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I am particularly excited to read NETWORK 2018 and recall all the accomplishments of the students, staff and faculty of our Faculty of Architecture in 2017/18. This last academic year was certainly exciting, but also very intense with many endeavours undertaken to maintain and expand the outstanding calibre of our programs. In thinking about 2017/18, I feel both gratified in all that was accomplished, and exhausted from the energy that it consumed. But, as the fruits of our labour ripen, our energy levels are re-charged and we will continue with initiatives that support all the endeavours of the Faculty.

Likely paramount in terms of maintaining the outstanding calibre of our programs was the successful completion in 2017/18 of Professional Accreditation reviews of the Master’s degrees in the Departments of Architecture and Interior Design. Both programs were granted accreditation for six-year terms, the maximum possible. The accreditation reports for both programs contain many insightful comments; among the most valuable to me were comments about our students who were described as “very engaged and enthusiastic” and having “a high level of passion, dedication, maturity, and thoughtful decision making”. While these comments reaffirm what we already knew, they are a reminder that students are the foundation for our Faculty, and having students with these attributes certainly gives us the robust foundation needed to deliver outstanding design and planning programs. The success of these accreditation reviews was due to the extended effort of a significant team from within each program and the Faculty support staff. One visible indication of this effort was the transformation of room 225 in the Architecture2 building into an outstanding exhibition of first, Interior Design student work, and then almost immediately following, Architecture student work.

A third transformation of room 225, and indeed all the studios and classrooms, coincided with the Year-End Exhibition in April. In addition to the impressive showcase of student work, at this Year End Exhibition many former Senior Sticks joined this year’s Senior Stick, Mackenzie Swope, to dedicate a stick-of-office that represents the authority of the Senior Stick. As described in this NETWORK, in true Faculty of Architecture tradition, this stick-of-office appropriately does not look like any sort of stick!
And yet another transformation ... throughout the 2017 / 18 intensive planning for renovation and refurbishment of the studio spaces in Architecture2 occurred with the physical work occurring during the summer of 2018 in anticipation of the 2018 / 19 academic year. I believe this renovation and refurbishment, funded by the University's Learning Space Renewal program, will provide students in Architecture2 with if not the best, certainly among the best, studio facilities of any design program. Thanks goes to a large team that contributed to the design and execution of these renovations, but a special shout out to Dr. Eduardo Aquino who has been central to this entire project. The Architecture 2 studio renovation and refurbishment will enhance what is described in one of the accreditation reports as “an exceptional learning environment.” This exceptional environment included in 2017 / 18 a pilot Virtual Reality facility and based on its success a joint Architecture / Engineering virtual reality facility will become available in the Stanley Pauley Engineering Building slated for completion near the end of 2018. Additionally, through 2017 / 18 C.A.S.T. continued to become an increasingly important dimension to Faculty endeavours with a successful Researcher-in-Residence program and the fabrication of major student designs including again the Faculty entry for the Warming Huts competition and the UMCycle facilities. The unique C.A.S.T. and Virtual Reality facilities combined with FABLab, CADLab, and Workshop provide Faculty of Architecture students with a full range of facilities to make their designs a reality in all forms and scales. The accreditation outcomes and facility improvements of this last year are matched by the introduction of several academic enhancements. In the last year, a Cooperative Education / Integrated Work Program was developed, approved and introduced. As highlighted elsewhere in NETWORK the first students were accepted into work placements during the summer of 2018 and plans are in hand to expand this program in 2019. Thanks go to Associate Dean (Research) Dr. Lisa Landrum, Brandy O’Reilly and Corrine Klekta for guiding this program to a successful introduction. Additionally, a series of changes to the curriculum of the first two years of the Bachelor of Environmental Design program were approved in 2017 / 18 and are being introduced during the 2018 / 19 academic year, all designed to provide students with enhanced foundational knowledge and improved preparation for the upper years of the Environmental Design program. Credit goes to Associate Dean (Academic) Karen Wilson Baptist, with assistance from Carrie Johnson, for shepherding these changes through multiple approval stages and overseeing their introduction.

““The Architecture 2 studio renovation will enhance our exceptional learning environment.”

Central to the success of the Faculty of Architecture are people, and throughout the last year many people in the Faculty served on hiring committees to identify five new faculty hires. As a result of their careful deliberations, through the summer of 2018 we are pleased to welcome as new faculty members: Shawn Bailey, Indigenous Scholar and Assistant Professor, Department of Architecture, Sarah Cooper, Assistant Professor, Department of City Planning, Katherine Isaac, Instructor, Environmental Design Program and Department of Interior Design, Kurt Espersen-Peters, Assistant Professor, Department of Interior Design, and Kamni Gill, Assistant Professor, Department of Landscape Architecture. I am sure I speak for everyone in the Faculty by welcoming them aboard and looking forward to their contributions to our Faculty for many years and decades to come.

