don Tapscott**, cover-story author **Yuwa Hedrick-Wong**, and Lady Gaga impersonator **Athena Reich '95** (see page 37) offer added depth to *TRENT Magazine* content.



Samantha Moss, Mossworks Photography

Pointing the bow towards new ways of learning

I'll admit, my office in Bata Library is unusually spectacular. Few university presidents have two floor-to-ceiling walls of glass that blur the lines between the indoors and an ever-changing riverscape. Visitors have commented that sitting in my office or the AJM Smith Room at Bata is akin to being on the bow of a ship. Ron Thom might not have foreseen a future Trent president who would keep two kayaks in his office, but his vision did inspire an award-winning architectural structure and a lasting legacy for scholarly contemplation amidst a stunning setting in Trent's flagship building, the Thomas J. Bata Library.

It is on this foundation, literally and figuratively, that Trent is now envisioning the "library of the future." Libraries everywhere are changing. Here at Trent we've already seen selected spaces where books have given way to new technologies, quiet areas turned to mixed-use and group-work space.

Many Trent alumni have made names for themselves as authors – **Yann Martel '81, Linwood Barclay '73** and our own chancellor **Dr. Don Tapscott '66**, to name a few. And our faculty continue to publish impressive works in the form of books. Dr. Caroline Durant of the History Department was just awarded the Prix de Canada by the Federation for the Humanities and Social Sciences for her book *Nourrir la machine humaine*. Another History professor, Dr. Finis Dunaway has been honoured with many international prizes and accolades for his most recent book *Seeing Green: The Use and Abuse of American Environmental Images*. Dr. Heather Nicol from Geography explores the idea of borders as central to Canadian identity in her recently released book *The Fence and the Bridge: Geopolitics and Identity along the Canada-US Border*. Dr. Rita



A LIBRARY OF THE FUTURE

Bode of the English Department at Trent University Durham co-edited *L.M. Montgomery's Rainbow Valleys: The Ontario Years, 1911-1942* and Dr. Antonio Cazorla-Sanchez, chair of History, recently published an acclaimed biography of Franco, entitled *Franco: The Biography of the Myth*, as well as *Fear and Progress: Ordinary Lives in Franco's Spain, 1939-1975*, a social history of Francoist Spain, recently praised in Spain's leading newspaper, *El Pais*.

Trent faculty members are active in publishing their research in print and electronic journals of all kinds. A study on the identification of amino acid variation in the prion protein associated with scrapie in Canadian dairy goats by Biology professor Dr. Bradley White, director of the Natural Resources DNA Profiling and Forensic Centre, was published in *BMC Veterinary Research*. Dr. Dennis Murray collaborated with leading experts on a landmark study on wolf conservation and was published in the prestigious journal *Science*.

The changing way in which we produce, consume and process academic research and information must be central to the way we imagine Trent's version of the library of the future. Today's students see the library as an important place to collaborate with others, but they value quiet space too. Ubiquitous state-of-the-art technology is simply expected as is integrated expert assistance with research and technology. As you'll read in our university librarian Robert Clarke's article, faculty expectations of the library have changed too. What's exciting in envisaging a

renewed Bata Library and Learning Hub is that it is in the context of the ongoing evolution of Trent at an exciting time. How will a reimagined Bata balance the history of the library with current and evolving needs? How will it relate architecturally and operationally to the new Student Centre?

Recently, the Bata Family exemplified this spirit of reaching into the future while honouring the foundations of the past. In an announcement at the Bata Library, named in honour of Thomas J. Bata, Sonja Bata and her family renewed their historic relationship with Trent University by announcing the Thomas J. Bata Graduate Scholarship. The annual award will be made available to a deserving graduate student from any country studying in any of Trent's 15 distinguished graduate programs.

It seems appropriate that in the Convocation issue we focus on renewal, evolution, lifelong learning and legacies. In what is another historic moment for our growing campus in the GTA, for the first time, Trent University Durham students will have their own convocation ceremony and graduate as a distinct cohort in the community of Durham. Congratulations to all of our students graduating in Durham and Peterborough in 2016 and welcome to the alumni family.

Dr. Leo Groarke, Ph.D.
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Mikayla Peasey

2016 Student Awards

Each year the Alumni Association recognizes student leaders for their contribution to the University through governance, to collegiate life, and to Trent spirit. The following awards and prizes were presented recently.

The Alumni Recognition Award has been presented annually since 1982 to one student from each college who has made a significant contribution to developing and maintaining the collegial environment at Trent.

★ Congratulations to the 2016 recipients: **Brooke Harrison** (Champlain); **Emily Stitt** (Lady Eaton); **Brenna Farren** (Gzowski); **Mikayla Peasey** (Otonabee); **Billie Clark** (Durham).

Robert Lightbody Prize is awarded to an upper-year student from Peter Gzowski College who has been actively involved in the life of the college and who has maintained a B+ average. This prize was established by the Alumni Association in honour of alumnus **Bob Lightbody's '64** contributions to the University. Bob is one of Trent's favourite sons—his career as a member of the original class, tenure as Peter Robinson College Cabinet president, time as an alumni councillor, and membership with the Board of Governors and Trent University Foundation, has benefited Trent immeasurably.

★ *Honorees: **Robert Briggs** is a supportive and engaging community builder who has positively impacted both the college community and the University. **Dawn Martin** is devoted to creating a culturally inclusive, safe, and transformational learning environment at Trent.*

Cheryl and Bryan Davies Award is given each year to a graduating student of Champlain College who has contributed to college life through the demonstration of one or more of the following qualities: compassion, generosity, enthusiasm, innovation, creativity, and enterprise. **Cheryl Davies '68** was president of the Alumni

Association from 1997 to 2001. In recognition of the contributions to college life by Cheryl and **Bryan Davies '69** as the first alumni in residence at Champlain College, the Alumni Association honoured Cheryl and Bryan Davies by creating this annual award in their name.

★ *Honoree: **Krishan Dineshkumar** showed great leadership through orientation and the Rebound Program and worked hard to involve all of his fellow students in college life.*

Eileen Gallagher Otonabee College Spirit Award/Medal is a gift from alumni, friends, and the family of Eileen and Finn Gallagher. It is awarded to a female member of Otonabee College (student, staff, or faculty) who has made an outstanding contribution to the life of the college. Professor Finn Gallagher was the fourth master of Otonabee College (1983-88); he and his wife, Eileen, were very active within the college. Mrs. Gallagher was a teacher at St. Alphonsus Catholic Elementary School in Peterborough. She is remembered for her great sense of humour and her lovely lilting Irish accent.

★ *Honoree: **Eugenia Ochoa** is active in the college as a community liaison, sits on several planning committees, is active within clubs and groups, and is the epitome of what Otonabee College represents: academic excellence and brilliance.*

Scott Rennie Memorial School Spirit Award/Medal—Scott Rennie '82 was a vibrant and ever-present force at Otonabee College, involved in every aspect of the college and of the University. After his passing, his friends, family and the Alumni Association established both the Scott Rennie Memorial School Spirit Award/Medal and a bursary in his name in the hopes

of keeping Mr. Rennie's memory alive. Mr. Rennie was outgoing and friendly, and he went out of his way to make people feel comfortable and involved. This award is presented to a male member of Otonabee College who has made an outstanding contribution to the life of the college.

★ *Honoree: **Scott Pharand's** participation in school activities and his own endeavours have been truly inspiring and motivational to others. He has left a permanent mark on this school that will never be forgotten.*

The David Glassco Prize was established by donors in 2013 to honour the late Professor David Glassco, a long-time faculty member in the Department of English Literature and former principal of Champlain College. Professor Glassco's contributions were not only felt in the classroom, but also in athletics, theatre, and music, both on campus and in the community. The prize recognizes a student who has demonstrated outstanding generosity of spirit in a range of activities outside the classroom, including music, athletics, or theatre, in the Trent and Peterborough communities. The David Glassco Prize exemplifies the Alumni Association's recognition of overall student leadership and participation in university life.

★ *Honoree: **Jenna Pilgrim** dedicated time and energy to research on Ron Thom's legacy at Trent, thrived in athletics, and led several major student-level philanthropic projects.*

The Robert W.F. Stephenson Prize

★ For full details on the Robert W.F. Stephenson Prize and it's winner, **Alaine Spiwak**, please see page 35.

WHAT'S NEW

AT TRENT UNIVERSITY

Four Distinguished Canadians to Receive Honorary Degrees

A celebrated journalist, groundbreaking female business leader, publisher and environmentalist, and an acclaimed novelist will all be celebrated with honorary degrees at Trent University's 2016 Convocation ceremonies.

Recipients include:



Kathleen Taylor

Honorary Doctor of Laws degree to be awarded for achievements in the banking industry, fostering respectful workplace cultures, and her dedication and contribution to charitable causes.

NEW

Ms. Taylor will receive her honorary degree at a special convocation ceremony for Trent University Durham graduates, to be held in the Durham region for the first time in University history.



Michael de Pencier

Honorary Doctor of Laws degree to be awarded for significant contributions to Canadian nature, art, and publishing.



Linwood Barclay '73

Honorary Doctor of Letters degree to be awarded for significant contributions to Canadian journalism and literature.



Roy MacGregor

Honorary Doctor of Letters degree to be awarded for significant contributions to literature, arts, journalism and culture in Canada.

Visit the website at trentu.ca/convocation to read full bios.

Planting the Seeds of Change: Food Activism Takes Root

Change—it's a reoccurring theme when Dr. Haroon Akram-Lodhi speaks about his research and teaching. "The world is changed by people," says the professor of International Development Studies at Trent University. "My goal is to facilitate the capacity in my students to recognize that they are the authors of their own future, and that through the choices that they make and the actions that they take, they can make the world a better and more just place for everyone."



Prof. Akram-Lodhi is one of Trent's "Champions of Change" featured in the new Spring 2016 issue of Showcase, which looks at faculty, students, and alumni who are making a difference on a local, national, and global scale. Read this article and others on environmental policy, the incarceration of women in Canada, and more, and explore the entire spring issue at trentu.ca/showcase

WHAT'S NEW AT TRENT



Teaching award recipients David Newhouse, Lesley Hewett '04, Dr. Shirley Williams '79, and Dr. Joel Baetz.

Celebrating Teaching Excellence at Trent University

Building on Trent University's reputation for excellence in teaching, faculty, staff, students and alumni gathered recently at the annual Celebration of Teaching Excellence to honour the extraordinary faculty members and instructors who are the recipients of the 2015/16 teaching awards. This year's recipients include:

Dr. Joel Baetz, English Literature, Trent University Durham

Symons Award for Excellence in Teaching

Professor Baetz is recognized for being an authentic educator and mentor whose carefully considered teaching methodologies engage students as active participants in the process of learning and discovery. One of his nominators stated, "What supersedes Joel's guidance toward academic excellence is his enthusiastic, insightful and engaging instruction, which ignites a passion and desire in his students to pursue excellence, advance critical thought, and relate our studies to the

world and life around us." Prof. Baetz will also be presented with the award at this year's convocation celebration.

Professor David Newhouse, Indigenous Studies and Business Administration

Award for Educational Leadership and Innovation

Professor Newhouse was honoured for leading by example, for his dedication to the refinement of teaching methods that facilitate student learning, his vital contributions to undergraduate and graduate programs, and for the deeply influential role he has played

in the development of teaching tools and approaches incorporating Indigenous thought and traditions. "These techniques facilitate student learning, build student confidence, and prepare students for the world beyond university," said one of Prof. Newhouse's nominators, adding: "He also has a unique understanding of how to generate student seminar leads that facilitate individual and group learning, model Indigenous responsibility and relationships, and contribute to capacity building at all levels."

Ms. Lesley Hewett '04, Forensic Science

Award for Excellence in Teaching Assistance

Highly regarded by her students for her approachability, fairness, and helpfulness, and for her adaptable teaching style, Ms. Hewett, a laboratory demonstrator in the Forensic Science Program at Trent, was recognized for her enthusiasm for teaching and her commitment to student learning and success. She was applauded for her efforts to implement the latest technologies and procedures to ensure that students have access to, and can apply, innovative analytical tools and approaches. In response to winning the award, Ms. Hewett said: "I am very excited and honored to accept this award. It's easy to be passionate and invested in my job with students that are always enthusiastic, responsive, and engaged."



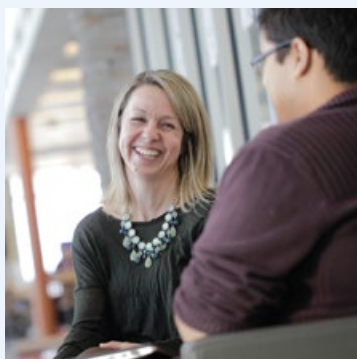
In addition to celebrating the award winners, this year's annual Celebration of Teaching Excellence was also the forum for a special \$124,000 gift announcement. The gift to the University's Unleash the Potential campaign will support two major projects: the creation of four new teaching fellowships, and the establishment of the new Deborah Berrill Design Studio, which will provide a space for the Centre for Teaching and Learning to support faculty across all disciplines in learning about and implementing the most recent developments in higher education teaching practice. Learn more on page 21.

