I am delighted to share with you our 2014-15 annual report on Scholarly, Research and Creative (SRC) activity. The latest in a series of banner years, our research funding grew by 10% reaching an all time high of $44.8 million. At a time when the average research growth is less than 1% per year across the system, Ryerson increased research funding by almost 60% in the past four years and was once again named one of Canada’s Research Universities of the year by Research Infosource.

Outstanding faculty, along with stellar students, often working in collaboration with non-profit, business, government and industry partners, have once again demonstrated that we can combine research excellence with relevance. And our Research Ethics Board (REB) has never been busier.

Support from the Social Sciences and Humanities Research Council (SSHRC) of Canada, Natural Sciences and Engineering Research Council of Canada (NSERC), and Canadian Institutes of Health Research (CIHR) has remained strong. This year Ryerson received its first two CIHR Team Grants, as well as two more Canada Research Chairs — one in Biomedical Science and Technologies and another in Cognitive Aging — bringing our total to 19. Faculty have received widespread recognition for their work, including three of our faculty, who were named to the Royal Society of Canada’s inaugural College of New Scholars, Artists and Scientists, representing Canada’s emerging generation of multidisciplinary leaders in their fields.

We sharpened our focus on interdisciplinary research themes that reflect the burning issues of this century — Digital Media and Technology; Energy and Sustainability; Health and Wellbeing; Technological and Industrial Innovation; City Building and Social Justice; Design, Culture and Creative Industries; Management, Entrepreneurship and Competitiveness; and Teaching and Learning for the New Economy — aligning with key government, industry and community priorities.

Ryerson continues to build Canada’s innovation ecosystem and to drive economic development and job creation. Building on the success of our established incubator, the DMZ — recently ranked the top university-based incubator in North America by UBI Global — the University has expanded its investments in commercialization, incubation, acceleration and innovation. Our new $10.7 million federally funded Incubate Innovate Network of Canada (I-INC) with Simon Fraser University and the University of Ontario Institute of Technology (UOIT) is taking our efforts to the next level. We also received $2 million in funding from Ontario’s Campus Led Accelerator (CLA) program, expanding our capacity to support student entrepreneurs.

At Ryerson, innovation is not confined to technological or economic goals. We have mainstreamed innovation and changemaking across the University in every discipline. Contributions from the Ontario Government’s Social Enterprise Demonstration Fund (SEDF), and the J.W. McConnell Family Foundation RECODE program supporting social innovation have helped level the playing field.

Almost half of our research funding supports students and we have continued to build programs, which provide experiential learning and applied research opportunities from Mitacs and the Ontario Centres of Excellence (OCE) among others.

This year also saw continued growth of our efforts internationally, with new and exciting partnerships with top-ranked institutions around the world. We have over 140 international partnerships across 36 countries, providing opportunities for faculty, students and entrepreneurs.

In short, there is much to celebrate. This report provides a glimpse into the diverse, vibrant, outstanding work our faculty and students are doing that is creating real change. And we know the best is yet to come!

Wendy Cukier, MA, MBA, PhD, DU (Hon) LLD (Hon)
M.S.C. (civillian)
Vice-President, Research and Innovation, Ryerson University
### 2014 funding and recognition for RYERSON

<table>
<thead>
<tr>
<th>Category</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total research funding</td>
<td>$44.8M</td>
</tr>
<tr>
<td>Increase in funding from foundations and non-profit organizations</td>
<td>98%</td>
</tr>
<tr>
<td>Canada Research Chairs (CRCs)</td>
<td>19</td>
</tr>
<tr>
<td>Academic publications</td>
<td>966</td>
</tr>
<tr>
<td>Total funding from the Tri-Council Agencies</td>
<td>$13.3M</td>
</tr>
<tr>
<td>Increase in research funding from provincial agencies</td>
<td>52%</td>
</tr>
<tr>
<td>Local, National and Global funding partners</td>
<td>194</td>
</tr>
<tr>
<td>Increase in total research funding from the previous year</td>
<td>10%</td>
</tr>
<tr>
<td>Other non-government funding</td>
<td>$10.6M</td>
</tr>
<tr>
<td>Citations of RYERSON researchers by other scholars</td>
<td>10,302</td>
</tr>
</tbody>
</table>
EXPANDING SCHOLARLY, RESEARCH & CREATIVE ACTIVITY

Our Scholarly, Research and Creative (SRC) activities are recognized for their comprehensive and collaborative approach. Ryerson University’s faculty and students are forging paths in SRC excellence and enhancing our reputation nationally and abroad.

Ryerson University continued its success in research funding in 2014-15, once again surpassing the $40 million mark in research. With an increase of 10% over the previous year, Ryerson, Canada’s comprehensive innovation university, achieved a total research revenue of $44.8 million.
Ryerson’s eight SRC activity themes were established by the Office of the Vice-President, Research and Innovation in consultation with the Associate Deans of research. These cross-disciplinary themes represent the University’s SRC strengths, which align with key government, industry and community priorities.

**DIGITAL MEDIA & TECHNOLOGY**

Ryerson drives the development of digital media by creating new products, services and online tools.

**ENERGY & SUSTAINABILITY**

Ryerson leads the development of innovative technologies and processes to promote energy conservation and sustainability.

**HEALTH & WELL BEING**

Ryerson grapples with pressing problems in prevention, diagnosis and treatment. Researchers work across disciplines to improve lives.

**TECHNOLOGICAL & INDUSTRIAL INNOVATION**

Ryerson improves design and production processes, helping to drive the adoption of new technologies and promoting Canada’s competitiveness in the international economy.

**CITY BUILDING & SOCIAL JUSTICE**

Ryerson shapes Canada’s future on the world stage. Ryerson promotes inclusion and citizen engagement, driving economic growth and social innovation.

**DESIGN, CULTURE & CREATIVE INDUSTRIES**

Ryerson combines scholarly, research and creative practice to explore and produce culture.

**MANAGEMENT, ENTREPRENEURSHIP & COMPETITIVENESS**

Ryerson researchers are helping to ensure Canada’s future economic prosperity by improving our understanding of entrepreneurial mindsets, small business growth and acceleration, and globalization.

**TEACHING & LEARNING FOR THE NEW ECONOMY**

Ryerson researchers are exploring new forms of pedagogy, teaching tools, strategies for inclusion, and innovative approaches to increasing the career success of our graduates.

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Ryerson research revenue once again surpassed the $40 million mark in 2014-15, with the University receiving a total of $44.8 million in research funding, which represents a 10% increase from 2013-14. Ryerson received research funding from the federal Tri-Council agencies: Natural Sciences and Engineering Research Council of Canada (NSERC), Social Sciences and Humanities Research Council of Canada (SSHRC) and Canadian Institutes of Health Research (CIHR). Ryerson boosted research growth by building on our partnerships with industry and community organizations, and by expanding investment from international agencies, non-government organizations, and foundations. Ryerson research is supported through the contributions and investments of more than 194 local, national and global funding partners, including provincial agencies, international organizations, foundations, and industry. Our funding allocation for graduate studies scholarships and postdoctoral fellowships continues to attract world-class faculty and high-caliber students to our research programs. Local and international researchers are coming to Ryerson to further their intellectual pursuits and scientific discoveries in a supportive, innovative setting. Ryerson is also bringing in top students who have chosen us for our experiential learning model and access to real-world, applied-research projects.
The Tri-Council agencies remain the largest individual source of funding for Ryerson, with approximately $13.3 million in research revenue received in 2014-15. In 2014-15, Ryerson faculty received $6.9 million from the Natural Sciences and Engineering Research Council of Canada (NSERC), a total of $3.6 million in Social Sciences and Humanities Research Council of Canada (SSHRC) grants, and a total of $2.8 million in Canadian Institutes of Health Research (CIHR) grants. Ryerson has continued to maintain its Tri-Council market share, ensuring its access to certain programs such as Canada Research Chairs (CRCs) and the Canada Foundation for Innovation’s Infrastructure funding. Trevor Hart (Psychology) and Josephine Wong (Nursing) are the first Ryerson researchers to be awarded CIHR Team Grants.