For over 100 years the Faculty of Architecture at the University of Manitoba has always been recognized for its leadership and innovation in design and planning education. Many individuals have contributed to this leadership and in 2018 one of these, Richard G. Henriquez was recognized by the University of Manitoba through the awarding of an Honorary Doctor of Letters (Honoris Causa). Through a lifetime of architectural innovation Mr. Henriquez has made, and continues to make, a profound influence on the character of Vancouver. The Faculty remains proud of these contributions throughout our history, while concurrently driving forward to ensure that programs offer students an education and opportunities that prepare them for the design and planning challenges of the 2020’s and beyond. I am confident that this NETWORK demonstrates that in 2017 / 18 the Faculty remained successful in this drive forward.
June 1 is a fortuitous day to commence this task. We find ourselves at the beginning of the 6th month of the year, the summer solstice a mere 21 days away, following which daylight hours will slowly diminish, minute by minute, day by day. This was a strange spring, with a long drawn out cold patch – a purgatory of sorts – followed by a burst of extremely hot weather. One must be cognizant of the fleeting nature of high spring particularly of its olfactory delights. In the forest, the wild plums with their soapy scent are first to perfume the air, followed by the cranberries and chokecherries. In the domestic garden, the Forsythia is first to arrive - splendid butter-yellow blossoms adorn the bare branches like tiny Lepidopterans. One is invited to gather a clutch of Lily of Valley, and a cluster of Lilac and bring them inside. Now my home is a garden too, scented with the heady fragrances of spring.

In 1975, the educational philosopher Herbert Kliebard advanced three metaphors to describe the milieu of curriculum – production, travel and growth. The notion of production describes educational practices that emphasize predictable outcomes, efficiency and the effective deployment of resources. Curriculum based on the metaphor of travel imagines education as a journey – a voyage of discovery that is “as rich, as fascinating, and as memorable as possible”.1 The metaphor that I gravitate to, and that I find to be most generative, is the metaphor of growth. In this conceptualization, the educator acts as gardener, taking responsibility for the development of each plant according to specific individualized needs.

In the Environmental Design program, a team of dedicated faculty, instructors, teaching assistants and grader / markers are responsible for cultivating growth in the Foundation Years (ED1 and ED2) and initiating the induction of beginning design students to the elements, ethos and the practices of critical thinking and making essential to design culture.

In the 2017-2018 academic term, Scott Barham, Honoure Black, Chad Connery, Darcy Granove, John Harper, Katherine Isaac, Liv Valmestad took on the responsibility of seeding the foundation information crucial to design practice featured in our ED1 courses. Katherine and Chad, along with Nils Vik, joined the full-time teaching collective in the ED2 Design Studios. Additional sessional teaching support in ED2 was provided by Emily Bews, Michael Butterworth, W. Dean Leith and Iqbal Shahid.

We are grateful to HUT K for providing an elegant venue for the 2017 Urban Media Lab (UML), coordinated in 2017, by Jae-Sung Chon. The UML provides a comprehensive and engaged launch for the ED2 year. The drawing instruction was provided by Scott Barham, the making component was led by Amanda Reis, and photography portion was expertly guided by Jacqueline Young. Teaching assistance was provided by a dynamic team inclusive of students from across the ED3 and ED4 curriculum.
In 2017, Leanne Muir joined the full-time teaching cohort for the ED Foundation Years. Leanne is a member of the Manitoba Association of Landscape Architects and teaches across the curriculum, with primarily responsibilities in the ED2 and Landscape and Urbanism studios as well as teaching Ecology and Design. Leanne has active practices in both design and the fine arts and recently published an article in Landscape Paysage Volume. 19, No. 4 (Winter 2017) entitled: “No Joke-i-king! Crokicurling is a Thing...”. Dr. Mohamad Araji completed three refereed journal articles and received two Mitacs Globalink Research Internships. Dr. Araji is the deserving recipient of the 2017 Carl R. Nelson Jr. Teaching Award. In addition to coordinating the Urban Media Lab, Jae-Sung Chon published “Urban Interiority Manifesto: Towards Emergent Spaces”, “Book: Housus – 25 Contemporary Housing Speculations by Students Around the World” and “Book: Next Home – Design Proposals and Article Research on the Topic of Next Living”. In keeping with her developing research interests the Okanagan and Northern Canada, Alyssa Schwan published “Ecological Wisdom: Reclaiming the Cultural Landscape of the Okanagan Valley,” in the Journal of Urban Management. Her article “Reclaiming Cultural Landscapes: Three Canadian Case Studies”, is upcoming in the edited volume The Poetics of Cultural Landscapes through Ecological Wisdom. Kim Wiese’s position as director of the FABLab serves as jumping off point for creative scholarship and an outlet for creativity and collaborative work. One of those collaborative projects, BEEHOUSELAB was nominated for a University of Manitoba Merit Award.

