

The background of the cover is a composite image. It features a globe in the center, showing green landmasses and blue oceans. The globe is surrounded by a network of lines, possibly representing a map or a globe's latitude and longitude. The overall color palette is warm, with shades of brown, gold, and blue. The text 'UBC 2016-17 Annual Report' is overlaid on the image in a large, white, serif font.

UBC 2016-17 Annual Report



COVER: THE NEXT ONE HUNDRED YEARS
UBC's Class of 2016, our 100th graduating class, included Michelle Kunimoto whose bachelor degree in physics and astronomy led her to the discovery of four new planets beyond our solar system. Designated "planet candidates" until independently confirmed, they include one that is in the "Goldilocks Zone" of its star. Not too close, not too far, but just right for water oceans, and maybe life. What will the next 100 years bring?


Unless noted, images are of UBC students, faculty, staff and community members, and are shot on UBC locations.

UBC is proud to mark its 100th anniversary as a global leader in education, research innovation and community engagement.

The stars of this annual report are UBC researchers whose discoveries have the potential to change our quality of life and innovative teachers who are pushing the boundaries of knowledge. They are learners with solutions to pressing issues and alumni who are making life-changing contributions in their communities. And they are the people who have made UBC a global leader in sustainability and one of the best places to work in Canada.

If we're capable of achieving all of this in just one year, imagine what's possible in our next century.

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Message from the President. Welcome to the 2016-17 UBC Annual Report. In this document, we celebrate the achievements of people—students, faculty, staff, alumni and supporters—who are shaping UBC's next century today.

Achievements like those of undergraduate student Michelle Kunimoto who discovered four new planets; Dr. Claudia Krebs whose YouTube videos are incorporated in post-secondary courses throughout the world; alumni Donald and Elizabeth MacRitchie who have been instrumental in the establishment and growth of UBC's Northern Medical Program; the UBC athletes who competed in the Olympics and Paralympic Games in Rio; and our newest University Killam Professors—all international leaders in their fields.

This report also celebrates other UBC accomplishments, such as the expansion of the UBC family medicine residency training to the South Okanagan; the construction of the Indian Residential School History and Dialogue Centre; and the establishment—with the University of Washington—of the Cascadia Urban Analytics Cooperative, which uses data to help communities address chronic urban challenges, ranging from homelessness to traffic congestion.

These are just some of the highlights that you will find in this report. Indeed, we have much to be proud of over the past year. And now, as we begin UBC's next century, we can look forward to even greater accomplishments.

To build on the collective achievements that have made UBC an outstanding institution, we are now engaging our communities on a new strategic plan to take an outstanding university and make it even better. The UBC's Next Century planning process began in the fall of 2016, and is engaging the entire university community in an exercise to identify the priorities that will guide the university in the future. I hope you will be a part of it.

I look forward to working with you to reach even greater heights, and reporting even more inspiring accomplishments in next year's report.

—PROFESSOR SANTA J. ONO

UBC at a Glance 2016-17

UBC'S TWO MAIN CAMPUSES are situated in Vancouver (UBC Vancouver) and in Kelowna in the Okanagan Valley (UBC Okanagan).

Also in Vancouver, UBC Robson Square is a vibrant learning centre in the heart of downtown, the UBC Learning Exchange is a community engagement initiative based in Vancouver's Downtown Eastside, and UBC's Centre for Digital Media at the Great Northern Way Campus is located in Mount Pleasant.

UBC also provides clinical education to Faculty of Medicine students at 75 health care facilities across British Columbia. In addition, UBC's Asia Pacific Regional Office in Hong Kong and Liaison Office in New Delhi, India facilitate teaching and research partnerships and support alumni engagement.

UBC is home to 17 Faculties, 14 Schools and one College.