Trevor Hart’s team was awarded the CIHR Team Grant for their work with the Ontario HIV Treatment Network (OHTN) and the Canadian Foundation for AIDS Research (CANFAR), with funding awarded through the Boys’ and Men’s Health initiative. Hart’s work explores a policy of “treatment as prevention” for men who have sex with men, which could have profound implications for HIV prevention worldwide. “Treatment as prevention” means that services seek and treat the most vulnerable HIV patients, offering antiretroviral therapy and expanding care to reduce the risk of infected individuals transmitting HIV. Hart’s team will comprise the first national collaboration of researchers, public health workers, clinicians, and community-based organization leaders working on such a study in Canada. Their results will help to develop HIV prevention interventions that are rooted in Canadian data and tailored to the Canadian HIV epidemic.

Josephine Wong’s team was awarded the CIHR Team Grant for their work with the Ontario HIV Treatment Network (OHTN), with funding awarded through the Boys’ and Men’s Health initiative. Wong’s study targets heterosexual men who are African, Caribbean and Black. These men often do not seek access to HIV-related services due to self-blame or fear of being blamed, judged or stigmatized. Stereotypes and negative assumptions about heterosexual Black men’s sexuality have posed significant challenges to the development of effective, inclusive and accessible HIV responses that engage heterosexual Black men, especially men who are HIV-positive. Wong’s study will seek to enhance HIV prevention messaging in target communities and strengthen African, Caribbean and Black men’s involvement in community responses to HIV locally, provincially and nationally.
Ling Guan (Electrical and Computer Engineering) received an NSERC Discovery Grant to create data analysis tools that will enable the development of state-of-the-art multimedia information processing systems. This new signal analysis technique has the capacity to account for multiple types of sensory data at once. The technique has a range of applications, making possible new forms of media production and delivery with implications for the preservation of cultural heritage, infrastructure planning, e-health, and more.

Frank Russo (Psychology) was awarded an NSERC Collaborative Research and Development Grant with long-standing partner WaveDNA, a company that creates virtual instruments for songwriters, producers and composers. Russo will help WaveDNA develop an unprecedented technology that will incorporate emotional feedback into the workflow of music composition. This technology will help musicians predict the emotional responses of listeners to their music as they are writing it.

Ivor Shapiro (Journalism) received a SSHRC Insight Grant to launch the first comprehensive study of Canadian journalists: what they think as well as the contexts, pressures, and constraints under which they work. Through the study, Shapiro hopes to provoke a national conversation about the public understanding of the “business” of news. The study will engage with the public and journalists through an innovative program of presentations, workshops, newspaper articles, industry publications, and a radio documentary on the evolving identity of the journalist in society.

Candice Monson (Psychology) received a CIHR Operating Grant to work with a team of American academics and researchers from Veterans Affairs Canada to investigate the use of cognitive-behavioral psychotherapies, such as Cognitive Processing Therapy (CPT), in the treatment of Post-Traumatic Stress Disorder (PTSD). Monson’s study will help inform how best to support the ongoing implementation of evidence-based psychotherapy for PTSD in routine clinical settings.

Jennifer Martin (Child and Youth Care) received a SSHRC Partnership Development Grant to help prevent the distribution of child sexual abuse images online (CSAIO). Partnering with local, national, and international experts, Martin is focusing on Ontario law enforcement and the Greater Toronto Area to improve services and advocacy for affected children. This study will contribute critically needed Canadian data that can begin to inform legal, practical and theoretical understandings of CSAIO, revealing barriers to cross-sectoral work in the area.

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Stephen Waldman (Chemical Engineering) was awarded a CIHR Operating Grant to work with Toronto’s Hospital for Sick Children and Sunnybrook Research Institute on the development of a promising new method for ear reconstruction using tissue-engineered cartilage constructs. Waldman and his team will address this challenge—one of the most difficult in reconstructive surgery—by using 3D-printed molds to create fully functional, anatomically correct ears.
Canada Research Chairs (CRCs) are allocated every two years based on a university’s share of total Tri-Council funding over the three most recent years. Due to Ryerson’s continued Tri-Council funding success, the University was allotted an increase in the number of CRCs in 2014-15. CRCs are among the world’s most accomplished and promising researchers, making major contributions to the advancement of knowledge in engineering and the natural sciences, health sciences, humanities, and social sciences.

Through their research excellence, Ryerson’s CRCs are making a positive impact on the socio-economic well-being of Canadians and advancing their fields of study internationally.

In total, Ryerson has 19 CRCs and received $1.6 million in funding in 2014-15 for our CRC program based on our Tri-Council funding, which accounts for 3.6% of Ryerson’s total research funding.

In 2014-15, Roberto Botelho (Chemistry and Biology) was awarded a Tier II CRC in Biomedical Science and Technologies, and Julia Spaniol (Psychology) was awarded a Tier II CRC in Cognitive Aging.

Other active CRCs at Ryerson in 2014-15 include:

- **Joseph Chow** (Tier II, Transportation Systems Engineering)
- **Irene Gammel** (Tier I, Modern Literature and Culture)
- **Ling Guan** (Tier I, Multimedia and Computer Technology)
- **Michael Kolios** (Tier II, Biomedical Applications of Ultrasound)
- **Sridhar Krishnan** (Tier II, Biomedical Signal Analysis)
- **Krishna Kumar** (Tier II, Space Systems Engineering)
- **Guangjun Liu** (Tier II, Control Systems and Robotics)
- **Alexandra (Ali) Mazalek** (Tier II, Digital Media and Innovation)
- **Catherine Middleton** (Tier II, Communication Technologies in the Information Society)
- **Marcello Papini** (Tier II, Abrasive Jet Technology)
- **Souraya Sidani** (Tier I, Patient-Centered Health Interventions: Design and Evaluation)
- **Victor Yang** (Tier II, Bioengineering and Biophotonics)

Roberto Botelho (Chemistry and Biology) was awarded Canada Research Chair (Tier II) in Biomedical Science and Technologies for his work investigating how cell organelles acquire, maintain, or change their identities, which are defined by their specific set of traits. This remains one of the fundamental unanswered questions of biology. Botelho’s work could lead to new diagnostics and therapies for diseases that arise from organelle defects and has the potential to significantly impact the treatment of diabetes, cardiovascular illness, cancer, and neurodegenerative diseases.

Julia Spaniol (Psychology) was awarded Canada Research Chair (Tier II) in Cognitive Aging for her exploration of the behavioural and biological changes that accompany loss of brain function with age. Spaniol’s work will pave the way for the development of training regimens to enhance everyday cognitive performance in older adults. Her findings will also help inform the design of real-world settings (e.g., healthcare, finance, transportation) in which the reduced cognitive capacity of older adults often puts them at a disadvantage.
Ryerson received $6.7 million in research revenue from provincial agencies, representing a 52% increase and 15% of our total SRC funding. Ryerson was awarded Ontario Government funding from ministries such as the Ministry of Training, Colleges and Universities; the Ministry of Economic Development, Employment and Infrastructure; and the Ministry of the Environment; among others.

The Ontario Centres of Excellence (OCE) invested $1.8 million in funding in Ryerson to help create jobs and drive prosperity in the province through industry research and development collaborations, representing an increase over 2013-14. This funding supported projects like the Campus Linked Accelerator (CLA), which will be used to broaden the reach of entrepreneurial thinking and innovation across the university. Ryerson also received $205,000 from municipal agencies to address city-specific needs.