Dr. Shirley Williams '79, Indigenous Studies

CUPE 3908-1 Award for Excellence in Teaching

Professor Williams, an elder and professor emeritus in Indigenous studies at Trent, was recognized as an engaging educator whose caring, patient, and positive approach to teaching fosters a warm, welcoming, and inspiring learning environment for students. Her teaching creates powerful spaces where language and knowledge is imparted to younger generations, and where students feel comfortable, motivated, and supported. In the words of one of her nominators, "Shirley is a great example of all Trent has to offer. She bridges the gap between Indigenous and non-Indigenous Canada in a positive and meaningful way. She is a warm and caring person, and uses humour and a big smile to foster a spirit of resilience, determination, and positive actions for the future."

Diploma to Degree Pathways Offer New Opportunities for Students



Lori Buscher, administrative and internship coordinator at Trent University Durham, engages with students.

Trent University is not only making headlines for innovative new programs, but is also becoming increasingly well-known as Ontario's most transfer credit-friendly institution. Building on

this long-standing commitment to offer pathway programs to assist students in making the transition from diploma to degree studies, Trent University signed three new articulation agreements with Durham College, Fleming College and Loyalist College. Graduates of their Social Service Worker programs will now be admitted into Trent's B.S.W. program with advanced standing, allowing students to earn both a diploma and degree in five years. The new pathway agreements will be in effect for September 2016, and students can choose to study either at Trent's picturesque Peterborough campus or at the growing Durham campus in the GTA.

Trent University Renews Historic Relationship with Bata Family

Graduate students at Trent University will benefit from the establishment of a new scholarship named in honour of the namesake of Trent's iconic Bata Library, Thomas J. Bata. It was announced at a special event at the University, which marked a renewed relationship between the Bata family and Trent University. Sonja Bata and family members were joined by the Trent community, as Mrs. Bata shared news of the new Thomas J. Bata Graduate Scholarship. It is an endowed \$5,000-per-year scholarship available to a deserving graduate student from any country studying in any of Trent's 15 distinguished graduate programs, and who holds values of leadership, innovation, entrepreneurship, community responsibility and global citizenship—values that Thomas J. Bata exemplified in his business and personal endeavours. As part of the scholarship announcement, Dr. Leo Groarke, president and vice-chancellor of Trent, unveiled a portrait of Thomas J. Bata by internationally-acclaimed portrait photographer Onnig Cavoukian, and rededicated the heritage plaque that honours the unique history and design legacy of the Thomas J. Bata Library.



Founding president Professor Tom Symons and President Leo Groarke are joined by Board Chair Bryan Davies, Head Librarian Robert Clarke, Sonja Bata and her family for a special event.



Elder and member of the Bear Clan of the Mohawk Nation at Akwesasne, Dr. Tom Porter, gives keynote address.

Truth & Reconciliation Theme for 40th Annual Elders & Traditional Peoples Gathering

In honour of the historic release of the final report by the Truth and Reconciliation Commission of Canada earlier this year, Trent University and the First Peoples House of Learning welcomed hundreds of Indigenous and non-Indigenous peoples from across the world to continue the ongoing conversation of reconciliation at "Rekindling the Fire: Reconciliation and

the Way Forward," the 40th annual Elders and Traditional Peoples Gathering. Dr. Tom Porter, elder and member of the Bear Clan of the Mohawk Nation at Akwesasne and champion of the revitalization of Indigenous languages and traditions, gave a well-received keynote address. A second keynote was presented by the Honourable Sydney Allicock, vice-president and minister of Indigenous

Peoples' Affairs of Guyana, and an Indigenous elder and crucial figure in Guyana's Indigenous community. Through dialogue, experiential workshops, storytelling, drumming and song, traditional feasts, and other ceremonies, the Gathering created an accessible and safe space for people to explore and contemplate what their role in the reconciliation process could be.

Trent Students Showcase Research



Shayna Deecker

This semester, Trent University continued to cultivate and support students' research with two events that saw students at all levels of study sharing their research with the broader Peterborough community. At the undergraduate level, students

were invited to take part in the second annual Three Minute Paper (3MP) event, which challenged them to share the research they've spent weeks on, to a panel of judges in just three minutes. Shayna Deecker, a fourth-year Forensic Science student, walked away with the top prize for her presentation on "The Use of Environment DNA for Amphibian Conservation Efforts." At the graduate level, the Three Minute Thesis event invited graduate students to sum up their months of research in front of a crowd of students, professors, and business leaders in the community, in just three minutes. Judges awarded Jessica Reid, a master's in Psychology



Jessica Reid

student, the top prize, the President's First Prize and Graduate Student Association (GSA) \$500 travel stipend, for her presentation "Beyond the Prison Walls: Gender Differences on the Effects of Parental Incarceration."

INCLUSIVE GROWTH AS DEMOCRATIZING PRODUCTIVITY

YUWA HEDRICK-WONG '71

THE BASIC IDEAS

The global challenge of income inequality has captured the public imagination. Depending on how this challenge is understood, however, the solutions could vary dramatically. While most people are convinced that more inclusive growth is needed, there are deeply divergent views on what exactly constitutes inclusive growth. Unfortunately, many such views also come with a lot of ideological baggage, which in their extremes are both misguided

and misleading. To a large extent, a more prosperous and equitable global economic future will depend on getting inclusive growth right.

I think this requires a deep re-evaluation of many conventional theories and approaches, and in so doing, a rethinking of the fundamental constructs of economic growth itself. Expert advice over the last half-century on accelerating economic growth has run the gamut from macro policy prescriptions like the International Monetary Fund's structural adjustment programs and the so-called Washington

consensus, to industrial policy for nurturing infant industries, to more grassroots-oriented microfinance and direct assistance to the poor, and to emphasis on investment in education and health, etc. The poor results of these recent efforts have been described aptly by William Easterly, in his 2002 book *The Elusive Quest for Growth: Economists' Adventures and Misadventures in the Tropics*, as "the elusive quest for growth."

However, through a new paradigm of understanding how knowledge and knowhow drive productivity, more recent work by



Yuwa Hedrick-Wong '71 is the chief economist and chair of the Academic Advisory Council at MasterCard Center for Inclusive Growth and the global economic advisor for MasterCard Worldwide.

to ski is a kind of knowhow, even though most skiers do not have any understanding of the physics of skiing, let alone how the body functions in making turns on the ski slope. And the only way we can learn how to ski is to practice it, not by downloading and memorizing a comprehensive analysis of the physics of skiing. While both knowledge and experience are needed in modern economic production, the more sophisticated the production, the more critical is the need to combine diverse and complementary knowhow. Since there is a clear limit on how much expertise can be embodied in a single individual, regardless of education levels, combining knowhow means connecting people and finding ways for them to collaborate effectively. From an individual perspective, the ability to plug into service networks like finance, education, and information, as well as people-oriented social, professional, and cultural networks, becomes a critical precondition for increasing productivity.

In this light, the poor are poor precisely because they are stuck in low productivity activities. In poor countries, workers, micro-entrepreneurs, businesses, and even entire industries are often shackled to low productivity operations due to the absence of many of the critical conditions that would have enabled workers to learn new skills and get better jobs, micro-entrepreneurs to thrive, small businesses to expand, bigger firms to finance the acquisition of productive assets and to access new and promising markets and customers, and so on.

Given this context, raising the productivity of the poor is the real key to poverty reduction and sustainable growth; and it requires inclusion.

Ricardo Hausmann (of the Center for International Development at Harvard University) on economic complexity offers a promising alternative to the standard models and policy prescriptions, which in turn provides a new foundation for evolving innovative approaches for tackling inclusive growth.

The research on economic complexity highlights a key feature in today's economic process: the need for economic agents, be they individuals, firms, and even countries, to collaborate in order to be productive. Such collaboration typically takes the form of being connected to a range of vital networks that are powerful enablers for raising productivity. The fact is that modern economic production requires a very large set of complementary inputs. At the most basic level, we need to be connected to networks that supply us with clean water and power, and affordable transportation networks that move us efficiently and affordably, before we can even participate meaningfully in the economy. Then there are the critical networks for accessing information, and for obtaining important services like health, education, banking and finance. Many such service networks

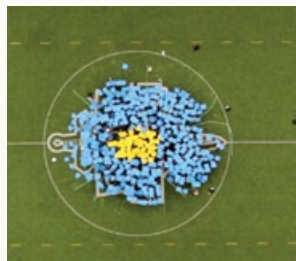
are also interdependent—if there is no road, then it is very difficult (if not impossible) to connect to electricity supply, which then means all sorts of appliances, including computers, would not work. There are also the more intangible, but no less critical, social and professional networks for accessing skills and knowhow that reside in people's heads. How well an economic agent is connected to these vital networks determines fundamentally how productive it can be.

Raising the productivity of the poor is the real key to poverty reduction and sustainable growth.

The more complex the production, the more is the need for combining knowhow that resides with different people, and knowhow is qualitatively different from knowledge. Knowledge is codified information that can be readily downloaded and shared in the forms of instruction manuals, textbooks, and software, and so on. Knowhow, on the other hand, resides mostly in our heads and manifests in our ability to do things. The ability

CONTINUED ON PAGE 14.

CREATING A LASTING LEGACY



Arguably the most sought-after project in the Bachelor of Business Administration program at Trent is the Legacy Project, a component of the course ADMN-4101H: Thinking About Management. The Legacy Project charges students with the task of creating something that will “leave their mark on Trent” long after they have graduated.

It all starts at the beginning of the semester, when students in the class divide into groups of between three and six people, and come up with a project where they feel they can succeed, and that will leave an impact at Trent and on future Trent students.

“It’s about how they contribute and what they want to leave behind. They pick a project that’s close to their heart and they develop it,” says Keren Fox, who was a previous TA in the course and oversaw the Legacy Projects. Ms. Fox adds that throughout the year, students receive advice and provide reports on progress. “From my perspective, it’s an excellent entrepreneurial experience. It’s about learning how to understand and handle the challenges while working collaboratively with others. They can’t succeed by just focusing on their own individual tasks.”

The end result? Students leave the course with great, real-world experience, which is invaluable to them when they enter the business world.

Over the years, the Legacy Projects undertaken by students at both the Peterborough and Durham

campuses have been as diverse as the interests of the students themselves. Highlights from the past few years include:

- Creation of the trentclassfind.com website: Armed with his knowledge of the campus, an enduring curiosity for website design and mobile applications, and his new DSLR camera, Gregory Simon created the site to help students get to class—fast.
- The legacy of “mad men”: A “Trent Heritage Collection” furniture preservation project where students increased awareness among their peers of the Canadian heritage that exists in the chairs they sit on at Trent—furniture chosen or built by Ron Thom and his team of architects and designers. Please see trentu.ca/heritage.
- “Company Crawl”: Created by a group of six students, this project aimed to leave its mark on Trent by revealing career and business opportunities available in the Peterborough area for soon-to-be graduates. The initiative brought together students and business leaders in the area for networking opportunities and to bridge the gap between the classroom and the office.
- Trent in a time capsule: Inspired by Trent University’s 50th anniversary in 2014/15, students constructed a time capsule to be opened in 25 years, during Trent’s 75th anniversary.

- “The Unforgettable Legacy”: Two student groups came together to achieve their goals—one had decided to work with the Alzheimer Society in Peterborough to promote awareness of Alzheimer’s Disease, while a second group wanted to set a world record. After months of planning and getting the word out, these students brought out a crowd of other students, Trent staff, and members of the community to create the largest forget-me-not flower in the world (the symbol of the Alzheimer Society).

- Golfing for turtles: A successful charity golf tournament created and organized by Trent students to raise awareness and funds for the Kawartha Turtle Trauma Centre, which generated more than \$3,400 in support of this community organization and showcased the students’ knowledge in business excellence.

“Since my first year, Trent has emphasized that businesses should be both successful and socially responsible. The Legacy Project is a perfect example of how to accomplish this task. It challenged us in ways that no other project had before. We were working in the real world where actual organizations were affected by the outcome of this event. This project was so real, I had to remind myself it was a school assignment.”

— Braden Naughton, who worked with fellow student, Sarah Logan, to organize a successful golf tournament in support of the Kawartha Turtle Trauma Centre in 2014



...we believe that exclusion from any of the vital, enabling networks reduces our productivity.

INTER-DEPENDENCY BETWEEN PRODUCTIVITY AND INCLUSION/EXCLUSION

Conventional approaches to economic development and poverty reduction tend to focus on providing what people, firms, and industries in poor countries need immediately. Typically, poor farmers are provided with tools, seeds and livestock; microfinance agencies offer loans to poor households and small businesses; subsidized project loans are provided for industries deemed important for development; and structural reforms are introduced to ease conditions for doing business; etc. The track record of these approaches is mixed at best, and very often they fail to address the crux of the problem: low productivity.