For all of our teaching staff, the ultimate reward comes at Convocation. If you allow me the indulgence of evoking the garden metaphor once more, here we witness the garden in full bloom. This year, at the 139th convocation of the University of Manitoba, 92 students were conferred with the degree Bachelor of Environmental Design. Two awards are presented at the Spring Convocation, the University Gold Medal for the student with the highest standing in the final two years of their undergraduate program and the Dan Muir Memorial Award, presented to a student with an outstanding ability in design. Congratulations to Jessica Piper on obtaining the University Gold Medal and to Alyssa Hornick, the 2017-2018 recipient of the Dan Muir Memorial Award.

In closing, I thank all the dedicated teaching and support staff who cultivate a creative and rigorous environment that nurtures growth and prepares students for action beyond the confines of the garden.

It is with great pleasure that I report for Network on the achievements of our Department of Architecture during the 2017-2018 academic year. It was a period of intense and exciting work and of great significance for various reasons, perhaps the most meaningful being the granting by the CACB (Canadian Architectural Certification Board) of a full six-year accreditation period to our Master of Architecture Program, effective July 1st 2018. This is the felicitous conclusion of the collective efforts from our faculty, students and support staff, with collaborative leadership of Lisa Landrum, towards academic excellence, with curricular improvements, replacement and rejuvenation of our human resources, and improved governance as well, at all levels. I would like to quote from the Visiting Team Report (VTR) a meaningful excerpt:

The CACB Visiting Team visited a professional program that had undertaken a significant self-assessment and organizational repair following the accreditation visit of 2015. The Team was pleased to find that decisions made by the University, the Faculty and the Department of Architecture have resulted in plans for action well on their way to completion and that have stabilized the environment in which students learn and are taught. Teaching faculty are collegial and productive and support staff are respected and engaged. Students continue to work hard and do good work. The physical facilities, traditionally a strength of the Faculty, have been refreshed and expanded. The profession has become more engaged.

The 2017-2018 academic year was also particularly fruitful for our Department in continuing consolidating our characteristic culture of making, which we embrace from poetic, ethical and theoretical perspectives, but also from hands-on praxis. I would like to highlight some of our most relevant achievements in that regard:

Warming Huts: Pontagon | Once again, this year the Department of Architecture took the lead representing FAUM at the Warming Huts Art & Architecture Winnipeg winter festival at The Forks. Pontagon, a hybrid from pentagon and pont (path in Greek, pont bridge in French) was the name given to our collaborative design-build project, worked on by 40 students from the ED3 Architecture Option and AMP programs, with the guidance of Terri Fuglem, Liane Veness, Eduardo Aquino, and Chad Connery. From Pontagon Future Memory of a Bridge I quote: Through an iterative modeling and research process, the design was proposed as a distillate of the following phenomenal criteria: [...dichroic reflective / projective surfaces; [...f]ragmentary geometry; [... and m]ultiplicity of form.
Atmosphere: Fabrications |
Atmosphere, our Faculty wide symposium on the built environment was this past year (Feb.1-3, 2018) successfully co-Chaired by Lisa Landrum and Liane Veness, representing the Department of Architecture and the Centre for Architectural Structures and Technology (C.A.S.T.). From Latin fabrica, fabrications means to make. The way in which this concept was approached was comprehensive involving not only material making but narrative and cultural constructs as well: let’s not forget that in its original meaning, the poet is the maker. Atmosphere 10 included four distinguished keynote speakers, eighteen peer-reviewed paper presentations, and ten installations, an Ice Bar and ice sculptures in the courtyard, experimental films, the Brickworks student fabrications contest, and a live musical performance by a C.A.S.T. Research-in-Residence. For information on this significant symposium you may visit atmos.ca

Design + Build for UMCycle | The University of Manitoba and the University of Manitoba Student Union (UMSU) partnered with Professor Lancelot Coar and his ED4 architecture studio to design and construct new structures to enhance the function and presence of the UMCycle Bike Kiosk located in Migizi Agamik Plaza at the Fort Garry campus. This project involved a close working relationship with the community at Migizi Agamik and the university design community to develop structures to support the needs of UMCycle to store bikes for repair, present bikes for sale, provide shelter for bike repair training, and a signage and rest area. Throughout the Winter semester (2018) 11 ED4 architecture students worked with other community and industry partners to develop designs and to fabricate four new wooden buildings, providing them with a unique learning experience aimed at serving the broader university community for years to come.

As I finish writing these lines, outside my office in the Architecture 2 Building, an exciting dissonance of power tools fills the air: construction crews work intensively in various fronts committed to finalized a complete interior renovation of our Studio breakout and review spaces before the start of the new 2018-2019 academic year. This space renewal signals and signifies the renaissance of our Department of Architecture.