A total of $7.8 million from Federal non Tri-Council funding sources, such as Grand Challenges Canada and International Science and Technology Partnerships Canada, speak to Ryerson’s growing research reputation and the impact that our researchers are having on solving both domestic and international problems.

Rafik Loutfy (Mechanical and Industrial Engineering) was awarded an International Science and Technology Partnerships Canada grant from the Ontario-India Research Collaboration Fund to automate key processes related to railway track operations. With partners Bombardier Transportation, IIT Kanpur, and IAITO Infotech, Loutfy is creating TrackSafe, an integrated railway monitoring system that leverages information technologies such as RFID. This system will improve track-level operations by sending more accurate alerts to train drivers about the location of workers and analyzing the health of infrastructure to ensure proper maintenance.

Jason Nolan (Early Childhood Studies) was awarded a Grand Challenges Canada grant from the Stars in Global Health program, which will create a global network for adaptive design for children with cognitive and physical disabilities. Adaptive Design International will promote open-source adaptive designs for furniture using low-cost materials such as cardboard. Collaborating with researchers in Bolivia and Ghana, this project will produce and distribute prototypes that can be customized to meet the needs of children with disabilities.

Kathryn Underwood (Early Childhood Studies) is working in partnership with the County of Wellington, Ontario, which is funding a study on the experience of disability in early childhood education and child services in the province. Underwood is conducting interviews with families from rural, remote and urban communities to improve service in Wellington and other communities in Ontario.
Collaboration with government, industry and community partners is a vital part of Ryerson’s research and innovation strategy. With the support of industry contracts and matched funding programs, our researchers are developing innovative products and processes with partners that can be commercialized to enrich the world around us.

In 2014-15, Ryerson received $4 million from industry partners, including grants and contracts with business enterprises to undertake applied research projects. Ryerson attracted significant research investments from non-profit organizations and foundations, receiving an unprecedented 98% increase in funding from these groups. With contributions from partners such as Maytree and the J.W. McConnell Family Foundation, Ryerson’s total funding from other non-government sources was $10.6 million in 2014-15.

These partnerships not only support applied research and societal improvement, but also contribute to Canada’s HQP, helping to build the capacity of Ryerson’s graduate students through exposure to existing business challenges and research and development opportunities, empowering them to become the next generation of problem solvers and leaders.

Ebrahim Bagheri (Electrical and Computer Engineering) was awarded an NSERC Collaborative Research and Development grant to develop the next generation of customer relations software. Collaborating with industry partner ThinkCX, Bagheri is creating software that can identify emerging trends among different communities on platforms like Twitter and Facebook. The software will be able to predict the future needs and inclinations of users, which can be used by businesses to vastly improve the quality of their customer service.

Michael Kolios (Physics), with collaborators from Sunnybrook Hospital, was awarded a Terry Fox Research Institute grant from its New Frontiers Program to develop new imaging techniques that can be used to monitor and improve the efficacy of cancer treatments. Combining ultrasound and photoacoustic imaging into a single technique, Kolios is creating a new method for detecting resistance to cancer therapy. By reducing the time it takes to analyze treatments from weeks to hours, this research will help doctors customize chemotherapy to improve cancer survival rates.

Dérick Rousseau (Chemistry) received a research grant from Concept Capital Management to build upon his past work with the company to develop more efficient sunscreen with higher SPF efficacy using fewer harmful chemicals in the formula. By exploring how oil-soluble sunscreen can be incorporated into oleosomes—a natural delivery vehicle for various oil-soluble compounds—this research will result in better sun protection without the health hazards associated with present-day sunscreen products.

The Global Diversity Exchange (GDX) at Ted Rogers School of Management received funding from the J.W. McConnell Family Foundation and the Maytree Foundation to provide leadership and support for the DiverseCity onBoard project.

In a study conducted at Ryerson in 2009, it was determined that only 13% of leadership positions in the GTA were occupied by visible minorities as compared to a 49.5% share in the population. The DiverseCity onBoard project will work to bridge this diversity gap and will complement existing programs at the University, such as Cities of Migration, Hire Immigrants, and Flight and Freedom.
The Royal Society of Canada was established in 1882 to foster Canadian research, mentor up-and-coming artists and academics, and advise Canadians and their government on matters of public interest. This year, the Royal Society named the members of its inaugural College of New Scholars, Artists and Scientists, which will represent Canada’s emerging generation of multidisciplinary leaders in these fields. Three of Ryerson’s researchers were named to the College’s 2014 cohort.

**FACULTY AWARDS HIGHLIGHTS**

Ryerson researchers continue to be recognized for the positive impact of their SRC activity. Here are just a few examples of external honours and awards recognizing our accomplished faculty.

Ron Babin (Information Technology Management) received the Member of the Year award from the International Association of Outsourcing Professionals (IAOP).

Jean-Paul Boudreau (Psychology) was elected as one of eight new 2015 fellows to the Canadian Psychological Association, placing him among those who set new standards in the discipline.

Kathryn Church (Disability Studies) received the Ontario Confederation of University Faculty Association (OCUFA) Status of Women Committee’s Award of Distinction.

Catherine Frawee (Disability Studies), one of Ryerson’s professor emerita, has been named an Officer of the Order of Canada for her work with the Canadian Association for Community Living and the Council of Canadians with Disabilities.

Alan Fung (Mechanical and Industrial Engineering) received the 2014 Mitacs Award for Exceptional Leadership presented by the Honourable Ed Holder, Minister of State for Science and Technology.

Tom Griffin (Hospitality and Tourism Management) won the 2015 Travel and Tourism Research Association’s Peter W. Williams (PHD) Award for the Advancement of Multi-Disciplinary Tourism Research.

Sri Krishnan (Electrical and Computer Engineering) has been named a fellow of the Canadian Academy of Engineering, one of the highest academic honours for professional engineers in Canada.

Gil Lan (Law and Business) received the Hoeber Memorial Award for Outstanding Article from the Academy of Legal Studies in Business and Editorial Board of the American Business Law Journal.

David Naylor (Mechanical and Industrial Engineering) was honoured with a prestigious Engineering Medal for Research and Development presented by the Ontario Society of Professional Engineers (OSPE) and Professional Engineers Ontario (PEO).

Ruth Panofsky (English) received the PROSE Award for Literature from the American Publishers Awards for Professional and Scholarly Excellence for “The Collected Poems of Miriam Waddington: A Critical Edition”.

Vicki Van Wagner (Midwifery) received a Lifetime Achievement Award from the Association of Ontario Midwives for her important work in midwifery regulation, the formation of the Association, and her continued involvement in Ontario’s Midwifery Education Program.

Bin Wu (Electrical and Computer Engineering) was honoured with a prestigious Engineering Medal for Engineering Excellence presented by the Ontario Society of Professional Engineers (OSPE) and Professional Engineers Ontario (PEO).

**External Awards**

Alexandra Mazalek (Media) was named for her paradigm-shifting research that has brought the digital and physical realms closer together.

Catherine Middleton (Information Technology Management) was named for her work addressing the impact of emerging technologies on global tech policy.

Sepali Guruge (Nursing) was named for her internationally recognized studies on violence against women in Canadian immigrant communities.

As director of the Immigrant and Racialized Women’s Health Project, her recent work addresses the complex intersections of immigration, gender, violence, and health from a global health perspective. Over the last five years, she has worked on related projects with colleagues in Sri Lanka, Ethiopia, India, Brazil, the U.S., Belgium, Italy, and the U.K.