The most important dimension of productivity is the ability to produce more output with less input, often characterized as efficiency, which is distinct from the more commonly-

known labour and capital productivity, and which comes with an increase in these two production inputs. It is, in turn, critically dependent on generating better ideas of how to do things, of new ways of doing things that can replace the old, and how such better and innovative ideas can be diffused rapidly to more market participants. (Technically this dimension of productivity is referred to as "total factor productivity," which is distinct from productivity derived from having more labour or capital. Total factor productivity hinges on how useful information is being shared, and through widespread sharing, reproduces itself in ever more useful new forms.) Recent and thought-provoking research points to the overwhelming importance of efficiency in explaining why some countries are rich and others

are poor. For example, the gross domestic product (GDP) per worker in China and India are estimated to be respectively 86.4% and 90.4% lower than the GDP per worker in the US. It turns out that most of the difference in GDP per worker between the US and China (82.9%) is due to China's much lower performance in this critical aspect of productivity compared with the US. And in India such a difference is estimated at 67%. A similar pattern can be observed across the entire spectrum of developing countries. One cross-country analysis covering both rich and poor countries actually shows a perfect fit between GDP per worker and productivity that is based on efficiency and innovations.

And we believe that exclusion from any of the vital, enabling networks reduces our productivity.

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Conversely, gaining access to these networks improves our productivity.

Imagine the best brain surgeon in the world being put to work in a village clinic in sub-Saharan Africa without a high-tech operating room or an ICU with all the advanced medical devices, nor any teams of professional staff, and unsupported by diagnostic laboratory services and associated specialists. Under such circumstances, the very best that this brain surgeon can do is to function at the level of a general practitioner, dispensing basic medicine to patients (but very likely not even that). In other words, her productivity is dramatically reduced if she is confined to working on her own, disconnected from all the vital networks that she needs to function effectively as a brain surgeon.

In contrast, let's look at the example of fresh fruit production to see how productivity jumps from being connected. To be able to grow fruits and sell them to make a living, good knowledge in agriculture is obviously essential. And knowhow embedded in the workers on the fruit

farm are also important. Knowing when to look out for telltale signs of a plight that may wipe out the crop, based on years of experience, could mean the difference between saving or losing the entire harvest. But if the fruits are sold only locally, the entire operation is relatively simple, and the productivity of the fruit farm, even when profitable, is likely to be relatively modest.

Now, consider stepping up the game to export fresh fruits to overseas markets, from rural Kenya to Europe, for instance. It requires a quantum leap in the form of combining a much wider range of knowhow. Apart from running the fruit farm successfully, exporting fresh fruits requires cold-storage facilities with reliable power supply, and all the specific expertise embodied in such operations. Then there is the need for efficient freight logistics support and management to get the fruits to Europe while they are still fresh. Once landed in Europe, an efficient distribution system has to be in place to get the fresh fruits into the hands of the customers in the shortest

time possible. Because we are moving fresh fruits across national borders, we also need efficient customs, backed up by all the necessary knowhow in compliance with international sanitary and safety standards and so on. To pay for the costs up front before payments from customers arrive, the ability to access trade financing is, in turn, critical. Should the farm operator be able to access all these vital networks of complementary inputs and knowhow, the fresh fruits from her farm can be sold internationally at much higher prices. Another way of putting it is that the very same farm that produces the very same fruits now becomes much more productive, because it is now connected to these vital networks of knowhow. There is a huge jump in economic complexity from producing fruits to exporting fruits, with a corresponding jump in productivity.

Through the lens of economic complexity, we can reinterpret poverty as people being trapped in low productivity activities due to a lack of access to any number of

Imagine the best brain surgeon in the world being put to work in a village clinic in sub-Saharan Africa without a high-tech operating room or an ICU...

INCLUSIVE GROWTH AS DEMOCRATIZING PRODUCTIVITY

those vital networks that are powerful enablers for raising productivity. From this perspective, inclusive growth is all about overcoming barriers of exclusion. Some exclusion is due to the nature of the network itself. For instance, there is a high fixed cost per customer in providing banking and financial services with conventional banking business model, and low income people typically cannot generate sufficient business volumes to justify the fixed cost involved—so they are excluded. On the other hand, many social and institutional networks for connecting people and combining knowhow have evolved historically, predating the modern economy, and ancient prejudices embedded in these networks could seriously constrain segments of the population from full participation. Gender bias that is rooted in traditions and cultural practices is one such form of exclusion, though there are many others.

In this context, we can conceptualize inclusive growth as a process of democratizing productivity. Just as citizens in a democracy have participatory rights in choosing their leaders and setting parameters for public policies, inclusive growth means extending basic rights for all to access and participate in the vital networks of infrastructure, services and knowhow that are the indispensable enablers of increasing productivity. And in order to democratize productivity, we may need to work with governments under certain conditions, and yet to amplify market forces in some other contexts. In fact, governments and markets need to function as complements in order for inclusive growth to succeed.

A final caveat: democratizing productivity is not the same as enforcing an artificially equal distribution of all the necessary inputs and connectivity to every economic agent, even though it may appear more “democratic” on the surface. Instead, democratizing productivity

means dismantling barriers of exclusion to create equal opportunities of access and connectivity, even if it is inevitable that some economic agents who are more energetic and enterprising will be able to accumulate more resources and get connected faster and better, and therefore become more productive than the rest. However, under conditions of inclusive growth (the absence of barriers of exclusion), when some parts of the society are enjoying faster growth in productivity than others, a “win-win” situation results. More productive segments of the society would generate new opportunities for more productive activities, and that would benefit even those who are slower moving and less successful, pulling the entire society along. In this regard, democratizing productivity is also the most productive way of improving income equality. The future of the world depends on it.



Photo: MasterCard

Trent chancellor Dr. Don Tapscott and his son, Alex Tapscott, have written an important new book. *Blockchain Technology: How the Technology Behind Bitcoin is Changing Money Business and the World* discusses the second generation of the Internet, and its impact on civilization. In this *TRENT Magazine* exclusive Chancellor Tapscott discusses how this technology will help musicians to create a fair industry, enabling us all to feel good about how we consume music.



Photo: Finn O'Hara

DON TAPSCOTT '66

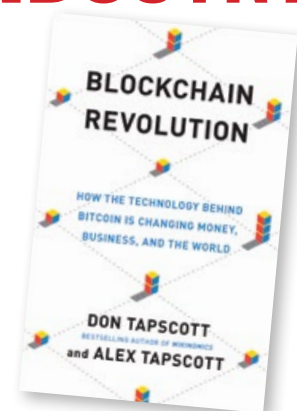
THE BLOCKCHAIN REVOLUTION, MUSIC, AND THE MUSIC INDUSTRY

Artists Can Finally Be Fairly Compensated

One of my best memories of Trent was that of playing in a band. Along with Trent students **Paul Butler '68**, **John Beach '65**, and **Terry Burrell '67**, I created the rock group Boys in the Band and we played gigs at the University and in the surrounding area. We were mainly doing covers of bands like Hendrix, Clapton, the Doors, Zeppelin, the Stones, and of course, The Beatles. The University gave us a room in the basement of Champlain College where we kept our gear and practiced. We loved the creativity, friendship, and of course the music! Ah, yes, and then there was the adulation...

My love of music caused me to reflect on the economics of the music industry throughout the years, and I wrote a lot about how technology might make the industry more fair. Prior to the Internet, most composers and musicians received a tiny percentage of the value they created. The big labels signed deals with young artists, and ensured that they would receive a tiny percentage of the revenue. Sadly, the Internet made things worse.

We are now seeing the emergence of a technological revolution that holds huge potential to fix the situation, though. It's called the blockchain. Allow me to explain.



Under the first generation of the Internet, many creators of intellectual property did not receive proper compensation for their work.

Initially, the music "labels" were small, radio was king, and the record store was queen. Back then, artist and repertoire personnel not only scouted for new talent, but also



TRENT RADIO: Archiving Trent/ Peterborough's Shared Musical Past



The Trent/Peterborough music scene is renowned across Canada. Acts such as Stan Rogers, **Ian Tamblyn '67**, Serena Ryder, the Silver Hearts, and the Burning Hell have all been staples here. Trent Radio is in the process of trying to document the history of this stellar scene.

With a unique history of bringing the Trent and Peterborough communities together through culture and music, Trent Radio has introduced hundreds of students to the art of broadcast and represented the first real radio airplay for countless artists and bands.

Since 2003, they have steadily increased their commitment to the acquisition, preservation and promotion of local content—specifically, local music. They're streaming this content online as a means of sharing the history and great work of this long-standing collaborative scene. Understanding that music is meant to be listened to and enjoyed, Trent Radio is hoping that people continue to engage with Peterborough/Trent tracks, albums, and artists, and to explore the community connections heard on these recordings.

So far, they've completed the initial phase in the creation of their Local Content Management Project (LCMP). They've already amassed a significant collection of recordings dating back to the 1960s. Simultaneously, they have been collecting the support materials that will effectively illustrate the stories of

the community members who made these recordings possible.

WAYS TO CONTRIBUTE

Trent Radio is looking for the support of alumni. Right now there are three ways to help out with the project:

- 1** Submit stories about the bands, songs and performances that you remember from your Trent days (not just a bio, but a memory about the song, artist or performance that helps to narrate the experience).
- 2** Submit content from your fellow former students—particularly ones who may have spent only a few years in Peterborough, but who were active in the music scene. There are many, many artists who have left no trace of their recordings or musical activities in our region.
- 3** Contribute financially. Trent Radio operates on a very limited budget. Donations will help supply the resources—human and otherwise—that are needed to take this collection to the next level.

Trent Radio hopes that people will visit the site to check out the latest in Trent/Peterborough music, and also to learn about the artists and bands who helped make our local scene so great. trentu.ca/org/trentradio

oversaw artistic development. In the last 25 years, however, the industry has changed. They've consolidated from thousands of labels down to three global superpowers—Sony Music Entertainment, Vivendi's Universal Music, and Warner Music Group—along with a few hundred indie labels.

Control of music copyright is currently concentrated in the few. The labels and the tour promotion companies have started asking for 360-degree deals from artists. This essentially means getting a cut of all the revenues that an artist generates—publishing rights to the underlying composition, usage rights to the sound recording, performance rights when the artist goes on tour, potentially even merchandise and sponsorship rights. All of this is executed regardless of whether or not the company invested in the cultivation of those rights.

I had hopes that the Internet would help democratize music and enable artists to disintermediate the big labels. Indeed, it's been helpful to some (think Justin Bieber's rise to fame for example) to reach a mass audience. But for most, it has made things worse.

Enter Apple Music and Spotify—technology companies that add to the taxation on artists' revenue. This entirely new layer of intermediaries has inserted itself into the supply chain between artists and labels, slicing the artists' piece of the pie even thinner.

Take streaming music as an example. According to recent reports, Spotify pays, on average, between \$0.006 and \$0.0084 per stream to rights holders, and usually directly to the labels. The calculation of this initial payment may seem transparent at first—Spotify's site states that it pays 70% of its advertising and subscription revenues to rights holders—but we reviewed its 41-page "Digital Audio/Video Distribution Agreement" with Sony USA

For more information, or to find out how you can help, please contact:

Jill Staveley, production manager, Trent Radio
jstaveley@trentradio.ca, 705-741-4011
Trent Radio: trentradio.ca
Trent Radio Local Content Management Project (LCMP):
lcmp.trentradio.ca:17080



THE BLOCKCHAIN REVOLUTION:

We will not need to trust each other in the traditional sense, because the new platform ensures integrity.

Inc., and the payout of some \$42.5 million in non-recoupable advances to Sony artists is anything but clear. In fact, the first paragraph of the agreement calls for confidentiality. It appears that neither Spotify nor Sony can inform Sony's artists of the impact of this agreement on artists' revenues.

Rich Bengloff, president of the American Association of Independent Music, has gone on record (in Micah Singleton's May 2015 article in *The Verve*) to state that the labels don't usually share money not directly tied to usage. Meanwhile, industry analyst Mark Mulligan predicted (in Stuart Dredge's article in *The Guardian* from August 29, 2014) that "artists are going to feel pain for at least another four to five years, just as they did in the first four to five years after iTunes launched."

Further, these three majors have a combined 15% stake in Spotify, the most popular and lucrative streaming music service. So they will get an extra cash infusion—if (and when) Spotify

goes public. Apple has become the world's largest music retailer, and Live Nation the world's largest live entertainment company.

This is all about to change. The Internet is entering a second era based on blockchain technology—the underlying technology of digital currencies such as bitcoin.

At its most basic, the blockchain is a global database—an incorruptible digital ledger of economic transactions that can be programmed to record not just financial transactions, but virtually everything of value and importance to humankind: birth and death certificates, marriage licenses, deeds and titles of ownership, educational degrees, financial accounts, medical procedures, insurance claims, votes, transactions between smart objects, and anything else that can be expressed in code.