For a sample of what the students in the Department of Architecture have been working on this year check out ArchFolio 2018, available on our website.

1. CACB CCCA, 2018 visiting team report, ottawa: CACB, p.5. The 2018 CACB visiting team report (VTR) and the 2017 architecture program report (APR) may be downloaded from the CACB website.

During the 2017-2018 academic year, the Department of City Planning worked with community partners in Winnipeg and across the province, and we welcomed a new group of students that included more international students than any cohort in recent memory. We also bid farewell to a respected colleague, but were able to hire a new faculty member and look forward to new directions we can take in the near future.

Dr. Orly Linovski and the first-year studio worked in the Fall term with community groups in the city’s West End. At the end of the term, they presented analysis and ideas to local organizations and stakeholders at the Winnipeg Art Gallery, covering topics that included transportation, housing, community economic development and background information about secondary planning.

The Regional Studio, led by Dr. David van Vliet, continued its ongoing collaboration with the Winnipeg Metropolitan Region (formerly the Partnership for the Manitoba Capital Region), providing research and background studies for a number of current issues. This partnership continues to be mutually beneficial, not only providing valuable data for the WMR, but internships for current student and recent graduates.

Dr. Richard Milgrom worked with Dr. Carlos Rueda, from the Department of Architecture, in the winter term, in a collaborative urban design studio.

Nine students from each discipline explored issues related to shaping the public realm, scales of development, urban design guidelines, and economic challenges to development in Downtown Winnipeg.

Dr. Janice Barry’s Indigenous Studio worked with Sagkeeng First Nation, Black River First Nation and Sapotaweyak Cree Nation. In all three cases, the students contributed to background studies for upcoming planning processes. Specific projects included GIS mapping, preparing historical time lines and the preparation of materials for community engagement and visioning sessions. The Indigenous Studio this year has changed to being a year-long studio – to provide more long-term engagement. Sarah Cooper joined the studio as a co-instructor in the winter term.

Dr. Rae Bridgman was on sabbatical this year. She continued her research about children, play and the city. But her highest profile work was with Bridgman Collaborative Architecture, who launched a “pop-up” toilet initiative aimed at addressing issues of human dignity in Winnipeg where there are very few public washrooms.

This year’s incoming cohort of students included far more students of international origin than any in recent memory. In a group of sixteen, two students were from Iran, and one each from United Arab Emirates, Colombia, Zimbabwe and the United States. This more diverse student body brought new perspectives to discussions, and
we look forward to more international students in coming years.

Finally, this was Dr. Barry’s last year at the University of Manitoba. The Department appreciates her extraordinary efforts while she was with us, particularly in enhancing our Indigenous Studio initiatives. We wish her well as she continues her career, and look forward to continued collaborations. At the same time, we welcome Dr. Sarah Cooper as a new colleague. Dr. Cooper is a graduate of our program, and has recently completed a Ph.D. at the University of Illinois Chicago. In addition to taking over leadership of Indigenous Studio, she brings research interests in housing.
For the Department of Interior Design, the Council for Interior Design Accreditation (CIDA) review was probably the most demanding occurrence of the 2017-18 academic year. The process takes over a year to prepare for and requires demonstration of a list of requirements that are important for the practice of interior design. I will expand on the results of our Accreditation Team visit and other news below.

Let’s start with some announcements. I am pleased to report that our programs are growing. In the fall of 2017, we admitted 18 first-professional Masters of Interior Design students. The larger than usual graduate class brought a high level of energy to the studio. Likewise, the Environmental Design Interior Environment 3 class had 39 students and three pre-masters students. We are pleased to see our student numbers rise as a result of an interest in interior design from students across Canada and beyond.

With the continuous growth of our department, we will welcome two additional faculty members in fall 2018. Assistant Professor Kurt Espersen-Peters in the Department of Interior Design and Instructor Katherine Isaac who will be splitting her time between the Department of Interior Design and the Environmental Design Program.

Before joining the University of Manitoba, Kurt was the program coordinator and a professor in the Bachelor of Interior Design program at Algonquin College between 2006 and 2018. He was also a visiting lecturer in the M.Sc. (Interior Design) at the University of Moratuwa in Sri Lanka from 2013 to 2016. His academic and artistic works explore the creative process and reflective thought in design.

Katherine Isaac holds undergraduate and masters degrees in interior design from the University of Manitoba and is a professionally accredited practitioner with over two decades of experience. Her current teaching and research interests center around early design education, professional practice for emerging designers, and spaces for grieving and memorialization.