Catherine Middleton (Information Technology Management) was named for her work addressing the impact of emerging technologies on global tech policy.
Internal Awards

UNIVERSITY-WIDE SRC AWARDS

Each year, the Ryerson community recognizes its researchers at its SRC Awards Luncheon. These awards acknowledge the diversity and range of SRC activity at Ryerson and commend the many contributions of our renowned faculty in different areas and at the various stages of their careers. The following recipients were recognized in 2014-15:

The Sarwan Sahota Ryerson Distinguished Scholar Award is presented each year to a Ryerson faculty member who has made an outstanding contribution to knowledge or artistic creativity in their area(s) of expertise — either through a long term, cumulative contribution or a single, particularly insightful or seminal idea, experiment, application or interpretation.

In 2014-15, the Sarwan Sahota Award was presented to two researchers: Leslie Atkinson (Psychology) for his exploration of how behaviour and biology are transmitted across generations, and Krishna Kumar (Aerospace Engineering) for developing the systems and technologies necessary to create innovative miniature satellites, wireless sensors, and novel means of spacecraft control and formation flying.

The Collaborative Research Award was presented to Deborah Fels (Information Technology Management) for her research on inclusive design to create new technologies such as enhanced emotive captioning, audio description, and multisensory displays for television, film, theatre, and mixed reality experiences.

The Social Innovation and Action Research Award was presented to Andrew Millward (Geography), who works to protect and enhance urban forests through innovation and outreach, such as mobile tools that heighten the social responsibility we feel toward city trees.

The Knowledge Mobilization and Engagement Award was presented to Tara Collins (Child and Youth Care), a champion of children’s rights locally, nationally and globally who has worked hard to influence policymakers in Canada and beyond to uphold their commitments under the United Nations Convention of the Rights of the Child.

The Early Research Career Excellence Award was presented to Ebrahim Bagheri (Mechanical and Industrial Engineering) for striving to understand the underlying semantics of Big Data to build adaptive software systems that are able to self-reconfigure to changing environments and automatically react to undesirable situations.

DEANS’ SRC AWARDS

Individual faculty members are also recognized through the Deans’ SRC Awards for outstanding achievement in SRC activity, having made an impact within their disciplines during the previous academic year. The following are the recipients for 2014-15:

Faculty of Arts

Martin Antony (Psychology)
Amina Jamal (Sociology)
Eric de Noronha Vaz (Geography and Environment Studies)

Faculty of Communication and Design

Jeffrey Boase (Professional Communication)
Bruno Lessard (Image Arts)

Faculty of Community Services

Sepali Guruge (Nursing)
Jennifer Lapum (Nursing)
Raktim Mitra (Urban and Regional Planning)

Faculty of Engineering and Architectural Sciences

Habiba Bougherara (Mechanical and Industrial Engineering)
Sharareh Taghipour (Mechanical and Industrial Engineering)
Bo Tan (Aerospace Engineering)

Faculty of Science

Alexandre Douplik (Physics)
Marcos Escobar (Mathematics)

Ted Rogers School of Management

Rachel Dodds (Hospitality and Tourism Management)
Sari Graben (Law and Business)
INNOVATION, COMMERCIALIZATION & IMPACT

Ryerson SRC activity is leading the way in fuelling Canada’s economic, social and cultural development. Our focus on partnerships that support market-driven innovation has attracted international attention and has opened doors to new collaborations and opportunities. With this collaborative approach to innovation, Ryerson provides industry, government, and non-profit organizations with access to world-class expertise and facilities to improve businesses, policies, products and services.
FROM IDEA TO MARKETPLACE

34 INVENTION DISCLOSURES FILED IN 2014-15

Home to a number of leading interdisciplinary research centres, institutes and innovation zones, Ryerson offers its partners expertise and resources at every step of the journey from idea to marketplace. Identifying and commercializing inventions ultimately supports our mission to contribute to the societal and economic benefit of Canada.

Invention disclosures are a measure of the number of potentially commercializable inventions arising from a university’s research labs, and they comprise the first step in transferring research outcomes from the lab to the marketplace. The technologies and inventions that are described in disclosures are evaluated and protected with the goal of transferring the technologies into the marketplace through either licences or new company creation. In 2014-15, Ryerson researchers filed 34 invention disclosures, indicating the success of our added supports for faculty interested in commercializing their research.

Another way that Ryerson transfers knowledge is through collaboration with industry, non-profit, and government partners. Faculty and students are increasingly engaging with partners on innovative projects, from aircraft enhancements to ergonomics tools.

Colleen Carney (Psychology) led a multi-institutional research team in collaboration with insomnia experts and potential users to develop the Consensus Sleep Diary tool, which is being adopted as a new standard sleep diary in the field of insomnia research. While researchers can use the tool for free, commercial users such as pharmaceutical companies have been licensing the tool for a fee to conduct drug studies.

Mark Towler (Mechanical and Industrial Engineering) and his postdoctoral student Declan Curran filed a patent in July 2015 for a device and method to detect monosodium urate deposits in the human body, which can be analyzed to diagnose various medical conditions such as gout. This diagnostic innovation involves a simple external scan of a joint, replacing the current practice of withdrawing fluid from the joint using a long needle.

Jeff Xi (Aerospace) received an Ontario Aerospace R&TD Challenge grant from NSERC and the Ontario Centres of Excellence to design innovative aircraft cabin interiors. Partnering with Bombardier Aerospace, and with in-kind contributions from Christie Digital, Xi is experimenting with new seat designs for commercial aircraft as well as interior structure, adaptive panels, lighting techniques, and climate control to create designs that minimize the weight of aircraft while enhancing passenger comfort.
Ryerson provides support and unique opportunities for up-and-coming innovators while advancing economic development through spin-off companies and job creation.

At Ryerson, we celebrate entrepreneurial spirit. The University has a mandate to engage 10% of students in entrepreneurial learning and experiences. Students, faculty and researchers all embrace experiential learning and adopt entrepreneurial approaches to developing innovative products and processes that are competitive in the global landscape.

Ryerson received funding from the Federal Government’s Canada Accelerator and Incubator Program (CAIP) for the Zones of Incubation and Innovation Project – a national, research-driven incubator that will amplify the member universities’ existing facilities to create an expansive technology, company and job-creation ecosystem. More than 130 companies received support services that include mentorship, workshops and access to business networks through Ryerson’s CAIP funding.

The University also received funding from the Ministry of Economic Development, Employment and Infrastructure for its Social Enterprise Demonstration Fund (SEDF). This will support the creation of an accelerator and funding program to develop social enterprises in the GTA that address equity and diversity, sustainability, education, poverty, access to health, and other key issues, with a focus on under-represented groups and youth facing barriers.

Ryerson continues to build the entrepreneurial pipeline by hosting Ontario’s Summer Company Program that provides youth on their summer break with funding to initiate business ideas. Funded by the Ontario Ministry of Economic Development, Employment and Infrastructure, more than 50 youth aged 15-29 participated in 2014-15, an increase of 150% from 2013-14.

Ryerson is addressing real-world societal challenges by mainstreaming social innovation across the university to advance processes, products and services aimed at promoting social goals.

Ryerson is Canada’s first Changemaker Campus as designated by Ashoka, a global community of action that works to increase the impact of social ventures. Ryerson students and faculty continue to challenge societal norms and create initiatives, processes, companies, and action to address the needs of community, both locally and beyond.

In November 2014, Ryerson was the recipient of a RECODE Grant from the J.W. McConnell Family Foundation to support social innovation research, student-based social innovation activities, and seed funding towards social enterprises. In 2014-15, 7 Ryerson Faculty members and 14 students received funds to support their research and initiatives.

Ryerson’s ADaPT program is helping Social Sciences and Humanities (SSH) students excel in the labour market by providing them with advanced digital and professional skills, as well as internship opportunities to improve students’ employment prospects after graduation. Ryerson received additional funding in 2014-15 to expand the ADaPT program.