This ledger represents the truth because mass collaboration constantly reconciles it. We will not need to trust each other in the traditional sense,

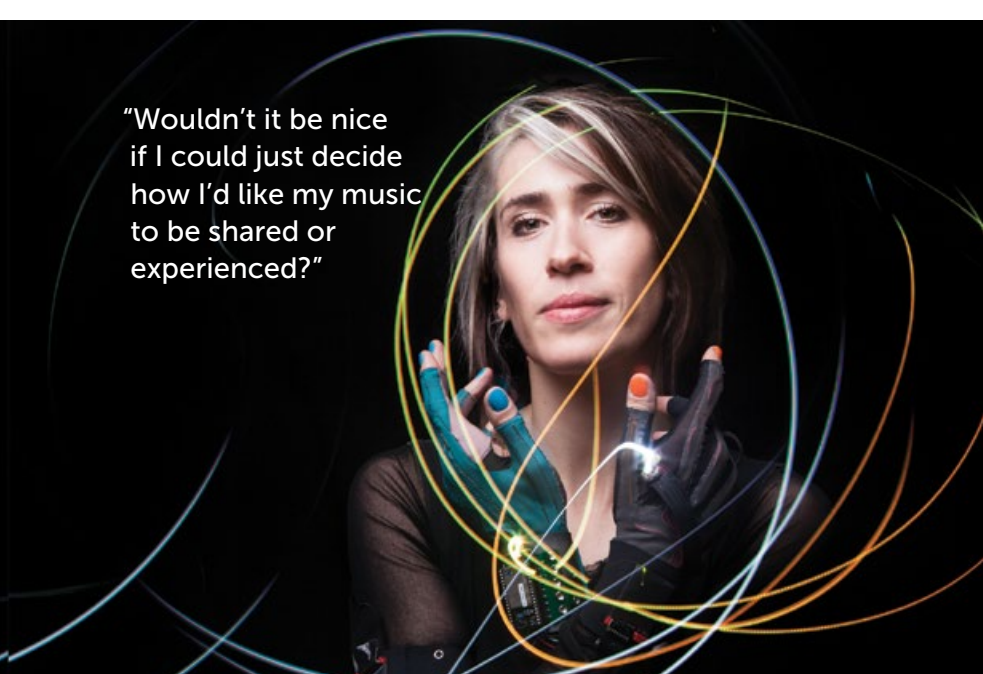
because the new platform ensures integrity. It is trust achieved through clever code and mass collaboration.

As Alex and I explain in *Blockchain Revolution*, we're currently witnessing the rise of a new music ecosystem emerging on the blockchain. This is being led by British singer-songwriter Imogen Heap, cellist Zoë Keating, and blockchain developers and entrepreneurs. Through this evolution, cultural industry is up for disruption, and there exists the promise that creators will get fully compensated for the value that they create.

"Wouldn't it be nice if I could just decide how I'd like my music to be shared or experienced?" Heap asked during one of our book interviews with her. "To simply upload a piece of music, for example, and all its related content to one place online, for all to tap into and derive from. Usage rights, ownership, the equivalent of today's liner notes, latest biography..."

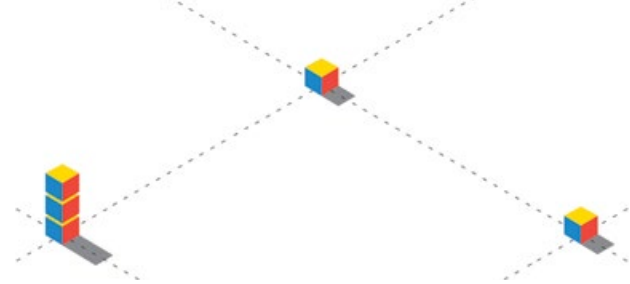
And all other parties—not just record labels, music publishers, and tour promoters, but also corporations looking for jingles, TV producers looking for soundtracks, mobile service providers looking for ringtones, and the many fans looking to do fan videos—could decide whether to agree to Ms. Heap's terms of use.

During a live panel for *The Guardian*, Ms. Heap expanded upon her vision: "Wouldn't it be amazing to feel the presence of the artist—that if they make that decision about their music, it's really felt in a real physical sense, even from one day to the next?" she asked. "I may decide, hey, it's my birthday today, all my music is for free or ... if you're under 16 or over 60, it's on me! Or to divert all payments due to me to a relief fund, with just a few alterations of wording in the smart contract."



"Wouldn't it be nice if I could just decide how I'd like my music to be shared or experienced?"

British singer-songwriter Imogen Heap. Photo: Fiona Garden www.imogenheap.com



That's the goal of designing an artist-centric model on the blockchain, rather than one centered on music labels or tech distributors. Artists could produce music and be paid fairly for the value they create, and lovers of music could consume, share, remix, and otherwise enjoy what they love while paying a fair value. This model wouldn't exclude labels or digital distributors, but they would be equal rather than dominant members of the ecosystem.

The new music industry is not a pipedream. In October 2015, Heap launched her first experiment by releasing her song "Tiny Human," and all related data—the instrumental version, seven stereo stems, front cover image, music video, liner notes on musicians, gear, credits, lyrics,

acknowledgments, and useful links, and the story behind the song—on the Internet. These details would increase her discoverability on the Internet with the goal of allowing potential collaborators to find her.

Ms. Heap invited fans, developers, and services to upload her song to their various platforms and to share their work as well. She granted them nonexclusive rights to create an Imogen Heap artist profile, provided that they gave her the login details and permissions after uploading her files to their systems. If they expected revenue streams, then she asked them to provide payment models, percentages, and amounts so that she could factor those details into her analysis of the experiment. Finally, she welcomed donations to her bitcoin address and

promised to direct half the proceeds to her charitable foundation, Mycelia, her name for this new ecosystem. Usage data and participant behaviour would inform the next stage of development on the blockchain.

Various companies are working on its design and collaborating with Ms. Heap and other forward-thinking musicians. This new ecosystem can ensure that artists are fed first, not last. And for patrons, it can enable us to enjoy music knowing that our favourite artists are being fairly compensated.

For the whole story on the blockchain reinvention of music, as well as the blockchain reinvention of just about everything else, see Don Tapscott and Alex Tapscott's *Blockchain Revolution*.



A common characteristic of Trent alumni is a desire for lifelong learning, which makes alumni access to JSTOR a particularly useful benefit.



JSTOR is a digital library of academic journals, books, and primary sources. It provides full text searches of almost 2,000 journals. More than 8,000 institutions in more than 160 countries make use of JSTOR. Access to most content is by subscription—which, for Trent alumni, is covered by Alumni Affairs.

As well, the Trent University Library is pleased to offer Trent University Alumni Association members borrowing privileges at no charge, at both our Bata and Durham branch locations. Trent alumni have the same privileges in the Archives as current Trent students.

For more information, please visit:
trentu.ca/library/alumni



Dr. Deborah Berrill '69

4 TRANSFORMATIVE
3 COLLABORATIVE
2 PERSONAL
1 PURPOSEFUL

TRANSFORMING THE CRAFT OF TEACHING

The Centre for Teaching and Learning (CTL) is a new Trent-wide centre aimed at: elevating the importance of teaching; operating as a hub for collaboration and networking; and celebrating teaching excellence. Now past its first year mark, the CTL has supported over 100 teaching award nominations, 90 hours of professional learning sessions, and 15 special projects.

One of these projects is a comprehensive research study on capturing “the first year experience” from the perspectives of instructors, students and support staff. Another project called “The Open Chair” program involves Trent instructors sitting in on one another’s classes to observe and then reflect on their own practice. Staff of the CTL have also completed many one-to-one and departmental consultations on a range of curriculum, programming and teaching matters since opening their doors in Bata Library.

The Trent community believes that learning should be purposeful, personal, collaborative and

transformative, and the efforts of the CTL team are focused on enabling this vision.

This spring, the CTL hosted Trent’s annual Celebration of Teaching Excellence and it was a great day indeed, with four new and deserving teaching award recipients. At the ceremony, and with the help of President Leo Groarke and director of the CTL Professor Cathy Bruce, vice-president of Advancement Julie Davis announced two exceptional donations that will enhance the work of the CTL.

The first is a new “teaching excellence by design” studio, a state-of-the-art space in which instructors can develop and test out interactive teaching techniques that will enrich students’ learning experiences. This studio will include collaborative spaces for viewing and refining teaching practices, for encouraging teaching scholarship and collaboration, and for incubating and experimenting with powerful pedagogies. The studio will be named after an inspirational and award-winning Trent professor emeritus, **Dr. Deborah Berrill '69.**

The second donation is for four new teaching fellowships. Each teaching fellow will be awarded a \$6,000 prize for three years. Two fellowships will be awarded for the fall of 2016 and two more will be awarded in 2017. Each fellow will be able to take advantage of the Deborah Berrill Design Studio to engage in leading-edge teaching innovations, and to share their learning with colleagues.

On the horizon is also a new “Teaching Spa” planned for future summer terms, where faculty can receive collegial support while refreshing their syllabi and teaching practices, and bringing some new elements to their classes. We hope to be able to offer a massage service too. And perhaps a jump in the river... This is, without a doubt, a special time for teaching at Trent.

Learn more about the Centre for Teaching and Learning at:
trentu.ca/teaching

BACK TO THE FUTURE: THE BATA LIBRARY TRANSFORMATION PROJECT

DR. ROBERT CLARKE, University Librarian

When you think back to your days at Trent, what are your memories of using the library? Do you think of the rows and rows of drawers holding the card catalogue? Sitting in the beanbag chairs, looking down into the atrium? Searching TOPCAT on those huge monochrome computer terminals? Or maybe of roaming the stacks in search of books and journal articles to use for your assignments?

To quote from a well-known TV and magazine advertisement from the 1970s, "We've come a long way, baby." Today's Trent students are more likely to read or do their assignments using their mobile devices, all the while sprawled out in an easy chair, sipping a beverage at a local, Wi-Fi-equipped coffee shop. Or they may still find themselves hunkered down at one of the familiar wood grain-and-green study desks in the Bata Library, accessing their course notes and other readings on their iPads or laptops.

Numbers really tell the story. There are more mobile devices on the planet today than there are people. Nearly two billion personal computers are in use worldwide. The amount of information that is available on the Internet is staggering. In 2013, there were almost as many bits in the digital universe as there were stars in the physical universe. By 2020, there will be four times as many.

What does all of this mean for libraries? You might be inclined to think that libraries—particularly

university libraries—are pretty much irrelevant in the 21st century. After all, everything is on the Internet, right? So there's really no need to go to the physical library any more, eh?

In 2014, the Library and Archives did an extensive survey of students, faculty and alumni in order to gather information to help shape the current strategic plan. Surprisingly, we found that Trent students, not unlike students at most other universities, feel that the library, as a place, is still very significant. Survey respondents told us



For more information about the Bata Library Transformation Project, visit: trentu.ca/library or contact me at robertclarke@trentu.ca.

that Trent's two library branches (Bata and Durham) are important places for socialization and for academic work; for access to expert help with their research or with their information technology; for access to traditional print books and journals as well as digital collections.

As part of Trent University's \$50 Million Campaign: Unleash the Potential, Trent will reinvigorate the Bata Library, preserve our digital and physical collections so that they remain accessible into the future, improve student access to the world of knowledge, and ensure that our

library services respond to the rapidly changing needs of students and faculty.

The planning tempo picked up rapidly last fall when Trent governor emeritus David Moore and his wife, Joan, donated \$1 million to Trent to catalyze the transformation of the Bata Library.

In February 2016, the Library and Archives hired the international architectural firm Perkins + Will to undertake a space planning study to help the University plan for its library of the future. The project, which wrapped up in May, has produced an exciting plan that will serve as the foundation for a future architectural redesign of the Bata Library space.

We want to transform the existing Bata Library into a people-centred, hi-tech, integrated learning support facility. To achieve that goal, the plan suggests a variety of spaces, such as:

- Collaborative space: a mix of semi-private (or "commons") spaces; private small group study spaces; individual study spaces; casual seating; and dedicated space for faculty and graduate students.
- Interactive spaces for instruction and discovery: state-of-the-art spaces for shared use by the Library, the Centre for Teaching and Learning and the Information Technology department. These include a teaching design/professional learning space; collaborative learning spaces; and an innovation incubator.



ALUMNI RISE TO THE CHALLENGE

Thanks to all the Trent alumni who accepted the Alumni Student Centre Challenge!

At time of writing, alumni donations to the student centre have unleashed \$670,000 of the \$750,000 in matching funds made available by an anonymous donor.

Over the course of nine weeks, we appealed to Trent alumni to accept the Alumni Student Centre Challenge and help students realize their dream of a new student centre on Symons Campus, beside the Bata Library and overlooking the Otonabee River.

The matching funds allowed us to double all alumni gifts and pledges. And we were able to offer a very special incentive to first-time donors. Their gifts were tripled.

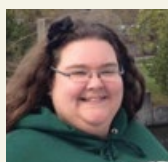
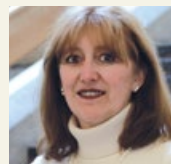
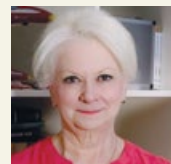
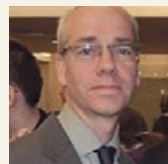
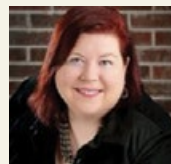
The email campaign has ended but alumni can still make a pledge. We anticipate the matching funds will be used up soon, so if you have not yet accepted the Alumni Student Centre Challenge, now is your chance.