STUDENTS AT UBC (54,236 STUDENTS AT THE VANCOUVER CAMPUS, 8,687 STUDENTS AT THE OKANAGAN CAMPUS)

62,923

FACULTY AND STAFF AT UBC

15,660

ALUMNI IN 150 COUNTRIES

318,000+

AMONG CURRENT OR FORMER FACULTY AND ALUMNI

- 7 Nobel Prize winners
- 10 3M National Teaching Fellows
- 208 Royal Society of Canada members
- 3 Canadian prime ministers

UBC IS RANKED AMONG THE TOP 20 PUBLIC UNIVERSITIES IN THE WORLD

20

UBC OBTAINED SECOND CONSECUTIVE 'GOLD' STARS RATING FOR SUSTAINABILITY IN 2015

2

COMPANIES SPUN OFF FROM UBC RESEARCH

199

UBC IS CANADA'S MOST INTERNATIONAL UNIVERSITY (TIMES HIGHER EDUCATION INTERNATIONAL RANKINGS 2017)

1

FUNDS RAISED FOR STUDENT SUPPORT, PROGRAMS, RESEARCH AND FACILITIES

\$181.9 M

UBC'S ECONOMIC IMPACT IN 2016-17

\$12.5 B





100 Years: Looking Back, Looking Forward

Celebrating a century of growth and transformation at UBC. The UBC Centennial launched on September 30, 2015, 100 years to the day since we welcomed our first class of 379 students. The celebrations culminated in 2016 with performances, lectures, speakers' series and workshops focused on what we do best: research, teaching, learning and innovation.

UBC100

UBC Centennial Highlights

OUR 100TH ANNIVERSARY BEGAN with the opening of the Robert H. Lee Alumni Centre, the first of its kind in Canada. It's a new home for alumni and has become the official welcome centre for our Vancouver campus. A hub for collaboration and lifelong learning, the centre had over 26,000 people pass through its doors in 2016-17.

A number of centennial initiatives worked to shape better relations with Indigenous communities, including the renewal of the historic educational partnership between the Okanagan Nation Alliance and UBC during the 10th anniversary of the opening of the Okanagan campus.

We closed out the UBC Centennial on our Vancouver campus with a forward-looking special event that featured leading experts providing their perspectives on the future of accessibility, the planet, food sources and robotics and with a visit from the Duke and Duchess of Cambridge to UBC Okanagan.

We invited our entire community to celebrate a century of success and, in total, nearly 25,000 people attended the more than 100 events. The legacy of the Centennial has been strengthening the connections we've built with our engaged alumni, students, staff, faculty, donors and partners over our first 100 years.

Together, we built UBC from a small, provincial university into one of the top 40 research universities in the world. Imagine the effect we could have in our next century through what we learn, discover and contribute together.



UBC 100 Highlights

CENTENNIAL SCHOLARS PROGRAM

The UBC Centennial Scholars Entrance Award program created new, renewable entrance scholarships, funded by donors and UBC, totalling \$1.9 million. These awards will provide annual support over the next four years to 54 academically qualified students who would not otherwise be able to attend UBC without significant financial assistance.

GLOBAL IMPACT MAP

We created a Global Impact Map to visually capture UBC's reach across the world. More than 2,000 alumni, students, faculty, staff, friends and partners of UBC in 124 countries told us where they are and what they're up to now.

EMERGING RESEARCH WORKSHOPS

In spring 2016 we hosted a series of workshops that brought together leading researchers from around the world to focus on three areas in which UBC is emerging as a potential global leader: Indigenous studies, water, and epigenetics.

Centennial Initiatives Fund

We invited the university community to celebrate our effect on the world through the UBC Centennial Speaker Series, special events and other programs. We awarded \$600,000 to more than 85 initiatives through the UBC Centennial Initiatives Fund, including:

UBC 2050: THE FUTURE OF HIGHER EDUCATION

What will higher education look like in the next three decades? This panel discussion explored the future of higher education and looked at how UBC can continue as a global leader in advancing educational technologies and research-based teaching practices.

Famed author and journalist Annie Murphy Paul opened the event with her keynote speech *Brilliant: The Science of How to Get Smarter* that highlights the implications of new research findings on the future of teaching and learning.

The event closed with a lively discussion between the faculty, alumni, students and leadership who will help steer UBC as we navigate through an era of rapid change in the educational landscape.

NEW PERSPECTIVES ON LEARNING IN THE DOWNTOWN EASTSIDE

In early May, 2016 354 people from UBC and the broader community came together for a two-day conference in the heart of the Downtown Eastside (DTES) to facilitate new collaborations around innovative learning modeled by the Learning Exchange's successful community-engagement practices. The event promoted dialogue between diverse groups of people and addressed DTES community priorities, such as adult basic literacy and arts and culture—including Threading our Stories—a button blanket and cultural sharing activity.