Our Department continued with its tradition of excellence in teaching, learning and research this year. A notable achievement is the promotion of Dr. Shauna Mallory Hill to Associate Professor. Shauna has over 25 years of experience in teaching and researching building systems, universal and sustainable design, and building performance evaluation. She has presented her work nationally and internationally and published in multiple journals and books. Please join me in congratulating Shauna on her promotion and thanking her for her valuable contributions to the Department of Interior Design.
For the second year in a row, our graduates received Design Research Awards. Sponsored by Interior Designers of Canada (IDC) and Milliken, this award recognizes individuals who have demonstrated excellence and innovation through interior design research in two categories. Natalie Rowe won in the Educator Category for her thesis focusing on non-family caregiver perspectives on current and future Alzheimer’s care facilities in London, Ontario. Natalie is a graduate of our post-professional MID program and teaches interior design at Fanshawe College. Carla Pienaar, a recent graduate of the first-professional MID program, won in the Student category. Her work entitled “Bordello: Synergetic Gentrification of Place and Industry” outlines the potential for research in interior design to have a positive impact on marginalized populations.

This list of announcements could easily continue, however, given a limited word count for this article I must return to the CIDA Accreditation. It is my pleasure to announce that CIDA granted six-year accreditation for the first-professional Master of Interior Design Program as a result of their visit in February 2018. Accreditation is the public recognition accorded to a professional program that meets established professional qualifications and educational standards. The accreditation process requires a self-evaluation followed by a site visit and review conducted by a team representing CIDA. A full six-year accreditation is a maximum period that a program can be granted accreditation.

Our accredited degree combines courses from Environmental Design Interior Environment years 3 & 4 and MID 1 & 2 plus the practicum project. ED 1 & 2, Faculty of Architecture resources, Cultural Events, work experience and interaction with the professional community are also essential parts of our accredited interior design program. On behalf of the Department, I wish to acknowledge the substantial efforts of all of the teaching and admin staff, students and members of the professional community who assisted in the preparation of the Program Accreditation Report and Team Visit.

On a personal note, the accreditation process forced me to take a closer look at the work we do and how we do it. Our Department enjoys a wealth of resources and excellent staff and students who come to the campus each day because they believe that design can make a difference in the lives of others. It was a pleasure assisting the Department through the accreditation process. I look forward to seeing what we can accomplish with our committed faculty and growing student body in the next academic year.
Alan Tate, Head, Landscape Architecture | Leanne Muir, a graduate from our own Environmental Design and Landscape Architecture programs, joined us in July 2017 as an Instructor on a shared appointment with the Environmental Design program. And, following a search for an Assistant Professor (effectively as a replacement for Ted McLachlan, who retired in 2015) Kamni Gill joined us in July. Kamni has been teaching at the University of Sheffield, England since September 2012. She has a Bachelor of Arts in English and a Master of Environmental Design from the University of Calgary and obtained her MLA from the University of Pennsylvania in 1999 followed by 12 years in practice – including two years with Hargreaves Associates – before joining the University of Sheffield.

Brenda Brown and Jean Trottier were on research/study leave in fall term and Jean and Richard Perron were on leave in winter term. Dietmar Straub and Anna Thurmayr will be on leave in 2018-19.

Students | Numbers graduating from the MLA program remain relatively steady – there were thirteen in 2017-18, the same number as in 2016-17 and four less than in 2015-16. Thirty-three students graduated from the Landscape + Urbanism option in the ED program in 2017-18 but the intake to the option was significantly lower in 2017 and will be again in 2018. These lower numbers are, however, in balance with our staff numbers on research/study leave.

Department of Landscape Architecture

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Three incoming students – Kathryn McCudden, Nicole Reenders and Caila Sveinson – received University of Manitoba Graduate Fellowships and Garth Woolison was selected as the University Olmsted Scholar for 2018.

Studios | Although no significant changes were made to the curriculum for the MLA program or for the Landscape + Urbanism option, LA Studios 3 and 4 were flipped such that the regional studio preceded the site design studio. This change enables the second studio to be situated within the larger region examined in the first term. This year the respective studios studied the southern part of the “Greater Golden Horseshoe” in southern Ontario (Marcella Eaton) and then the Hamilton Waterfront, including Piers 7 and 8 – site of a recent major design competition (Alan Tate).

Taking the other studios in sequence, the L+U third year fall studio – Dwelling/Precinct/Everyday Life – explored design opportunities on the Fort Garry campus (Richard Perron and Leanne Muir) after those instructors had conducted the students on a field studies trip to seminal sites in Paris, Amsterdam and London. The L+U third year fall studio – Networks and Infrastructure – provided two alternatives: one examined the future of the Canoe Club site in south Osborne (Dietmar Straub), the other looked at the potential impact of autonomous vehicles on downtown Winnipeg (Marcella Eaton).
The L+U fourth year fall studio – Possible Urbanisms – looked at the “eviscerated landscape(s)” of Winnipeg’s urban fringe (Anna Thurmayr and Dietmar Straub) while the winter studio – Emergent Futures – studied the entire Red River watershed before focusing on individual, water-related sites (Brenda Brown with sessional instructors Rob Zonneveld and Ryan Coates). The intensive summer studio in May 2018 examined the aqueduct from Shoal Lake to Winnipeg – between the Museum of Human Rights Violations and the Museum of Human Rights, and including designs for rest stops en route (Marcella Eaton).