Visit the ASCC website to see the names of all the alumni who have donated so far, and make your pledge at trentu.ca/ASCCChallenge

- Improved facilities for the University Archives and the Maps, Data and Government Information Centre;
- A "one-stop" service point that integrates expert help from the Library, IT, and other learning support services in one place;
- Consolidation of the Library's print book and journal collections; and
- Improvements to the Bata Library building infrastructure.

The founders of Trent University envisioned the library as the intellectual hub of campus, a focal point, and a welcoming space. The Bata Library remains at the heart of the Symons campus and is acknowledged around the world as an iconic example of Ronald Thom's modernist architecture—a stunning building that juts out over the west bank of the river. The redesign and renovation of the library will pay particular attention to this significant architectural treasure, notably the textured, exposed aggregate rubble walls, the wooden and concrete trellises that shade the windows, and the soaring, light-filled atrium.

When this transformation is complete, the Bata Library will not only fully support the many innovations in Trent University's teaching and research, but will also complement the spaces for students that will be available in the new Trent University Student Centre (scheduled for completion in summer 2017).



ASCC decade captains



Trent Sustainable Agriculture Experimental Farm

DR. MEHDI SHARIFI

Providing a multitude of research, educational, and collaborative opportunities for Trent students, faculty, staff and the community, the new Trent Sustainable Agriculture experimental farm sits on a 33-acre agricultural plot on the Symons Campus. Established in 2014, the farm aims to: provide interactive learning opportunities for students; provide research opportunities for advancing knowledge and understanding of sustainable agricultural practices; increase on-campus food production; develop partnerships with sustainable food groups; and become a demonstration site for growers.

Interactive Learning

The new Sustainable Agriculture and Food Systems B.A./B.Sc. program is just one of the many beneficiaries of the new farm. Already, students have had the opportunity to compare the diversity and types of insects found in a genetically modified corn crop to those found in a crop of organically grown corn. Students have also observed ongoing undergraduate and graduate research projects and learned about current research interests in sustainable agriculture. This, in turn, provides a benefit to the experimental farm in the form of a constant supply of eager young researchers looking to apply the agricultural knowledge that they have gained in the classroom.

Sustainable Agriculture Knowledge

The experimental farm also provides research opportunities that would otherwise be unavailable to students and faculty at Trent. There have been several undergraduate honours projects and graduate research projects since the experimental farm began only two years ago.

Intercropping Cover Crops

Cover crops can help to protect soil from erosion, manage soil nutrients, and promote overall healthier soil. One of the innovative projects taking place on the farm involves planting legume and grass cover crops between corn rows. Cover crops for corn are often planted after the corn is harvested, but intercropping allows for the benefits of cover crops to be realized more fully by maximizing the amount of time the cover crops are growing. This is a multi-year project funded by Grain Farmers of Ontario and the Agriculture Adaptation Council.

Soil Nitrogen

Nitrogen is often a limiting nutrient in crop growth. Understanding nitrogen availability to plants over a growing season is important to growers who are trying to be economically and environmentally conservative about fertilizer application. Many different soil tests have been developed to estimate the total amount of nitrogen that will become available. Research to understand how to improve soil nitrogen testing is ongoing.





Quinoa

There is interest in Canada about growing quinoa, an economically valuable crop. However, it is usually grown in warmer climates, so we need to learn how best to grow quinoa in a cooler climate. Research has been conducted that looks at herbicide alternatives and measures the response of quinoa to different nitrogen fertilizer applications.

Many other research projects are to come. With a permanent, close-proximity study site, it will be possible to conduct long term experiments that require constant upkeep and monitoring. A permanent research plot has the advantage of detailed records of site history and experimentation, and this can ensure appropriate site allocation in order to avoid confounding effects of previous research. The permanent site also allows for additional investment to broaden research opportunities, such as a tile drain system, which could support a large range of new research experiments.

33-ACRE
AGRICULTURAL
PLOT

On-Campus Food Production

The Trent Market Garden grew into existence only a year after the experimental farm was started. A partnership between Chartwells, Trent's on-campus food provider since 2014, and the Sustainable Agriculture and Food Systems program resulted in 1.5 acres for organic food production.

The student-run garden grew a variety of crops in their first year, including lettuce, tomatoes, spinach, squash, eggplant, watermelon, beets and sweet potatoes. Chartwells has agreed to buy much of the produce grown by the garden and also generously provided the up-front funding for the necessary infrastructure.

The Market Garden has also recently had a makeover and added over 1,800 meters of "hoop housing," which acts as a greenhouse. This upgrade will give the garden several extra weeks in the growing season and help to improve the project's food production.

This innovative project has many advantages: it brings fresh, organically- grown produce to students on campus; it provides an employment opportunity for students that gives them a direct, hands-on experience running a market garden; and it gives

Chartwells a supply of the freshest vegetables possible. Some food is served the day it is picked and cut.

Trent Apiary Club

The Trent Apiary club was established in 2014, and its beehives are located at the experimental farm. It held several beekeeping workshops during the year for undergraduate students. This year they received funding to establish a pollinator garden.

Why Care about Trent's Experimental Farm?

The experimental farm at Trent has provided many benefits to the Trent community in the last two years, and things are only getting more exciting. The Sustainable Agriculture and Food Systems program is growing and finding more ways to take advantage of the experimental farm. More professors are becoming interested in doing research and collaborating on research projects using the experimental farm. And the Trent Market Garden is extending their growing season, looking to improve upon their successful 2015 harvest. From gaining a deep understanding of soil nutrients to growing food to be consumed on campus, the experimental farm has something to offer for everyone.





The New School of the Environment: A Continued Reputation for Environmental Excellence

The name may be new, but environmental education at Trent University is anything but. Over the past 50 years, Trent has established itself as Canada's top post-secondary environmental institution. With the recent launch of the Trent School of the Environment, we're committed to building on the strengths that have allowed us to become the university of choice for future environmental leaders.

The School of the Environment brings together all of the environmental expertise to be found at Trent University. That's a considerable pool of talent. After all, we are home to leading scholars

from the sciences, the social sciences, and the humanities—people working in such wide-ranging disciplines as environmental science, agriculture, and geography. Where some schools focus on a single aspect of environmental studies, at Trent you can explore the full range of how we experience the environment: through water, air, soil, climate, food and our interactions with all living things. Our students benefit from this cross-disciplinary approach to learning, graduating with a keen understanding of the ways

in which humans interact with the environment: scientifically, politically, geographically, and ethically.

Students have the power to map out the path to their own futures.

Whether it's by zeroing in on an existing program of study within the School or by designing their own one-of-a-kind degree around passions and interests, the sky's the limit when it comes to opportunities for learning.

Something else that sets apart Trent's educational experience is our commitment to hands-on learning. As an institution located on the banks of



the Otonabee and surrounded by 580 hectares of land, Trent offers one of Canada's most sought-after locations for environmental research. Students are able to conduct on-campus field work, pursue community-based research projects, and take advantage of international study opportunities that offer a global perspective on all things environmental.

All of this has led to Trent's current and long-standing reputation as a pioneer and innovator in environmental education. We are known for our partnerships and accreditations and for our ability to respond to emerging opportunities in the environmental sector. A degree from the Trent School of the Environment means something to others in this field; it is respected and recognized. Trent was the first university in Canada to achieve accreditation from ECO Canada for its environmental program—a national standard for excellence in environmental education.

From campus to workplace, graduates of Trent's School of the Environment are career-ready and job-ready. Alumni end up pursuing careers in the private sector (employed by companies in the forestry and other resource industries and in environmental consulting firms); the public sector (working for international, federal, provincial, regional and municipal agencies); and with a variety of non-profit organizations, including many highly respected environmental agencies. And some find opportunities to apply what they've learned at Trent in far-reaching and unexpected ways, transitioning to careers in architecture, law, and medicine.

trentu.ca/environment



ALUMNUS JUSTIN CHIU DONATES \$1.5 MILLION TO TRENT

Trent alumnus **Justin Chiu '76** has donated \$1.5 million to the University's new International Institute for Environmental Studies. This transformational gift follows on the \$165,000 that Dr. Chiu donated to help launch the Institute last year.

The Institute, in partnership with Nanjing University in China, brings experts from prestigious universities around the world together to tackle international environmental issues. It will see world-class research scientists and policy analysts working collaboratively, sharing expertise, facilities and research programs, and will position Trent as a global leader in the development of research and policy for the management of environmental issues.



International Institute for Environmental Studies
国际环境科学中心

Trent University president and vice-chancellor Dr. Leo Groake acknowledged the ongoing generosity of Dr. Chiu, including his \$1 million gift to the Trent Community Sport and Recreation Centre in 2010, and the \$1 million to endow two scholarship funds, the Justin Chiu International Scholarship Fund and the Rita Chiu Study Abroad Bursaries Fund, saying: "Justin Chiu has been a wonderful supporter of Trent and all it stands for. His many gifts have played an important role in our development. His

\$1.5 million to the International Institute for Environmental Studies will help build our impressive expertise in environmental research and our connections to China."

The Institute will encompass more than 14 highly-ranked international universities, all with leading programs in environmental science, engineering and policy. It will foster international exchanges of research scientists, field experts, faculty members, post-doctoral fellows and students. Further, it will facilitate the exchange of information, ideas, research needs and results among member institutions, and government and industry members and partners.

"The Institute has the potential to transform Trent's reputation and impact in the area of international environmental science and policy," said Dr.

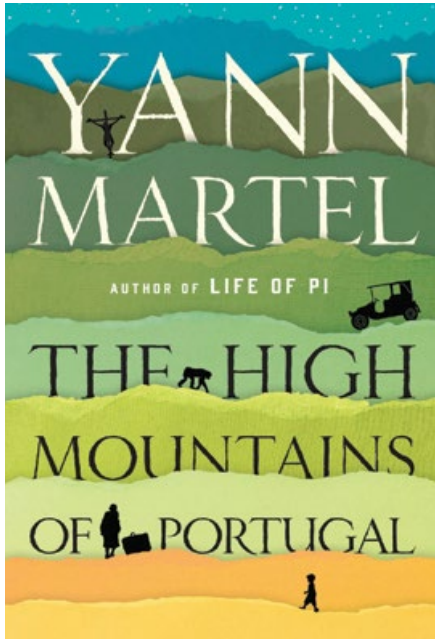
Douglas Evans, director of the Institute. "Without Dr. Chiu's generous support, the Institute would not have been possible, and Trent would not have the opportunities that will stem from its development."

Dr. Chiu graduated from Trent in 1978 with a joint degree in Sociology and Economics. Since returning to Hong Kong, he has become famous for his innovative projects, values-based decision-making, and philanthropy.

THIS IS HOME

Reading Texts in Yann Martel's *High Mountains of Portugal*

DR. MARGARET STEFFLER



Yann Martel's '81 *Life of Pi* in Canadian literature courses at Trent University has been nothing short of extraordinary. The first time I taught the novel, I placed it at the end of a course on modernism and postmodernism, not quite knowing what the student response would be. Fortuitously, it invited rich connections and expansions of the ideas that had developed throughout the course. As we talked about *Life of Pi* during the final week, questions and tantalizing threads that had been left hanging at the end of discussions of Adele Wiseman's *The Sacrifice*, Sheila Watson's *The Double Hook*, and Miriam Toews's *A Complicated Kindness* were gathered up into a passionate but measured conversation about faith, which became more animated and less cautious as the discussion developed. Effortlessly, it seemed, this novel provided one of the most successful and profound course conclusions I have ever experienced. *Life of Pi* achieved what even the most carefully organized syllabus could never deliver—a sense of what is possible in a globalized world after postmodernism.

Now I am looking forward to placing Yann Martel's new novel at the end of next year's course. *The High Mountains of Portugal* (2016) is a story of remarkable and diverse movements—physical, emotional, and spiritual—which invites a delightful suspension of disbelief on the part of the reader. It is not surprising to learn that Mr. Martel wrote the entire book while on the move, walking at his treadmill desk (see "A Writer's Room," which appeared in a March 2016 edition of *T Magazine*). In Part One we meet Tomás, a museum curator, walking backwards through the streets of 1904 Lisbon in order to "object" to the deaths of his wife, son, and father. From the first, this narrative speaks of and to a world of diasporic scatterings and intimate losses, which are accompanied by swelling grief and a yearning for faith.

Divided into three parts, "Homeless," "Homeward," and "Home," the novel devotes only a few pages to a Canadian setting—Ottawa in the 1980s—the home of Canadian senator Peter Tovy, the protagonist of Part Three. Peter, with his newly acquired pet chimpanzee, Odo, ends up in Tuizelo, Portugal, a location that also attracts and holds Tomás in Part One. Peter, like Tomás, is mourning the death of his wife and he is drawn to Tuizelo because it is his birthplace—the village his parents left for Canada when he was two years old. Tomás travels to this northeastern corner of his home country in a quest to find an artifact carved by Father Ulisses, a priest who lived in Angola and São Tomé in the 1630s. While his difficult journey is undertaken in an early motorcar on roads that dwindle into

MARTEL IN THE CLASSROOM: Quotations from Trent Students on *Life of Pi*

ENGL-CAST 3503H: Contemporary Canlit (1960–Now), Winter 2016

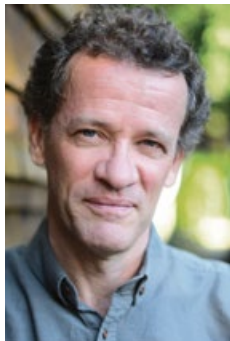
The brilliance of *Life of Pi* is that each time it is revisited, there is something new to discover; a new symbol is seen, an utterance gains new meaning, and Richard Parker transforms into something new.