Ryerson research also benefited from private sector benefactors. The Brookfield Partners Foundation was among Ryerson’s most generous supporters in 2014-15, gifting the University with $13 million in support to create the Brookfield Institute for Innovation and Entrepreneurship at Ryerson, and to fund innovation projects across the University.
Ryerson’s publications and citations have continued to grow over the past year, once again revealing an upward trend in the University’s research impact. Two indicators of Ryerson’s successful knowledge mobilization performance are the total number of SRC publications produced by faculty members and the number of times they have been cited in other publications.

In 2014-15, Ryerson researchers produced 966 academic publications and our researchers were cited 10,302 times by other scholars.

NOTE: Academic publications include journal articles, conference papers and book reviews. SOURCE: Web of Science, Thompson Reuters as of October 30, 2015. Totals fluctuate as information is made available.

Idil Atak (Criminology) received a SSHRC Connection Grant to organize the 8th Annual Conference of the Canadian Association for Refugee and Forced Migration Studies (CARFMS) on “Advancing Protection and Fostering Belonging in a Global Era of the Criminalization of Migration”. The Conference addressed how Canada and other countries have resorted increasingly to criminal law measures to deter and punish migrants, especially irregular migrants, refugees, and other forced migrants.

Blake Fitzpatrick (Image Arts) received a SSHRC Connection Grant to organize a three-day symposium at Ryerson and Trent Universities. The symposium was structured around the concept of critical topography, or the way that we understand the relationships between “thought” and “place”: how thought ranges over place and how it invents place. Symposium panels covered a multidisciplinary range of topics, including residential schools in Canada, climate change, and civic participation.
SRC excellence is marked by more than just funding, partnerships, commercialization, and other economic performance metrics. Ryerson faculty are also committed to disseminating knowledge in both traditional and innovative new forms. The publication of books, the delivery of performances, exhibitions across a wide range of media, and journalistic activity are among the many pursuits of Ryerson’s faculty members. The following listings give an overview of just a few of the highlights.

### BOOKS

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<tr>
<th>Author/Department</th>
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<tbody>
<tr>
<td>Randy Boyagoda (English)</td>
<td>Richard John Neuhaus: A Life in the Public Square</td>
</tr>
<tr>
<td>Murray Pomerance (Sociology)</td>
<td>MARNIE</td>
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<tr>
<td>Alan Sears (Sociology)</td>
<td>The Next New Left: A History of the Future</td>
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<tr>
<td>Souraya Sidani (Nursing)</td>
<td>Health intervention research: Advances in research design and methods</td>
</tr>
<tr>
<td>Farzin Vejdani (History)</td>
<td>Making History in Iran: Education, Nationalism, and Print Culture</td>
</tr>
<tr>
<td>Henry Warwick (RTA School of Media)</td>
<td>Radical Tactics of the Offline Library</td>
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</table>

### CREATIVE WRITING

<table>
<thead>
<tr>
<th>Author/Department</th>
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<tbody>
<tr>
<td>Susan Cody (Professional Communications)</td>
<td>“Help My Mastiff (Not My Business)”</td>
</tr>
<tr>
<td>Kiaras Gharabaghi (Child &amp; Youth Care)</td>
<td>Apps for the postmodern child and youth care practitioner</td>
</tr>
<tr>
<td>Thomas Heise (English)</td>
<td>The Disquieting Muses</td>
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### EXHIBITIONS, INSTALLATIONS AND PERFORMANCES

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<th>Author/Department</th>
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<tr>
<td>Ramona Pringle (RTA School of Media)</td>
<td>Avatar Secrets Installation</td>
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<td>Nina-Marie Lister (Urban &amp; Regional Planning)</td>
<td>XING: (Re)Connecting Landscapes (2)</td>
</tr>
<tr>
<td>Peggy Shannon (Theatre)</td>
<td>Suppliant Women</td>
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<tr>
<td>Don Snyder (Image Arts)</td>
<td>60 Years of Marlboro Music: The Early Years</td>
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<tr>
<td>Samantha Wehbi (Social Work)</td>
<td>Everyday Activists</td>
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### FILM AND VIDEO

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<th>Author/Department</th>
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<tbody>
<tr>
<td>Gerda Cammaer (Image Arts)</td>
<td>The B-Film Keeper</td>
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<tr>
<td>Lynn Lavallée (Social Work)</td>
<td>Telling A Different Story</td>
</tr>
<tr>
<td>Joseph Medaglia (Fashion)</td>
<td>The Body of Others</td>
</tr>
<tr>
<td>Sean Wise (Entrepreneurship and Strategy)</td>
<td>The Naked Entrepreneur</td>
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</tbody>
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### JOURNALISM

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<tr>
<th>Author/Department</th>
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<tbody>
<tr>
<td>Kamal Al-Solaylee (Journalism)</td>
<td>Yemen Runs Through My Veins</td>
</tr>
<tr>
<td>Tony Burman (Journalism)</td>
<td>World yawns as Syria enters the dark ages: Burman</td>
</tr>
<tr>
<td>Hayden King (Politics and Public Administration)</td>
<td>Hayden King: First Nations crisis is about land. We need a new settlement</td>
</tr>
<tr>
<td>Chris MacDonald (Law and Business)</td>
<td>Canada should follow New York’s crackdown on bogus herbal remedies</td>
</tr>
</tbody>
</table>
SELECT CENTRES & INSTITUTES

Working closely with local and international partners, Ryerson’s Centres and Institutes contribute to research across a wide range of disciplines, from innovations in 3D printing, to the development of sustainable urban infrastructure, to the exploration of law and justice in today’s society. We have established several new centres in the past year to advance Ryerson’s position as a leader in applied research in Canada. These new centres and institutes include the Centre for Communicating Knowledge (CCK) (Faculty of Communication and Design), which provides support to researchers and institutions for knowledge mobilization and scholarly communication; the City Building Institute (Faculty of Community Services), bringing together multidisciplinary perspectives to address critical urban problems; and Ryerson Urban Water (RUW) Centre (Faculty of Science), supporting healthy urban water while promoting innovation in water education.

Other centres and institutes at Ryerson include but are not limited to:

### UNIVERSITY-BASED CENTRES AND INSTITUTES
- Centre for the Study of Commercial Activity (CSCA)
- Law Research Centre
- Ryerson Centre for Immigration and Settlement (RCIS)

### FACULTY OF ARTS
- Centre for Digital Humanities (CDH)
- Centre for Indigenous Governance
- Institute for Stress and Wellbeing Research
- Modern Literature and Culture Research Centre (MLC)
- Psychology Research and Training Centre (PRTC)

### FACULTY OF COMMUNICATION AND DESIGN
- Centre for Communicating Knowledge (CCK)
- Documentary Media Research Centre (DMRC)
- Print Media Research Centre (PMRC)
- Ryerson Journalism Research Centre
- RTA Transmedia Centre

### FACULTY OF COMMUNITY SERVICES
- Centre for the Advancement of the Scholarship of Teaching & Learning (CASTL)
- Centre for Global Health and Health Equity
- Centre for Health in at Risk Populations (CHIRP)
- Centre for Studies in Food Security
- Centre for Urban Research and Land Development (CUR)
- City Building Institute
- Ryerson Centre for Children, Youth and Families

### FACULTY OF ENGINEERING AND ARCHITECTURAL SCIENCE
- Centre for Engineering Innovation & Entrepreneurship (CEIE)
- Centre for Urban Energy (CUE)
- Institute for Biomedical Engineering, Science and Technology (iBEST) with St. Michael’s Hospital and Faculty of Science
- Ryerson Institute for Aerospace Design and Innovation (RIADI)
- Ryerson Institute for Infrastructure Innovation (RIII)

### FACULTY OF SCIENCE
- Institute for Biomedical Engineering, Science and Technology (iBEST) with St. Michael’s Hospital and Faculty of Engineering and Architectural Science
- Privacy and Big Data Institute
- Ryerson Urban Water (RUW) Centre

### TED ROGERS SCHOOL OF MANAGEMENT
- Canada-China Institute for Business & Development (CCIBD)
- Centre for Labour Management Relations (CLMR)
- Centre for Voluntary Sector Studies (CVSS)
- Diversity Institute (DI) and Global Diversity Exchange (GDX)
- Entrepreneurship Research Institute (ERI)
- Inclusive Media and Design Centre (IMDC)
- Institute for Innovation and Technology Management (IITM)
- Institute for the Study of Corporate Social Responsibility
- Privacy and Cyber Crime Institute
- Social Media Lab
- Ted Rogers Institute for Hospitality and Tourism Research
- Ted Rogers Leadership Centre

### INNOVATION CENTRES
- Incubate Innovate Network of Canada (I-INC)
- Ryerson Centre for Cloud and Context-Aware Computing (RC4)
Ryerson is working with government, communities and industry to develop the next generation of highly qualified personnel (HQP) into future leaders in the private, public, and non-profit sectors.