speakers | Notable incoming speakers included Tim Baird (Head of LA at Cornell) at Atmosphere 2018, Lisa Delplace (Van Sweden, Oehme and Associates) after the MALA annual general meeting, and Fritz Steiner (Dean, Penn Design) for the Harlyn Thompson Visiting Lecture. Notable outgoing speaking engagements included Marcella Eaton, Anna Thurmayr, Dietmar Straub and Jean Trottier, plus MLA students Ryan Coates and Emily Sinclair at the World Design Summit in Montreal in October 2017; Alan Tate at the Beijing Forestry University, also in October, and Brenda Brown, Dietmar Straub and Anna Thurmayr at the CELA conference in Blacksburg, Virginia in March 2018. Richard Perron spoke at an international conference in Dubai in April 2018 on Infrastructure and Construction.
current faculty research

Lisa Landrum, Associate Dean (Research) | Researchers in the Faculty of Architecture are actively engaged in a variety of projects impacting how the built environment is designed, constructed and understood. In an era of climate change, rapid urbanization, and other 21st century challenges and aspirations, our design researchers are driving innovation and insight, helping society re-imagine more sustainable, just and inspiring communities.

For instance, our researchers are striving to improve energy efficiency of glass building facades in cold climates (Araji); demonstrating the ethical and economic imperatives of transit-oriented development (Linovski); building databases of best-practices for Canadian urban strategies (Perron); and arguing – through design excellence – that human experience and vulnerable ecosystems are significantly enhanced by well-designed gardens (Straub, Thurmayr).

Design research in the Faculty of Architecture is diverse in topic, method and scope. Some researchers aim to materially improve construction techniques; build better interiors, cities and parks; and measure how built works impact individual health. Others foster agency and understanding through historical inquiry, community engagement and creative experimentation.

These modes of research (re)discover, (re)interpret and (re)create knowledge in ways that influence design practice and pedagogy, as well as public policy and popular perception. Design research promotes and orients both disciplinary debates and public conversations on topics affecting everyone, like what makes a good city, and how built environments can be more culturally relevant and environmentally responsible, while expanding collective imagination.

Supported by well-equipped making and thinking facilities, including the Centre for Architectural Structures and Technology (C.A.S.T.), FABLab and the Architecture / Fine Arts Library, Faculty of Architecture research integrates diverse kinds and ways of knowing. With the support of such knowledge laboratories, our research is both productive and reflective – projecting better futures, while learning from the past. Thanks to the centrality and complexity of the University of Manitoba milieu, our research is both local and global – addressing real issues facing urban and rural Manitobans, including the need for affordable housing and indigenous design principles, while engaging global issues such as human rights and environmental responsibility.

Faculty of Architecture research is multi-disciplinary and collaborative. Involving methods that bridge social and natural sciences, arts and humanities, design researchers regularly engage other academics...
in Engineering, Arts, Fine Arts, Classics, Theatre, Social Sciences, Health Sciences, Native Studies, Environment Earth and Resources; and in Research Centres across the University, notably the Centre on Aging, the Centre for Professional and Applied Ethics, the National Centre for Truth and Reconciliation, and the Office of Sustainability. Regionally, our researchers sustain partnerships with community and industry organizations, including the Winnipeg Architecture Foundation; Storefront Manitoba; the Winnipeg Art Gallery; the Winnipeg Arts Council, the Royal Aviation Museum, Platform Gallery, the City of Winnipeg, Trans Canada Trails (or the Great Trail), Price Industries, Stantec, the Canadian Institute of Steel Construction, and the Manitoba Masonry Institute. Globally, researchers in the Faculty of Architecture have ongoing collaborations with the Form Finding Lab at Princeton University; the Digital Structures Lab at the Massachusetts Institute of Technology; the Environmental Design Research Association (EDRA); and the International Society for the Philosophy of Architecture (ISPA), among others.

The Faculty of Architecture welcomes new research collaborations with academic and industry partners, government and non-profit organizations, and looks forward to involving the next generation of researchers in our shared pursuit of design knowledge and excellence for the common good.

**2017 - 2018 Research Accomplishments** | The following summary provides a sampling of research in the Faculty of Architecture. To learn more, readers are encouraged to visit the “Research News” feature on the Faculty of Architecture homepage, and to browse the web pages of individual researchers.

**Funded Research** | In 2017-18, Faculty of Architecture researchers earned grants from the Natural Sciences and Engineering Research Council of Canada (Araji); the University of Manitoba Collaborative Research Program (Coar, with Dr. Cha in Civil Engineering); the University of Manitoba Creative Works Program and Manitoba Arts Council (Brown); and the Landscape Architecture Canada Foundation (Eaton).