Martel uses animals and nature in order to reveal the truths of religion and human nature. In this way he unites various religions and cultures through their revealed similarities. – Jessica Barrie

Terrifying, funny and heartwarming.
– Maggie Webster

Life of Pi invites a multiplicity of responses and interpretations, while evoking an openness and faith in story that allows the full consideration of each response and all stories. – Leah Andrews

Life of Pi is an incredibly rich novel in faith and visuals, and provokes the reader to engage in the idea of human nature and its fallacies. – Victoria Singh



tracks and rocks, Peter travels by land and air from Oklahoma with all of the complications that come with having a chimpanzee as a travelling companion. These bereaved husbands carefully search significant texts in order to find clues that will help them live into a future that, for them, gaps with aching loneliness and absence.

Tomás carries the diary of Father Ulisses with him, valuing

the power not only of the written word, but also of the material book. Drawn to Father Ulisses by “their mutual homesickness” (24), Tomás sees in the priest “a man perfected by his suffering,” worthy of imitation (96). The emptiness of the desolate landscape, embodied by the loneliness Tomás feels in the “wide open spaces between villages” (118), is filled with the sensuousness of the diary when he “presses it to his face [...] smells its great age [...] closes his eyes [...] takes refuge in Africa, in the waters off its warm equatorial coast” (48). He reads the text and its material properties with a determination to do something with his anguish through the parallels he draws between his journey and that of Father Ulisses.

It is through the more reflective Peter, however, that the mourner is comforted and the magic occurs. The “text” that Peter reads so astutely is the face and body of the chimpanzee, Odo. Just as Tomás saw himself reflected in the pages of the diary, so Peter sees himself and an entire world in Odo as he attentively reads and ponders the ape’s physical movements and expressions as signs. As he mentions in an interview with CBC’s Wendy Mesley, Mr. Martel believes that “we all seek a sense of home” in our desires for security and belonging. Father Ulisses had frantically and repeatedly scribbled “This is home” all over

the pages of his diary, while Peter achieves a calmer and less fragmented assurance that “home is his story with Odo” (327). The agitated fragments penned by Father Ulisses and pursued by an objecting and heartbroken Tomás are addressed through a new reading of an old artifact, and a movement that fills the novel’s absences with a wondrous and expansive presence.

I have left Part Two, “Homeward,” to the end of this discussion because it is the most puzzling of the three parts. In its move into magic realism it does not ask for the “suspension of disbelief” required of the reader in other parts of the novel. This section becomes so strange that any remaining remnant of disbelief is necessarily discarded in recognition of the carnivalesque. Agatha Christie novels and the human body are the texts accorded attention in Part Two. The focus is on mystery and dying as ways to read, study, and approach living and life. The phrase from Father Ulisses’ book, “This is home,” is uttered here by a woman named Maria Dores Passos Castro during the final stage of a bizarre autopsy.

Mr. Martel tells us that the name of the region commonly referred to as the “high mountains” of Portugal is *Tras-os-Montes*, which means “beyond or behind the mountains,” but there are no mountains. “Toponymy” or the “naming of places” is itself a “kind of storytelling” in Martel’s eyes (for more, tune into his interview on NPR’s *All Things Considered* from February), and there is much to wonder about in movements and spaces beyond or behind non-existent mountains. I am eager to hear what my students next year think of such movements and how they view the autopsy, Tomás’s tears, and Peter’s relationship with Odo as we move through the questions, suggestions, and possibilities raised by *The High Mountains of Portugal*—as is only possible in a Trent seminar.

Life of Pi is a book about suspending reality in one moment and in the next moment being asked to bring yourself back down to earth.

An amazing, thought-provoking story with humorous elements that will make you look at the world differently. It keeps you wanting more.
– Tess Johnston-lafelice

Life of Pi is a thrilling story that allows readers to believe in what they want—whether it be a fictional story with animals and carnivorous islands or metaphorical lessons about life and faith. – Maria Hayes

Life of Pi is beautiful, chilling and freeing, somehow all at once.
– Melissa Thomas

I’m here to challenge what I know, what I think and how I think—to observe the world around me in new ways. Yann Martel’s *Life of Pi* has delivered that challenge in a way no other religious text has.
– Scott Gardner

Canadian Differences

Carefully Curated Discussion

In the summer of 2014, T.H.B. Symons called and asked me to tea. At the time, I was chair of Trent's Canadian Studies Department, and I was pleased to visit with Professor Symons. I knew him to be such a strong supporter of the study of Canada at Trent.

On this occasion, he wanted to connect me with two "fine gentlemen"—these were Professor Symons' words, and they were accurate. These men, Professor Symons told me, could each look back on a distinguished career in business and now wanted to give something back to their country. The men turned out to be Bill Macdonald and Bill Innes, and what they wanted to give back to Canada has turned out to be "Canadian Difference."

The Canadian Difference project hopes to explore the place of mutual accommodation in Canada's story. Over the coming months, we'll uncover and debate Canada's successes and failures in dealing with our many differences and the challenges we have faced. We'll also

discuss how the pursuit of mutual accommodation could shape a better future for Canada and the world.

Through a series of rotating discussions, Canadian Difference aims to take on some of the key challenges facing the country today as we head into Canada's 150th anniversary in 2017. The initial series of topics includes questions about the place of Muslims in Canada, First Nations issues, and the place of Canada as a global citizen.

Each discussion is "hosted" by academic experts and by Canadians with something special to offer to the conversation. Some of these hosts come from Trent, including Professor Emeritus John Milloy and Professor David Newhouse, who will both host a discussion on what we can do to ensure that the process of reconciliation proceeds smoothly and productively. Other discussions will be hosted by experts outside of Trent who are generously volunteering their time.

When you become a member of Canadian Difference, you will get

access to carefully curated content that provides background to the discussions, as well as original material such as podcasts and short opinion essays from leading thinkers. The first podcast explores questions of belonging and acceptance for Muslims in Canada and features interviews with Zarqa Narwaz, creator of *Little Mosque on the Prairie*, and Ihsaan Gardee, executive director of the National Council of Canadian Muslims.

An advisory committee of interested Canadians helps to guide the project. It is made up of Trent scholars that include Professor David Newhouse (Indigenous Studies), Dr. John Milloy (emeritus, Canadian Studies), Dr. Momin Rahman (Sociology), as well as scholars from other universities, including Dr. Jocelyn Létourneau (Laval) and Dr. Jerry Bannister (Dalhousie). Some other prominent Canadian participants: CBC journalist Brian Stewart, *La Presse* reporter Joel-Denis Bellavance, pollster Mike Marzollini, and Professor Cindy Blackstock, executive director of First Nations

Founding fathers set the example of mutual accommodation in Confederation



Delegates from the Legislatures of Canada, gathering on the steps of Prince Edward Island's Government House for the Charlottetown Conference. Photo by George P. Roberts on September 11, 1864

CHRISTOPHER DUMMITT '92,
School for the Study of Canada



Canadian Difference

Share our history. Shape our future.

Child and Family Caring Society of Canada and associate professor at the University of Alberta.

Canadian Difference is also providing a new dynamic to graduate education in Trent's new School for the Study of Canada. Through the generous contributions of private philanthropists, Canadian Difference has already helped to fund work for three graduate students to assist with the project, with more assistance to come. Two Ph.D. students and one master's student have played an integral role in creating the site. All of this is just the beginning. The next step involves you and hopefully many other Canadians. Canadian Difference is in its very early stages. It is simply a place for discussion. The real content—and the real dynamism—should come from you.

Canada and Mutual Accommodation: A Canadian Difference Discussion

William R.K. Innes

Having spent much of my life working in global corporations in Europe, the Far East and the Americas, I have had the opportunity to observe Canada and Canadians in the context of the world. In this, it is striking how often Canadians are tasked with handling difficult and conflicted situations. It is also remarkable that Canada itself has not only survived, but also prospered, in spite of the challenges of our

geography, our cultural differences, and our proximity to a dominating neighbour to the south. Canadians have learned to find the space to accommodate their different needs with what we have called in this project "Mutual Accommodation."

At the very outset, Canada's founding fathers set the example of mutual accommodation in Confederation itself. They recognized that a unitary state in the Westminster model could not survive the geographic and cultural differences of our vast country. Instead of bargaining for a share of the power of the state, they reached for a different solution: one that could accommodate the differences which were inherent to the nature of the country—a confederation.

In our increasingly conflicted world, this heritage of mutual accommodation is an important strength, as thoughtful Canadians address our internal challenges and our role in the global community. As part of Canada 2017, the objective of the Canadian Difference project is to create a better understanding of the important role that mutual accommodation *has* and *can* play in the issues we face as a nation.

William A. Macdonald

Canada's primary shared narrative may be its uniquely strong drive toward mutual accommodation—made necessary by its hard geography and demanding history, and made possible by its amazing choices. Canada has also had major mutual accommodation failures, most importantly with its First Nations. In championing the Canadian Difference project, I want to help make this shared story of success and failure a part of Canada's 150th anniversary commemoration.

Mutual accommodation is fundamentally a way of going about things that makes space or shares spaces for different purposes, ways, cultures, and languages. I would say that mutual accommodation is one of the four great better ways of going about things, alongside compassion, freedom and science. The qualities needed for mutual accommodation are patience, restraint, flexibility, acceptance of complexity and a willingness to accept some of its disciplines from governments.

Canada, from its beginning, focused on what works over ideology. The utter necessity of mutual accommodation is perhaps the greatest lesson of the twentieth century and of post-Middle Ages European history. The fact that Canada got that greatest lesson right has made today's Canada not only a good country to live in, but a great country by the standards of all history.

We invite you to visit CanadianDifference.ca and become a member. We look forward to hearing what you have to offer.

Join the conversation: CanadianDifference.ca



ENGINEERING MARVEL:

The Amazing Story of Peterborough's Hunter Street Bridge

DR. ELWOOD JONES, PROFESSOR EMERITUS

The Hunter Street bridge, officially known as Ashburnham Bridge, was an engineering marvel. Frank Barber, Ontario's premier bridge builder of his generation, had the vision, imagination and skill to propel the project. Mr. Barber's leadership and decisiveness was called upon at several crucial points—because of him, the bridge was built of concrete. It was he who hired Claude Bragdon to do the design, which included several ideas that had been researched by Mr. Barber. When City Council worried about the expensiveness of the project, it was Mr. Barber who kept them on course.

The necessity for the bridge arose as a direct consequence of the Quaker Oats fire of December 1916. Quaker Oats did not have to rebuild in Peterborough, and so it was necessary to address the problems of its site. Peterborough needed to be able to fight fires in eight-storey buildings. There had to be an end to the traffic jams caused when trains were unloading, as the trains blocked traffic that was using the bridge. Of course, the Hunter Street bridge, installed in 1876, preceded the building of Quaker Oats and the invention of motor cars.

Peterborough, home to the Lift Lock and the Inverlea Bridge, had two impressive public works projects built of concrete, but it was not certain

that the new bridge would be built of concrete. Steel truss bridges were being built everywhere. After 1916, the longest steel arch bridge span was on the Hell Gate Bridge over the East River in New York City. Its longest span was 1,017 feet, or 310 metres. This bridge was the inspiration for the Sydney Harbour Bridge in Australia, which opened in 1932.

The Hunter St. Bridge was built between 1919 and 1921 and contains 14,000 cubic feet of concrete and 250 tons of steel.

The president of Quaker Oats, John Stuart, made a persuasive case for building a steel cantilever bridge over the Otonabee River. Such a bridge had just been completed in Quebec City over the much wider St. Lawrence River. The Quebec bridge, while under construction, had collapsed and killed 82 workers. This was a reminder of the dangers of building bridges; however, the project was continued four years later and was completed in 1917.

Even when considering that the Hunter Street bridge would go from Sheridan Street to Burnham Street, it was easy to argue that Peterborough did not require such a long bridge. Mr. Barber also persuaded local politicians that a steel bridge would require

frequent maintenance and painting. It would cost more in the long term. Moreover, Mr. Barber had researched the costs of building bridges in Ontario. In the few years since 1915, the price of building steel bridges had risen faster than for concrete bridges.

Mr. Barber believed that since the first reinforced concrete bridge had been built in 1889, technology had improved. Engineers were able to calculate more closely the impact of traffic on bridges, and to design bridges with more elasticity. Concrete bridges could look very heavy, but engineers were more aware that the weight of the bridge could be lightened by having open spandrels. Claude Bragdon's design of the river arch avoided the heavy look of concrete bridges by having open spandrels that reflected the arches of the bridge. Mr. Bragdon applied his training in classical styles from Rome and Greece to produce graceful arches in the basic structure and in the spandrels.