We continue to attract top students who have chosen Ryerson for its experiential learning model. The University partners with government and industry to create meaningful experiences within our student research programs. Graduate students are expanding their research capacity under field experts and industry leaders, while our partner organizations gain from the valuable knowledge transfer that comes from student placements.

The University’s innovative approach to education is ensuring that our students gain critical thinking, analytical, and practical skills that prepare them for future pursuits in research, entrepreneurship, or employment.

Mitacs is a non-profit organization that works with governments and universities across the country to develop research and training programs for industrial/social innovation, creating opportunities for graduate and post-doctoral fellows.

Connect Canada is the internship program managed by AUTO21 Inc., an organization that actively engages Canada’s automotive sector in applied automotive R&D. They have created a national community of researchers who partner with automakers, parts and materials suppliers, and public sector organizations to support hands-on learning for students.

TalentEdge, administered by the Ontario Centres of Excellence (OCE), is a program that provides Ontario students and recent graduates with real-world experience working on collaborative industry-driven projects and is an integral component of Ontario’s Youth Jobs Strategy.

Ryerson University is committed to building our students’ capacity in research and innovation through their involvement in SRC projects. The following is a sample of some of the SRC awards and grants received by Ryerson students in 2014-15.

Molecular Science Master’s student Omar Abdi won the award for best presentation in Material Science at the 2014 Chemical Society of Canada conference in Vancouver, for his presentation titled “Synthesis and characterization of novel biochromic and bipedal dyes for dye-sensitized solar cells.”

Molecular Science Master’s student Monica Dayam was awarded the Federation of American Societies for Experimental Biology (FASEB) science conference, presenting “The role of PIKfyve in macrophages: Effect on phagosome maturation and endosomal system.”

Hospitality and Tourism Management student Quincia Gumbs received the Baxter Travel Media’s annual Responsible Travel and Tourism Forum Student Leadership Award, which recognizes the efforts of the next generation of travel professionals.


MBA Global Management student Cara Kwok won the Best Paper Award in the Health Care Management Division of the 2015 Administrative Sciences Association of Canada (ASAC) Conference in Halifax.

Social Work graduate Teriano Lesancha received the YWCA Young Woman of Distinction Award for her role in transforming the lives of young girls and women around the world.

Psychology graduate students Jenny J.W. Liu, Vivian Huang and Katlyn Peck won Best Symposium Award for their presentation, “The complex role of emotion in stress: A discussion of multiple approaches to understanding their relationship(s),” at the Psychology Outside the Box Conference.

A recent graduate of the Ryerson Public Administration and Governance program offered in partnership with the First Nations Technical Institute, Athena Bedassigae-Pheasant, won the Hydro One Award. She has previously worked in the justice sector at the Chiefs of Ontario secretariat.

Social Work graduate Jake Pyne is one of the 14 recipients of the prestigious Pierre Elliott Trudeau Foundation’s 2014 Trudeau Scholarship to help him establish ways to support the parents, caregivers and health providers of transgender youth during their gender transition.
INTERNATIONAL ENGAGEMENT

- 237 INBOUND EXCHANGE STUDENTS FROM PARTNER INSTITUTIONS
- 217 OUTBOUND EXCHANGE STUDENTS FROM RYERSON
- 141 INTERNATIONAL PARTNERS ACROSS 36 COUNTRIES
Growing Global Networks

Ryerson’s reputation for entrepreneurship and innovation has been instrumental in forming new partnerships in 2014-15. Ryerson’s Internationalization Framework continues to engage countries of strategic importance to the University and to support the interests of students, faculty and other researchers. We continue to build on relationships with our partners, collaborating with 141 international partners in 36 countries around the globe, including 18 new institutional agreements that were signed in 2014-15.

International collaboration contributes to Ryerson’s global recognition, SRC capacity and new experiential learning opportunities for students.

In June 2014, Ryerson welcomed an 11-person delegation from The Association of Southeast Asian Nations (ASEAN) — including the Indonesian Minister of Trade, the Cambodian Minister of Commerce, and the Laotian Minister of Industry — accompanied by the Honourable Minister Edward Fast (Canadian Federal Minister of Trade) to visit the Centre for Urban Energy (CUE) as an example of effective academic-industry partnerships.

This year, Ryerson announced a groundbreaking collaboration with the Bombay Stock Exchange Institute and the University of the Witwatersrand. This tripartite partnership will facilitate the global expansion of start-up companies from the DMZ, Zone StartUps India, and the Witwatersrand Tech Zone into new markets through joint ventures and soft landing programs, contributing to economic development in all three regions.

In 2014-15, Ryerson students from a range of academic areas and teams from the MBA and Architecture programs presented their research at international conferences, achieving impressive results at prestigious international competitions.

An increasing number of faculty and students from other institutions are gaining insights from working with our researchers across disciplines. The University welcomed 80 research students and scholars in 2014-15.

Graduate students are contributing to Ryerson’s profile in research excellence across the globe. In 2014-15, Ryerson students from a range of academic areas and teams from the MBA and Architecture programs presented their research at international conferences, achieving impressive results at prestigious international competitions.

Andrea Bellucci, a postdoctoral researcher at Universidad Carlos III in Madrid, spent seven months at Ryerson alongside Alexandra (Ali) Mazalek (Media) working with students and other postdocs on the research and design of tools that support cross-device/cross-platform development for physical/digital environments and applications.

Alejandra Culebro, a PhD Candidate from the University of Helsinki, spent three months at Ryerson working with Warren Wakarchuk (Chemistry and Biology), taking advantage of his expertise in GT-42 enzymes for inclusion in her PhD thesis, which led to a joint publication in a peer-reviewed journal.

David Colangelo, PhD student in Communication and Culture, presented two of his research-creation projects: In The Air Tonight, a project created for the LED facade of the Ryerson Image Arts Centre in Toronto, and E-TOWER, a project created for Toronto’s CN Tower at the Media Architecture Biennale in Aarhus, Norway in October 2014.


Samira Zare Mohazabieh, MSc student in Biomedical Physics, presented her work on brain imaging using hyperspectral near-infrared spectroscopy at the SPIE Bios Conference in San Francisco, California in February 2015.
The Ryerson Research Ethics Board (REB) supports the advancement of our research programs by ensuring that researchers are informed of research ethics policies and are in compliance with federal guidelines. The REB’s review activities have increased as a result of the increased scope and complexity of research projects undertaken by Ryerson researchers.