**Awards** | The design practice of Dietmar Straub and Anna Thurmayr Landscape Architects, Stadtplaner, was awarded the Western Living 2017 Designers of the Year Award in the category Landscape.

**Publications** | Several researchers have book projects in development. In 2017-18, a number of book chapters appeared in edited collections, including Building Performance Evaluation: From Delivery Process to Life Cycle Phases, published by Springer (Mallory-Hill); Landscape Observatory: The Work of Terence Harkness, AR+D publishing (Brown); Reading Architecture, Literary Imagination and Architectural Experience, published by Routledge (Landrum); and Syndesis III, published by the Universidad Piloto de Colombia (Aquino and Rueda). Faculty research was also published in conference proceedings, catalogues and peer-reviewed journals, including TAD (Technology, Architecture & Design) and the Journal of Building Engineering (Araji); the International Journal of Space Structures and the International Journal of Rapid Manufacturing (Coar); the Journal of Urban Management (Schwann); the Journal of Planning History, the Journal of the American Planning Association, and Urban Affairs Review (Linovsky); the Journal of Interior Design (Close); Landscape / Paysages (Perron, Straub, Thurmayr); and Forty-Five (Wilson Baptist).

**Presentations** | In 2017-18, Faculty of Architecture researchers presented scholarship at numerous international venues, including the Architectural Institute of Japan in Tokyo and the International Symposium for Social Infrastructure and Production in Tsu City (Mallory-Hill); the International Conference on Sustainable Infrastructure and Construction in Dubai (Perron); the International Association of Shell and Spatial Structures symposium in Hamburg, Germany (Coar); the S-Arch (Sustainable Architecture) Conference in Venice (Perron); the International Conference on the Image in Venice (Close); the Society of Architectural Historians Conference in Glasgow, Scotland (Landrum); the regional and fall meetings of the Associate Collegiate Schools of Architecture in Marfa, Texas (Epp) and Madrid, Spain (Aquino); and the Council of Educators in Landscape Architecture conference in Blacksburg, Virginia (Brown, Staub, Thurmayr, Trotter). Regionally, researchers presented work at the World Design Summit in Montreal (Straub and Thurmayr); the Canadian Institute of Steel Construction Educators Forum in Ottawa (Coar); the 2018 Hemson Lecture Series in the School of Urban and Regional Planning at Ryerson University in Toronto (Barry); Manitoba's Riding Mountain National Park (Brown); the Canadian Institute of Planners National Conference in Winnipeg (Aquino); and the Atmosphere Fabrications Symposium at the University of Manitoba's Faculty of Architecture (Coar, Staub, Thurmayr).

**Professional Practice + Creative Work** | Design research via professional projects encompasses garden design (Staub, Thurmayr) and landscape conservation (Schwann), and developing modular housing and building systems for extreme climates (Enns). In 2017-18 notable creative works include contributions to Brazil’s 2018 Venice Biennale exhibit, entitled Walls of Air (Aquino); collaboration with the Winnipeg Art Gallery on the International Iqaluit Airport Public Art Strategy called Qaujimajatuqangit, “Aggregate Inuit knowledge, values, customs, and lifeways” (Aquino); Deep Bay Artist Residency at Riding Mountain National Park and the development of an exhibition at Chaco Culture National Historical Park entitled Minding the Ground; Hearing the Wind (Brown).
new faculty members

Sarah Cooper | Sarah Cooper’s research interests focus on social policy and the implications of privatization and commodification of social programs. She approaches her work with a social justice lens, seeking to identify and address inequity in policy development and implementation. Her current research examines housing for low-income households in Canada, with a focus on the expiry of social housing funding agreements—an issue that will transform the landscape of housing and housing policy in Canada over the next few decades.

Kurt Espersen-Peters | His passion for teaching and education is equally matched by his obsession with art and the built environment. His academic and artistic works explore the creative process and reflective thought. Kurt is excited about his new appointment with the Department of Interior Design at the University of Manitoba. He will continue his research and reflection on the phenomenology of the built environment and the design process, while forever wresting with the works of the Victorian polymath John Ruskin.

Katherine Isaac | Katherine Isaac’s career has spanned both Vancouver and Winnipeg to date, and she has practiced at Kasian, Bricault Design and currently, Local. Katherine has previously been awarded the Students’ Teacher Recognition Award in 2015, an honour bestowed for having made a positive impact on a graduating student’s life. Current teaching and research interests centre around Beginning Design pedagogies, expanding understanding of professional practice for emerging designers, and spaces for grieving and memorialization. She welcomes this opportunity to work within and contribute to the University of Manitoba community.