Several articles, many written by Frank Barber, appeared in the *Canadian Engineer* from 1918 to the mid-1920s that discussed aspects of the concrete arch bridges. Barber also thought there would be less stress on the central arch if one applied principles of elasticity to the toes or skewback and to the crown. In another article in the *Canadian*



Photos on this page: Scott Arnold

Engineer, Mr. Barber discussed how to design concrete curves in arches to ensure even load-bearing.

In September 1918, he was appointed consultant for the proposed Hunter Street bridge. Mr. Barber had the opportunity to apply his thinking to the central arch of the bridge.

Ratepayers approved a \$245,000 bridge, but the city engineer, R.H. Parsons, estimated the cost would be \$300,000. As the city elections were always held during the first week in January, the outgoing council passed the decision to the 1919 City Council.

After some cuts initiated by the politicians, Frank Barber's bridge still had 11 arches. It would use 14,000 cubic feet of concrete, and 170 tons of reinforcing steel. The central arch over the river stretched 234 feet from springer to springer, which at the time was the longest span on an open-spandrel concrete arch bridge built in Canada. Worldwide, 13 such bridges had longer spans.

Technically, the Hunter Street river arch was remarkable for its time and reflected lessons Barber had learned over a career that was already 20 years long. The first reinforced concrete bridge in Ontario was built in 1897, only 12 years before Inverlea and 22 years before the Hunter Street bridge. Between 1909 and 1918, Frank Barber had built 20 concrete bridges with open-spandrel arches, nearly all in Peel, York and Ontario counties, and one in Haliburton. Mr. Barber's earlier bridges had clear spans ranging between 40 and 91 feet.

The Hunter Street bridge was of reinforced concrete, mainly steel rods and lead alloy. In *Canadian Engineer* dated April 7, 1921, Mr. Barber claimed: "The construction throughout, with the exception of the central or river

arch, is of reinforced concrete; with the exception of the joints at the skewbacks and crown, there is no steel in the river arch. This arch is so designed that no possible loading can cause any part of the main ring to be in tension at any point."

Carl W. Condit, an American historian who wrote an excellent book called *American Building*, describes different ideas about reinforcement in concrete bridges. Clearly, some of the early efforts in the 1890s were almost steel beams covered with concrete. Engineers came to realize it was possible to use less. Almost all of the force in arch bridges is compression; the weight of the structure is more significant than the traffic moving on the bridge. In the



1890s, the standard for reinforcement on bridges consisted of I-beams bent in the shape of the proposed arch, laid parallel near the undersurface of the arch. In 1897, two patents added I-beams in the deck slabs and reinforcement in the spandrels. The amount of steel lessened over time.

Over the years, engineers have claimed that this was an unreinforced concrete bridge. The late Jim Hooper, long-time city engineer, told me that when the concrete silos of the old Peterborough Cereal Company were taken down in 1974 for the building of the Red Oak Inn, the contractors were forbidden to use dynamite because

of the proximity of the unreinforced Hunter Street bridge.

In 1993, the local engineering society prepared a plaque that is now mounted on the railing, which says that it is an unreinforced concrete bridge. The Professional Engineers of Ontario describe the distinction as follows: "The principal stresses in this arch are compressive stresses due to the dead load and are never neutralized or reversed by live loads or temperature stresses. Consequently, the entire rib is always in compression and there is no reinforcing whatsoever in the ring of the river arch."

When I questioned how a bridge that used 250 tons of reinforcing steel could be considered unreinforced, I was told that engineers describe bridges by its dominant characteristic—in this case, the river arch. Engineers have also assured me that all of the iron in the bridge was not for reinforcing. My own preference is to describe the bridge as a reinforced bridge with a well-designed central arch that is less-reinforced.

What is clear is that Frank Barber looked at all of the details related to building a concrete arch bridge. His expertise ensured that the bridge was built at the optimal weight for the purposes, and because of his planning, the city saved money. That did not stop people from complaining of the rising expenses of the bridge. However, in retrospect, Peterborough was left with an outstanding concrete arch bridge, designed by Frank Barber working with an architect to ensure good looks. Mr. Barber deserves the credit, both for the conception and fine-tuning, and for his ability to be persuasive whenever local politicians tried to pull the plug on a project they believed was too grand for Peterborough.

FROM THE HOUSE...

For exclusive content and regularly updated news and events, be sure to check out trentu.ca/alumni. Tune in for one of our interview or lecture podcasts, get up to speed on what is happening at the University or with your fellow alumni, or get bonus *TRENT Magazine* material—such as this article—that will only go out in our online edition.

Our From the House blog can be found at mycommunity.trentu.ca/alumni/from-the-house



DR. ALAN BRUNGER, PROFESSOR EMERITUS & DR PETER ADAMS, PROFESSOR EMERITUS

From its earliest days, Trent University has looked beyond its immediate setting in order to embrace the cultural diversity of Ontario, and Canada in general. Founding President Tom Symons invited the premiers of Québec and Ontario, Jean Lesage and John Robarts, to officiate at the cornerstone laying of Champlain College, the first building erected at the Nassau (now Symons) Campus in October 1965.

His timing was auspicious because Champlain had, in all likelihood, travelled, with hundreds of First Nations warriors, down the Otonabee River, which flows past the site of this College, some 350 years before in the fall of 1615. In his address to the large crowd, President Symons welcomed Premier Lesage

TRENT UNIVERSITY AND SAMUEL DE CHAMPLAIN

as “the leader of the French Canadian nation with whom we in English Canada joined long ago in a creative union.” He continued by observing, “We hope that this college, built on the soil of Ontario and bearing the name of Samuel de Champlain, will serve as a symbol of affirmation of this union for generations and centuries to come.”

Within a short time, the students of the new college adopted the mid-winter carnival “L’Ordre de Bon Temps” (“The Order of Good Cheer”), which Champlain had started in 1607 at his fledgling Bay of Fundy colony in order to lift the spirits of his men during the coldest season. The three-day event continues at Trent to this day for the same reason.

The two cornerstones at Champlain College are in both official languages and testify the role of Champlain in exploring and mapping present-day Ontario and his vision for the future of a unified Canada. The college boasts further evidence of Champlain’s role in the form of a portrait—a sketch in oils (photo)—completed in 1965 by the noted

artist Charles Comfort in preparing his large mural of the “Fathers of Confederation” completed in Confederation Year, 1967, in the foyer of the Library and Archives of Canada.

In addition, a bronze bust of Champlain (photo) on the staircase leading to the college’s Great Hall is the work of the prominent sculptor Jérémie Giles, whose two-metre-high statue of Champlain was completed in Ottawa in 2004.

Apart from the most prominent connection to Champlain in the form of the college in his name, Trent University established other links of this nature from its earliest days, mainly through the work of its archaeologists. The Anthropology and Native Studies departments were undertaking archaeological research in Huronia, home of the Huron Nation in Champlain’s time, beside Georgian Bay, Ontario...



For the full article (and list of academic sources), please see: mycommunity.trentu.ca/alumni/from-the-house#Champlain

TRENT PEOPLE



Left to right: Jess Grover '02, president of Trent University Alumni Association, Alaine Spiwak, Student Association president, Julie Davis, vice-president External Relations and Advancement, and Lee Hays '91, director of Alumni Affairs

The Robert W.F. Stephenson Prize: Alaine Spiwak

The Robert W.F. Stephenson Prize has been awarded to an exemplary student leader annually for over 20 years. This year's recipient, Trent University Student Association (TCSA) student president Alaine Spiwak, is no exception.



Robert Stephenson '68 attended Trent from 1968 to 1971, pursuing a degree in Political Studies. He remained close to the Trent community long after graduating, serving on the Board of Governors for 15 years. Mr. Stephenson was the first alumnus to hold the position as chair on the Board of Governors, a title he held until 1991.

He served on the Board for a total of 15 years (1979-94) in a variety of roles, including vice-chair (1989-91), and a number of committees, including board executive, labour relations, nominating, audit and finance, physical planning and development, investment advisory, and compensation (subcommittee). As a student member of Champlain College, he was active in student government and served as a student representative on the Board (1968-71).

Established by the Alumni Association, the \$500-prize has been awarded annually to an individual who displays outstanding student leadership.

Ms. Spiwak is an exemplary honoree for the prize. While working towards a degree in International Development

Studies, Ms. Spiwak has held multiple titles within the TCSA. First serving as ethical standards commissioner, Ms. Spiwak was then elected as student council president—a position she has held for two years. Her leadership contributions are obvious and have left quite a positive impression on the current and future Trent community. She helped lead the TCSA to achieving a large surplus, which is being put towards initiatives that support both students and staff. This includes improving Trent summer bus schedules, and leading the Student Centre Challenge.

"I am very honoured to receive the Robert W.F. Stephenson Prize, especially because I was nominated by two fantastic female role models: Julie Davis and Pippa O'Brien," says Ms. Spiwak. "I consider myself very lucky to have the opportunity to work alongside a great leader like Julie, who reached out to me to offer her support and guidance as I navigated my new role as TCSA president. Pippa is an incredible student leader who I have thoroughly enjoyed working with over the past year. I am very excited that we have both been re-elected into our positions, and that we have the opportunity to work together once again. I would like to thank the Trent Alumni Association for this award, and of course, **Nancy Stephenson '69**, wife of the late Robert Stephenson, who joined us at the ceremony."



Leslie Kirke, Charlie Tremblay and Saad Rafi

The Tariq Rafi Prize: Honouring an Alumnus' Perseverance

2016 marked the first year that a new award was presented at the annual Varsity Athletic Awards Banquet. The Tariq Rafi Prize was named in honour of **Tariq Rafi '86**, who passed away from cancer in May 2015. Awarded to a member of the men's rugby team, the prize recognizes a player who best exemplifies Mr. Rafi's qualities of strength, courage, and perseverance. The \$1,000-honour will be awarded annually.

The gift was established by **Mark McLaughlin '85**, **Kevin Elder '85**, and Mr. Rafi's wife, Leslie Kirke. Such is Mr. Rafi's impact at Trent that over \$35,000 has been raised in just six months.

Mr. Rafi was an accomplished rugby player who started out with the Ottawa Indians. Hanging on the wall at the Athletics Centre is a plaque for the winners at the 1986 Trent Athletic Banquet, with his name engraved as the recipient for men's rugby. In addition to his rugby efforts, Mr. Rafi was a student at Otonabee College, a B House student don, an employee of the Athletic Complex, and a manager at the Commoner Pub.

At this year's ceremony, the room went silent as PSB Wilson began to speak about Mr. Rafi. Two hundred student athletes were enthralled by the moving story of a man they would never know—and the establishment of an award that would ensure the continuation of his legacy. It was a moment of realization that teammates really are forever, and that the bond shared between Mr. Rafi and his teammates was—and is—the penultimate example of that.

The inaugural recipient of the Tariq Rafi Prize is Charlie Tremblay, a long-time member of Trent rugby and an active member of the Trent Athletics community. Teammate Michael Jorgensen describes Mr. Tremblay as "an incredibly hard worker, on and off the field. He's the guy who goes out of his way to spend time with each player on the team." Mr.



Tremblay is a fourth-year concurrent education student and will be attending teachers' college in the fall.

Mr. Rafi's wife Leslie was proud to present the award. "You [Tremblay] are receiving this prize tonight because your coach and teammates have been witnesses to the strength, courage and perseverance that you have demonstrated ... and they are sure you are up for whatever life has in store."

Trent Rugby Milestone

SEPTEMBER 30
TO
OCTOBER 2

Trent Rugby is turning 50 and we want to invite all former players, coaches and supporters of Trent Rugby to celebrate with us from September 30 to October 2, 2016 at Trent University. Four events will mark the 50th anniversary of Trent Rugby.

1. September 30, 2016, evening, "50 Years of Trent Rugby Coaches" will be held in the PSB Wilson Lounge at the Athletic Complex. This will be a casual panel discussion featuring the men who have lead the team over the last 50 years. There will be stories, beer, and laughter and will be moderated by **Garret Hart '92**. Coaches confirmed include Paul Wilson, Tony Sherman, Bob Keay, Ed Holton, Fergal O'Hagan, Kevin Breese and David McCully, with special video presentation by Richard Clarke.
2. October 1, 2016, early afternoon, will feature the Trent Men's Rugby team playing at the Justin Chiu Stadium against an OUA opponent. Also, enjoy the festivities of the Head of the Trent.
3. October 1, 2016, early evening, "50 Years of Trent Rugby Banquet" in the Great Hall at Champlain College. Gather with past teammates and coaches for a walk down memory lane celebrating 50 years of fellowship! Silent auction, presentations and fun for all!
4. October 2, 2016, late morning, Trent Rugby Alumni match! Come out and play for the alumni as they test their skills and cunning against the newly revived junior varsity squad. BBQ to be hosted after the match by the Trent varsity squad.