RYERSON ETHICS BOARD MEMBERS 2014-15
Lynn Lavallée, Chair
Toni Fletcher, Research Ethics Coordinator (staff, non-voting)
Zakiya Atcha, Research Ethics Assistant Coordinator (staff, non-voting)
Patrizia Albanese, Yeates School of Graduate Studies
Stephen Want, Yeates School of Graduate Studies
Maureen Reed, Yeates School of Graduate Studies
Alexandra Fiocco, Faculty of Arts
Melanie Knight, Faculty of Arts
Bernie Murray, Faculty of Communication and Design
Joanne DiNova, Faculty of Communication and Design (aboriginal expertise)
Kristyn Scott, Ted Rogers School of Management
Asher Alkoby, Ted Rogers School of Management (legal expertise)
Sari Graben, Ted Rogers School of Management (legal expertise)
Chris MacDonald, Ted Rogers School of Management (ethics expertise)
Lori Schindel Martin, Faculty of Community Services
Calvin Langton, Faculty of Community Services
Raffi Karshafian, Faculty of Science
To be announced, Faculty of Engineering and Architectural Science

COMMUNITY MEMBERS
Brent Guilliard, Community Member (Urban Planner)
Scott Gavura, Community Member (Pharmacologist)
Dionisio Nyaga, Community Member (Social Work) (indigenous expertise)
Zakiya Atcha, Community Member (Social Work)

STUDENT MEMBERS
Amy Brown Bowers, Graduate Student
Sean Hillier, Graduate Student
Betina Borova, Undergraduate Student
Nazanin Ayon, Undergraduate Student
Joy Miclat, Undergraduate Student

The Scholarly, Research and Creative (SRC) Activity Advisory Committee is the leading venue for discussion, advice and guidance on the strategic research issues and directions of Ryerson University. On behalf of the research enterprises across Ryerson, the SRC Activity Advisory Committee addresses all aspects of SRC activities including basic and applied research, knowledge translation, commercialization and industry. Members of the SRC Activity Advisory Committee also serve on the SRC Activity Standing Committee of the Senate.

Wendy Cukier
Vice-President, Research and Innovation

Anthony Bonato
Associate Dean, Yeates School of Graduate Studies

Gillian Byrne
Associate Chief Librarian

Charles Davis
Associate Dean, Faculty of Communication and Design

Michael Kolios
Associate Dean, Faculty of Science

Sri Krishnan
Associate Dean, Faculty of Engineering and Architectural Science

Janet Lum
Associate Dean, Faculty of Arts

Kelly MacKay
Associate Dean, Ted Rogers School of Management

Janice Waddell
Associate Dean, Faculty of Community Services
<table>
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<tr>
<th>Collaborative Research and Development Grants</th>
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<tbody>
<tr>
<td><strong>Ebrahim Bagheri (Electrical and Computer Engineering)</strong></td>
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<tr>
<td><strong>Frank Russo (Psychology)</strong></td>
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<td><strong>Fengfeng (Jeff) Xi (Aerospace Engineering)</strong></td>
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<tr>
<td><strong>Dewei (David) Xu (Electrical and Computer Engineering)</strong></td>
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<tr>
<td><strong>Ling Guan (Electrical and Computer Engineering)</strong></td>
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<th>Discovery Grants</th>
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<tr>
<td><strong>Ling Guan (Electrical and Computer Engineering)</strong></td>
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<td><strong>Sridhar Krishnan (Electrical and Computer Engineering)</strong></td>
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<td><strong>Jelena Misic (Computer Science)</strong></td>
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<td><strong>Robert Botelho (Chemistry and Biology)</strong></td>
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<td><strong>Said Easa (Civil Engineering)</strong></td>
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<td><strong>Jeffrey Fillingham (Chemistry and Biology)</strong></td>
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<td><strong>Joseph McPhae (Chemistry and Biology)</strong></td>
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<td><strong>Sarah Sabatinos (Chemistry and Biology)</strong></td>
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<td><strong>Xiao-Ping Zhang (Electrical and Computer Engineering)</strong></td>
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<tr>
<td><strong>Ebrahim Bagheri (Electrical and Computer Engineering)</strong></td>
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<td><strong>Alexandra Mazalek (RTA School of Media)</strong></td>
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<td><strong>Fengfeng (Jeff) Xi (Aerospace Engineering)</strong></td>
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<td><strong>Deborah Feld (Information Technology Management)</strong></td>
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<td><strong>Mohamed Jabbar (Mechanical and Industrial Engineering)</strong></td>
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<td><strong>John Enright (Aerospace Engineering)</strong></td>
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<td><strong>Zouheir Fawaz (Aerospace Engineering)</strong></td>
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<td><strong>Stephanie Melles (Chemistry and Biology)</strong></td>
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<td><strong>Vojislav Misic (Computer Science)</strong></td>
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<td><strong>Ziad Saghir (Mechanical and Industrial Engineering)</strong></td>
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<td><strong>Dewei (David) Xu (Electrical and Computer Engineering)</strong></td>
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<td><strong>Olivia Diao (Electrical and Computer Engineering)</strong></td>
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<td><strong>Mikhail Svitulanski (Computer Science)</strong></td>
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<td><strong>Ahmed Abdulrahman (Civil Engineering)</strong></td>
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<td><strong>Raffi Kaneshian (Physics)</strong></td>
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<td><strong>Karthikyan Umapathy (Electrical and Computer Engineering)</strong></td>
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<td><strong>Shudong Yu (Mechanical and Industrial Engineering)</strong></td>
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<td><strong>Janet Koprinikar (Chemistry and Biology)</strong></td>
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<td><strong>Anthony Bonato (Mathematics)</strong></td>
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<td><strong>Robert Gossage (Chemistry and Biology)</strong></td>
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<td><strong>Hehsham Marzouk (Civil Engineering)</strong></td>
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<tr>
<td><strong>Other NSERC Discovery grants were also received by the following faculty members:</strong> Chen (Cherie) Ding (Computer Science), Said Easa (Civil Engineering), Silvane Ilie (Mathematics), Andriy Miransky (Computer Science), Stephen Waldman (Chemical Engineering).</td>
</tr>
</tbody>
</table>
NSERC Engage grants were received by the following faculty members: Ahmed Abdelrahman (Civil Engineering), Alagum Anpalagan (Electrical and Computer Engineering), Ebrahim Baghei (Electrical and Computer Engineering), Sosan Beheshti (Electrical and Computer Engineering), Ayas Bener (Mechanical and Industrial Engineering), Ying Jiong (Joseph) Choo (Civil Engineering), Jason Chung (Aerospace Engineering), Konstantinos Derpanis (Computer Science), Alexandre Douplik (Physics), Seth Dworkin (Mechanical and Industrial Engineering), Xavier Fernando (Electrical and Computer Engineering), Alexander Fernow (Computer Science), Alan Fung (Mechanical and Industrial Engineering), Mark Gorgolewski (Architectural Science), Ling Guan (Electrical and Computer Engineering), Martina Haumer (Chemistry and Biology), Suyun He (Mechanical and Industrial Engineering), Khondaker (Anwar) Hossain (Civil Engineering), Danko Iokomovic (Civil Engineering), Mohammed (Reza) Kianzad (Civil Engineering), Farkhul Janabi-Shari (Mechanical and Industrial Engineering), Guang Jun Liu (Aerospace Engineering), Jinyun Liu (Civil Engineering), Ali Naeini (Computer Science), Fanarzeh Mohammad (Electrical and Computer Engineering), David Naylor (Mechanical and Industrial Engineering), Pawel Piatet (Mathematics), Kaamran Rastamifar (Electrical and Computer Engineering), Russell Ritchman (Architectural Science), Anton de Ruiter (Aerospace Engineering), Khadeel Sameen (Civil Engineering), Mehmet Shehat (Civil Engineering), James Smith (Electrical and Computer Engineering), Sharanesh Taghipoor (Mechanical and Industrial Engineering), Vladislav Toronov (Physics), Scott Tai (Mechanical and Industrial Engineering), Ahmad Vaezian Farahani (Mechanical and Industrial Engineering), Warren Wakenhut (Chemistry and Biology), Fengfeng (Jeff) Xi (Aerospace Engineering), Fei Yuan (Electrical and Computer Engineering), Lian Zhao (Electrical and Computer Engineering).