Shawn Bailey | Indigenous Scholar for the Faculty of Architecture and the Faculty of Engineering. Shawn’s portfolio of work includes award-winning projects situated in North Western Ontario. Shawn is a partner at Boreal Architecture Studio with offices in both Winnipeg, Manitoba and Kenora, Ontario. Much of their work is in collaboration with Indigenous communities. Current indigenous works include the design of an administration complex, skatepark and a healing space exploring a careful interplay between cultures. Shawn has also explored material research and digital fabrication. He is interested in exploring digital technology in more intuitive ways that inform making and is proficient in Building Information Modeling (BIM) as well as algorithmic modeling software such as Grasshopper.

Kamni Gill | Her teaching and research emphasizes experimental methods of landscape architecture and cultural conceptions of ecology as a human habitat and as an elemental process. Kamni sees trees as a minimal but powerful tool of landscape architects that can express a new poetics and politics of the cities. Recently, Kamni published a paper exploring the spatial and cultural qualities of the grove as interpreted by Aldo Van Eyck, Wm Boer and Mien Ruys in the Journal of Garden History and Designed Landscape and has developed a teaching practice based on urban tree planting types. At the University of Manitoba, Kamni will develop the same interest in the raw material of landscape architecture. through a research project Earth Moves that focuses on the structure of urban ground and its social, aesthetic and ecological implications and through the teaching of grading and site morphology.
The gods of Olympus died with the advent of Christianity - or so we have been taught to believe. But how are we to account for their tremendous popularity during the Renaissance? The Survival of the Pagan Gods offers a multifaceted look at the far-reaching role played by mythology in Renaissance intellectual and emotional life. www.amazon.ca/Senses-design-beyond-vision/dp/1616897104

A powerful reminder to anyone who thinks design is primarily a visual pursuit, The Senses accompanies a major exhibition at the Cooper-Hewitt Smithsonian Design Museum that explores how space, materials, sound, and light affect the mind and body. Featuring thematic essays on topics ranging from design for the table to tactile graphics, tactile sound, and visualizing the senses, this book is a call to action for multisensory design practice. www.amazon.ca/Senses-design-beyond-vision/dp/1616897104

Slow Growth discusses the human response to landscape, and provides examples of designs organized by understanding how people move on foot. It explores the 18th century naturalistic style, and the 20th-century evolution of this tradition through rural parks and lakes projects. Slow Growth describes the idea of man-made projects moving from rural settings to cities as urban landscape, and analyses urban views and skylines and how these might be preserved. www.landscapeinstitute.org/news/slow-growth-book-hal-moggridge/

The Eyes of the Skin has become a classic of architectural theory and consists of two extended essays. The first surveys the historical development of the ocular-centric paradigm in western culture since the Greeks, and its impact on the experience of the world and the nature of architecture. The second examines the role of the other senses in authentic architectural experiences, and points the way towards a multi-sensory architecture which facilitates a sense of belonging and integration. www.goodreads.com/book/show/398621.the_eyes_of_the_skin

Arguments about traffic, the design of streets, and the importance of pedestrian life seem to be dominating political and planning discussions in Winnipeg now. With the approach of civic elections in the fall, Janette Sadik-Kahn’s Streetfight: Handbook for an Urban Revolution (2016, New York: Viking) is a timely publication. Sadik-Kahn, the former transportation commissioner for the City of New York recounts her experiences, success and challenges in working towards raising the priority of non-automobile transport alternatives. She spoke last year in Winnipeg at the Manitoba Trail’s Mode Shift Conference (an event that had organizational support from City Planning student Samantha Blatz). And while some argue the relevance of New York experience to Winnipeg is a stretch, the thoughts Sadik-Kahn shares challenge common assumptions about the primacy of the automobile, and highlight the social, economic and ecological advantages provided by other modes of transport. synopsis by richard milgrom

Issues around the built environment are increasingly central to the study of the social sciences and humanities. The essays offer a refreshing take on the question of architecture and provocatively rethink many of the accepted tenets of architecture theory from a broader cultural perspective. Rethinking Architecture represents a careful selection of the very best theoretical writings on the ideas which have shaped our cities and our experiences of architecture. www.goodreads.com/book/show/784861.rethinking_architecture

In The Thinking Hand, Juhani Pallasmaa reveals the miraculous potential of the human hand. He shows how the pencil in the hand of the artist or architect becomes the bridge between the imagining mind and the emerging image. The book surveys the multiple essences of the hand, its biological evolution and its role in the shaping of culture, highlighting how the hand-tool union and eye-hand-mind fusion are essential for dexterity and how ultimately the body and the senses play a crucial role in memory and creative work. www.amazon.ca/thinking-hand-existential-embodied-architecture/dp/0470779292

An essay on aesthetics by the Japanese novelist, In Praise of Shadows book explores architecture, jade, food, and even toilets, combining an acute sense of the use of space in buildings. The book also includes descriptions of lacquerware under candlelight and women in the darkness of the house of pleasure. www.goodreads.com/book/show/34473.in_praise_of_shadows