More information will be sent out about ticketing, timing and more surprises over the next few months. Please feel free to connect with the Trent Rugby Booster Club on Facebook or contact **Caleb Smith '93** at 905-357-9233 or email caleb_s51@hotmail.com. Thank you to the Trent Alumni Association, **Lee Hays '91**, the Trent Athletics Centre and athletic director, Deborah Bright-Brundle for their help and support.



TRENT UNIVERSITY CELEBRATES EIGHT INSPIRATIONAL ALUMNI

Two Order of Canada recipients among 2016 Alumni Award honourees

Eight exceptional Trent alumni were recognized for outstanding contributions to their fields, their communities, and to the University at the 11th Annual Alumni Awards Ceremony, held in the Great Hall of Champlain College at Trent University on Saturday, April 30, 2016.

"Our Trent alumni have gone on to accomplish incredible things and the honourees we're celebrating today are no exception," said Dr. Leo Groarke, president and vice-chancellor of Trent University. "Celebrating successful alumni from such diverse fields showcases the true value an interdisciplinary education at Trent offers."

The afternoon event featured memorable musical performances by Trent alumna **Athena Reich '95**, who was recently named the world's top Lady Gaga impersonator by *Chatelaine Magazine*. Special guests included members of the University's Board of Governors, president of the Trent University Alumni Association **Jess Grover '02**, Trent alumnus and emcee **DJ Cunningham '01**, and several previous Alumni Award winners. Also in attendance was leading business

thinker **Dr. Don Tapscott '66**, Trent University chancellor. At the event, Dr. Tapscott, who is Trent's first alumni chancellor, was celebrated and reappointed chancellor for a second three-year term.

"The Alumni Awards event is a highlight of the year for the Alumni Association," said **Lee Hays '91**, director of Alumni Affairs at Trent University. "This is a chance to celebrate alumni who are building communities and changing the world. This year's recipients have made extensive contributions in humanitarianism, history, education, and social justice, and it's a true honour to welcome them back to Trent for this recognition."

The 2016 Alumni Award recipients are:

Distinguished Alumni Award

Presented based on a person's achievement and leadership in their field. Recipients show leadership in business, industry, a profession, or in public life. They have brought honour to Trent University through endeavours which have earned them prominence within their field.



Fiona Sampson '87

Ms. Sampson has dedicated her life to the pursuit of inclusiveness, equality, and social justice. A graduate of Trent's Canadian Studies and Indigenous Studies M.A. program, with a Ph.D. in Law, she has pioneered post-Charter equality law, both in Canada and abroad.

As a human rights lawyer, Sampson has appeared before the Supreme Court representing

women and NGOs in equality rights. She has published extensively on disability, gender, and other issues of discrimination and served as an advisor to organizations dedicated to legal equality, such as the Women's Legal Education and Action Fund (LEAF).

Sampson now serves as an appointed member of the Ontario Human Rights Commission, and is executive director of The Equality Effect (e²), an organization she founded in 2008. This innovative venture ensures that women in countries with common law traditions have access to legal counsel and support as they attempt to secure justice for women, especially relating to sexual assault cases. Both e² and Fiona have received awards for their innovative human rights work, including the Lewis Perinbam Award (for human rights), and the Clifford Chance Access to Justice Award.

Sampson was recently appointed an Ashoka Fellow, given the 2014 New York State Bar Association's Distinction in International Affairs Award from its International Section, and named one of Canada's Top 25 most influential lawyers by *Canadian Lawyer* magazine. Earlier this year, she was honoured with one of Canada's highest distinctions, membership in the Order of Canada.

Tim Cook '90

A military historian and author, Mr. Cook has successfully ignited passionate interest in Canada's military past.

He was the curator for the First World War permanent gallery at the Canadian War Museum (CWM), and has curated additional temporary, traveling, and digital exhibitions. He was also responsible for the historical content of the permanent exhibition



"For Crown and Country: The South African and First World Wars," as well as for two special exhibitions: "Trench Life: A Survival Guide" (2008), and "War and Medicine" (2011). He is currently the director of research for the CWM.

In 2012, Cook was awarded the Queen's Diamond Jubilee Medal for his contributions to Canadian history and in 2013 he received the Governor General's History Award for Popular Media: The Pierre Burton Award. The award was given to Cook for his work making military history "more accessible, vivid and factual," both in his role as an author and as the First World War historian at the Canadian War Museum. In 2014, Cook was named a member of the Order of Canada in recognition of his contributions to promoting Canada's military history as an author, researcher and curator. For the past four years, Cook has been battling Hodgkin's Disease and recently underwent a stem cell transplant as part of his treatment. He has endeavoured to continue writing throughout his illness and has made time for speaking events as his health permitted.

Young Leader Award

Recognizes young alumni who have shown outstanding leadership throughout their first 10 years of alumni status, either in their professional career and/or community, public or humanitarian service, and are 35 years of age or younger.

Diane Therrien '10

Elected to Peterborough City Council in 2014, Ms. Therrien believes in challenging the political status quo. She is a staunch advocate for the downtown community and frequently participates in and supports local events and businesses. Utilizing her voice in council, Ms. Therrien regularly champions for increased resources for marginalized groups within the city.

Before being elected, Ms. Therrien worked with the Peterborough Poverty Reduction Network (PPRN), where she proved herself a leader in local efforts to reduce poverty in Peterborough. She has run workshops both at Trent and in the surrounding community, spoken with students and community groups, and been integral in securing funding for important initiatives to address the high rates of poverty in the City of Peterborough.



First Nations rights have remained a major focus for Therrien. She was a policy advisor for the Ministry of Aboriginal Affairs and has worked on several projects advocating for an improvement in both health services and post-secondary involvement for First Nations citizens.

Therrien continues to participate actively in academic life at Trent, frequently giving guest lectures in a variety of departments—most recently, in Gender and Women’s Studies and in Political Studies.



Spirit of Trent Award

Presented to alumni who have made a difference through contributions to the University, the Alumni Association, or the community.

Lorraine Bennett '72

Ms. Bennett heads up the leadership committee of the Vancouver chapter of the Trent Alumni Association, and has worked hard to elevate the group into being one of the most active and innovative in the alumni chapter network. Her leadership style is collaborative and engaging with a strong basis in gathering input and feedback. She is dedicated to delivering quality results.

Through Bennett’s guidance, the Vancouver Chapter has hosted a variety of successful events under the “Vancouver TrentTalks” banner.

Bennett is deeply committed to finding innovative ways to connect alumni to the Trent tenet of lifelong learning, and in promoting the Trent Alumni Association as a key means of sharing that philosophy.

Her work with the Alumni Association is but a continuation of her history of volunteerism. Bennett has given her energies to numerous causes, from The Vancouver Organizing Committee for the 2010 Olympic and Paralympic Winter Games, to Immigrant Services Society of BC, to BLG Reads to Kids (where she works one-to-one with individual children to assist and encourage the development of their reading skills).

David Wright '74, Bill Fields '71, John Kennedy '85 (Team Trend)

Mr. Wright, Mr. Fields, and Mr. Kennedy all share a faithful commitment to the Trent community and an absolute love of the game of hockey. Year after year, they combine these two passions to organize and host the Team Trend Reunion weekend—one of Trent’s oldest and most valued traditions.

Each have been integral to an event that demonstrates the values and lessons learned at Trent. They continue to display the spirit of Trent by bringing the community together for a weekend of friendly competition, shared memories, and celebratory food and drink.

For the past 40 years, the Team Trend Reunion has remained a standout alumni event and a valued part of alumni life.

Left to right: John Kennedy '85, P.S.B. Wilson, Bill Fields '71



Tony Storey Service Award

Presented to an alumni volunteer who has demonstrated a significant and long-term commitment to the Trent University Alumni Association.

Kate Ramsay '71

Ms. Ramsay has exhibited extraordinary leadership and dedication to both Trent University and the its Alumni Association. She has shown an unparalleled level of involvement in guiding her alma mater.

First appointed as an alumni member to the Board of Governors in 2001, Ramsay has provided a deep commitment to ensuring that alumni have an active voice in university governance. She has encouraged association members to stay informed while raising Trent administrative awareness of alumni talent and expertise.

She has served as a Board visitor to Senate, vice-chair of the Board, chair of the Executive Committee, chair of the HR Subcommittee, and member of the Names Committee.

Volunteer roles included membership of the Presidency Review Committee (2003 and 2008), membership of the search team for the Board chair (2007), and membership of the Presidential Search Committee (2008).



Ramsay served for nine years on the Advancement Committee and on the Fundraising Council that raised \$5.6 million for the Building Capacity and Peter Gzowski College campaigns. She also chaired the Catharine Parr Traill campaign, which raised \$2.1 million. In 2014, she co-chaired the highly successful Chancellor's 50th Anniversary Gala.

Ramsay was one of the lead fundraisers in establishing the Jack Matthews Fellowship endowment, created to honour Jack Matthew's founding contributions to the Trent International Program, Lakefield College School and the Canadian Canoe Museum.

Honorary Alumni Membership

Presented to individuals who have made a significant contribution to the life of the University or the Alumni Association, and who are selected by the Council of the Association to be known as an honorary member.

The honorary alumni memberships were presented to: Bryan Davies, chair of Trent's Board of Governors; Dr. Michael Allcott, director of the Trent International Program; and Sonja Bata, long-time friend of the University.



From left to right: Alumni Association President Jess Grover '02, Dr. Michael Allcott, Bryan Davies, and President Leo Groarke



Emcee DJ Cunningham '01



Tony Storey '71, former director of Alumni Affairs



Athena Reich '95 as Lady Gaga

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CONTRIBUTORS . . .

use of electricity back into popular awareness. He helped found The Trent Valley Archives and is an award-winning professor emeritus at Trent.

YUWA HEDRICK-WONG '71 is the chief economist and chair of the Academic Advisory Council at MasterCard Center for Inclusive Growth. He's also the global economic advisor for MasterCard Worldwide. Prior to his global role, he was economic advisor to MasterCard in Asia/Pacific, Middle East, and Africa. He is a regular commentator interviewed on CNBC, BBC World, CNN, CCTV (China), CBN (Shanghai), BTV (Beijing), Channel News Asia, Bloomberg Forum and many others.



#TrentVoices interview with Mr. Hedrick-Wong is on our podcast page: mycommunity.trentu.ca/alumni/trent-voices

DR. MEHDI SHARIFI is an assistant professor & Canada Research Chair in Sustainable Agriculture. His academic interests include: sustainable agriculture, nutrient cycling in agro-ecosystems, soil and plant testing, cover crops, organic amendments, industrial by-products, and nutrient losses measurement and mitigation.



Listen to Dr. Sharifi talk about his research at trenttalks.podbean.com/e/trent-university-school-of-the-environment-seminar-series-part-1

DR. MARGARET STEFFLER's areas of research include: Canadian fiction; children's literature; Canadian women's life-writing; literary and cultural constructions of childhood and girlhood; postcolonial literature and theory. She currently teaches Trent's Canadian literature course.

DR. DON TAPSCOTT '66 is one of the world's leading authorities on innovation, media, and the economic and social impact of technology, and advises business and government leaders around the world.

Blockchain Revolution is a fascinating follow-up to several groundbreaking works in which Dr. Tapscott explores the economic and social impact of technology, including *Macrowikinomics: New Solutions for a Connected Planet* (2010); the bestseller *Paradigm Shift* (1992); and *Radical Openness: Four Unexpected Principles for Success* (2013). His book *Wikinomics* was the bestselling management book in the United States in 2007.



Listen to our #TrentVoices interview with Dr. Tapscott on our podcast page: mycommunity.trentu.ca/alumni/trent-voices

DR. PETER ADAMS has taught courses in human and physical environments, climatology, snow and ice hydrometeorology, the geography of polar regions and watershed ecosystems. He was M.P. (Peterborough), 1993-2006. Among other things, he was chair of the Government Caucus on Post Secondary Education and Research and Canada's representative to the Parliamentarians of the Arctic.

DR. ALAN BRUNGER's research interests lie within the field of historical geography, particularly the settlement of new areas by groups of immigrants from specific national or ethnic origins. Current research includes comparative settlement of British groups in South Africa and Ontario, as well as the landscape of heritage of these and other cultural activities. Professor Brunger instructs courses in historical geography and settlement geography.

DR. CHRISTOPHER DUMMITT '92 is a cultural and political historian who specializes in modern Canadian history, with an emphasis on political culture and the culture of everyday life, and the way these intersect with political, intellectual and social developments.

DR. ELWOOD JONES has become one of the region's most recognized historians with over a dozen publications on local history to his name, including *Peterborough: The Electric City* (1987), a book that brought the city's historical identification as a pioneer in the

WE WOULD LIKE TO HEAR FROM YOU . . .

Have a story idea for *TRENT Magazine*? A question or comment for the editor? Want to submit alumni news or personal accomplishments to our online news feed? Please contact managing editor, Donald Fraser at donaldgfraser@trentu.ca. And don't forget to visit our website for even more great content: trentu.ca/alumni.



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First convocation, held in 1967, at the site of Bata Library.
Photo courtesy of Trent University Archives.

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