Other NSERC Grant Recipients

Other NSERC grants were also received by the following faculty members: Liping Fang (Mechanical and Industrial Engineering), Bryan Kosivato (Chemistry and Biology), Farkhul Janabi-Shari (Mechanical and Industrial Engineering), Hua Lu (Mechanical and Industrial Engineering), Frank Russo (Psychology), Balaabramaniam Venkatesh (Electrical and Computer Engineering).

SOCIAL SCIENCES AND HUMANITIES RESEARCH COUNCIL OF CANADA

Insight Grants

Catherine Middleton (Information Technology Management)  
Digital Canada: Understanding Canada’s infrastructure and literacy needs for engagement in digital society  $210,139

Becky Chima (Psychology)  
Ideological beliefs and differential distress: Threat target as a moderator  $175,491

Ivor Shapiro (Journalism)  
Mapping the professional orientation of Canadian Journalists  $136,328

Paul Moore (Sociology)  
Circuits of Cinema: Itinerant Showmanship in North America, 1895 to 1907  $105,657

Partnership Development Grants

Kathryn Underwood (Early Childhood Studies)  
Indusive Early Childhood Service System Project  $199,855

Kiaras Garabedian (Child and Youth Care)  
Learning as Intervention  $189,908

Jennifer Martin (Child and Youth Care)  
Child Sexual Abuse Images Online: Identifying and Addressing Knowledge Gaps and Multilevel Barriers to Cross-sectoral Responses  $142,707

Insight Development grants were received by the following faculty members: Ben Barry (Fashion), Rachel Berman (Early Childhood Studies), Calvin Langton (Fashion), Jennifer Martin (Psychology), Paul Moore (Sociology), Catherine Middlebrook (Information Technology Management), Zuzana Rosenburg-Knager (Health Services Management), Josephine Wong (Nursing), Wendy Cukier (Information Technology Management), Blake Fitpatrick (Image Arts), Elizabeth McCoy (Nursing), Paul Moore (Sociology), Ivor Shapiro (Journalism), Becky Chima (Psychology), Paul Moore (Sociology), and Jennifer Martin (Child and Youth Care).

Other SSHRC Grant Recipients

Other SSHRC grants were also received by the following faculty members: Wendy Cukier (Information Technology Management), Henry Parada (Social Work), Janice Waddell (Nursing).

CANADIAN INSTITUTES OF HEALTH RESEARCH

Team Grants

Trevor Hart (Psychology)  
** HIV Prevention for Gay and Bisexual Men: A Multisite Study and Development of New HIV Prevention Interventions  $1,500,000

Josephine Wong (Nursing)  
Reducing HIV vulnerabilities and Promoting Resilience among self-identified heterosexual African, Caribbean and Black Men in Ontario  $1,499,925

*In partnership with Canadian Foundation for AIDS Research

Operating Grants

Candice Morison (Psychology)  
A comparison of the effects of internet-based strategies to support mental health clinicians’ use of an effective psychotherapy for post-traumatic stress disorder  $728,496

Stephen Waldman (Chemical Engineering)  
Tissue engineering of auricular cartilage implants for external ear reconstruction  $339,992

Zahava Rosenberg-Knager (Health Services Management)  
Development and Assessment of an Instrument for Evaluating Public and Patient Involvement in Resource Allocation Decisions  $161,980

CANADA RESEARCH CHAIRS

Robert Botelho (Chemistry and Biology)  
Tier 2 Canada Research Chair in Biomedical Science and Technologies  $500,000

Julia Sparen (Psychology)  
Tier 2 Canada Research Chair in Cognitive Aging  $500,000

OTHER FEDERAL GOVERNMENT

Grand Challenges Canada – Stars in Global Health

Jason Nolan (Early Childhood Studies)  
Adaptive Design International: a global social network for the construction of low-cost custom adaptations for children with disabilities  $112,000

NCE: AUTO21 Inc. Connect Canada Internships

NCE: AUTO21 Inc. grants were received by the following faculty members: Sosan Beheshti (Electrical and Computer Engineering), Nick Bellasimos (School of Nutrition), Daolin Chen, (Mechanical and Industrial Engineering), Alan Fung (Mechanical and Industrial Engineering), Atiz Guargac (Information Technology Management), Farkhul Janabi-Shari (Mechanical and Industrial Engineering), Lev Kiraschian (Electrical and Computer Engineering), Matthew Kyan (Electrical and Computer Engineering), Songnian Li (Civil Engineering), Rahmat Lashkari (Mechanical and Industrial Engineering), Patrick Neumann (Mechanical and Industrial Engineering), Russell Ritchman (Architectural Science), Medhat Shehatia (Civil Engineering), Philip Walsh (Management and Entrepreneurship), Bin Wu (Electrical and Computer Engineering).
Other Federal Government Grants

Other federal government grants were also received by the following faculty members: Tuna Baskoy (Politics and Public Administration), Daesun Chen (Mechanical and Industrial Engineering), Patrice Dutil (Politics and Public Administration), Deborah Fells (Information Technology Management), Judy Finlay (Child and Youth Care), George Kapelos (Architectural Science), Janet Koprivnikar (Chemistry and Biology), Andrew Millear (Geography), Madhura Mitu Sengupta (Politics and Public Administration), Ratna Omidvar (Ted Rogers School of Management).

ONTARIO GOVERNMENT & MUNICIPAL GOVERNMENTS

Ontario Centres of Excellence – Ontario Aerospace R&D Challenge

- Fengheng (Jeff) Xu (Aerospace Engineering): Modular Reconfigurable Aircraft Cabin Interiors $110,000
- Dewei (David) Xu (Electrical and Computer Engineering): Advanced Thermal Management Technologies for the Next Generation Aerospace Power Converters $80,000

Other OCE grants were also received by the following faculty members: Mohammad Abdoli-Eramaki (Occupational and Public Health), Abdolreza Abhari (Computer Science), Ron Babin (Information Technology Management), Sossan Behehti (Electrical and Computer Engineering), Ying Jun (Joseph) Zhou (Civil Engineering), Linyin Dong (Information Technology Management), Alen Fung (Mechanical and Industrial Engineering), Mohammad (Reza) Kianouch (Civil Engineering), Matthew Khan (Electrical and Computer Engineering), Songnan Li (Civil Engineering), Rafik Loufy (Mechanical and Industrial Engineering), Ali Min (Computer Science), Patrick Neumann (Mechanical and Industrial Engineering), Paolo Pratali (Mathematics), Kaaren Rahemfar (Electrical and Computer Engineering), Rami Ramakrishnan (Architectural Science), Detrik Rousseau (Chemistry and Biology), Ziad Saghir (Mechanical and Industrial Engineering), Medhat Shehata (Civil Engineering), Lian Zhao (Electrical and Computer Engineering).

Other Ontario Government Grant Recipients

Other Ontario government grants were also received by the following faculty members: Ministry of the Environment — Michael Arts (Chemistry and Biology), Rachel Orlofski (Hospitality and Tourism Management), Lynda McCarthy (Chemistry and Biology); Ministry of Research and Innovation — Bryan Koivisto (Chemical and Biological Engineering), Medhat Shehata (Civil Engineering), Ziad Saghir (Mechanical and Industrial Engineering), Medhat Shehata (Civil Engineering), Lian Zhao (Electrical and Computer Engineering).

Municipal Grants

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J.W. McConnell Family Foundation

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Maytree Foundation

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