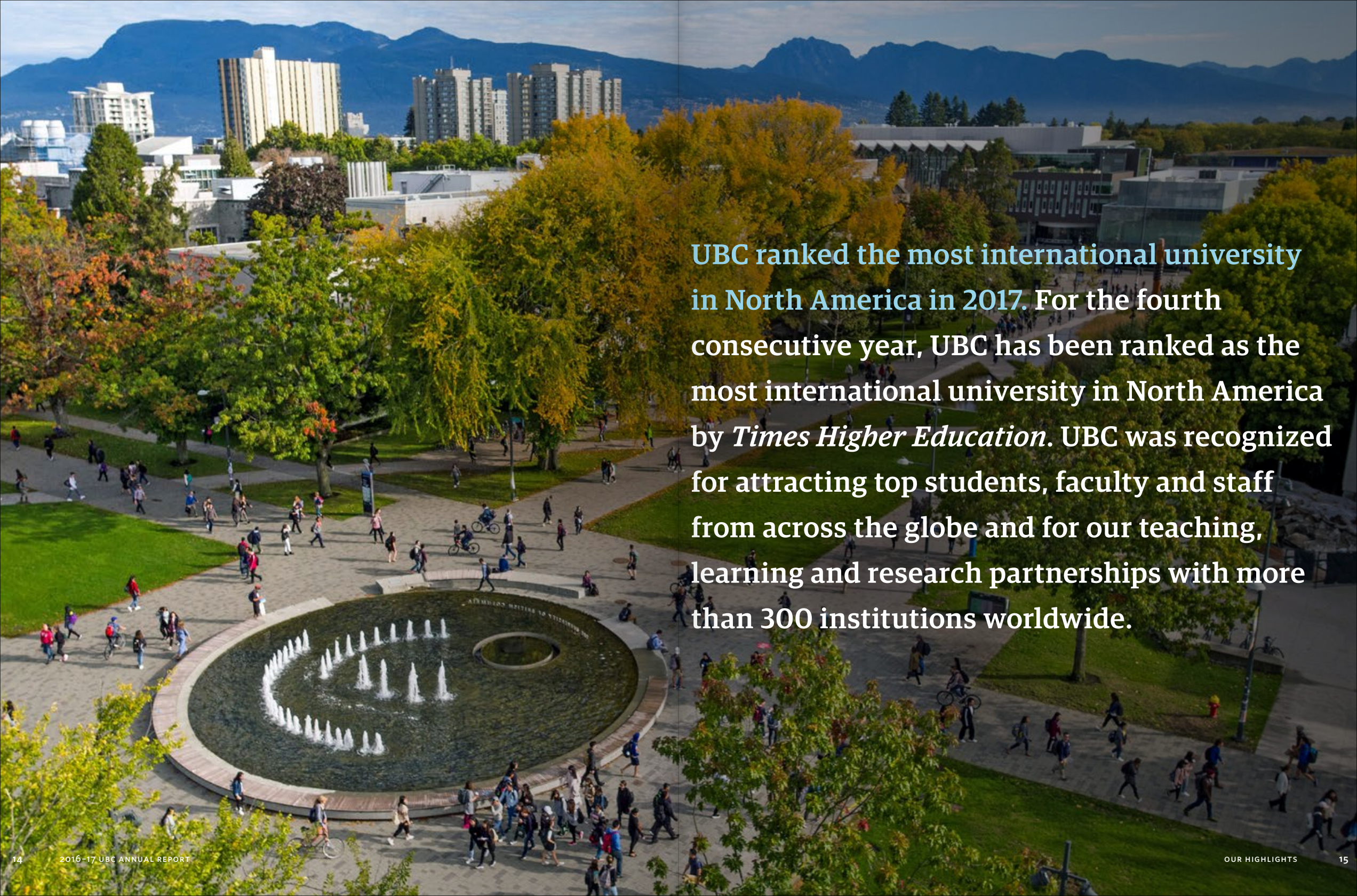
ABORIGINAL ART INSTALLATION

On September 27, 2016 the Duke and Duchess of Cambridge visited UBC Okanagan as part of their 2016 tour of Canada. The royal couple attended a dedication ceremony for a new Aboriginal art installation commemorating UBC's Centennial and the 10th anniversary of the Okanagan campus. This work acknowledges the traditional territory of the Okanagan Nation, upon which the Okanagan campus stands. It was created by artist Les Louis, a member of the Lower Similkameen Band and funded in partnership with the Okanagan Nation Alliance.

Aboriginal art installation
Les Louis, Lower Similkameen Band, UBC Okanagan campus



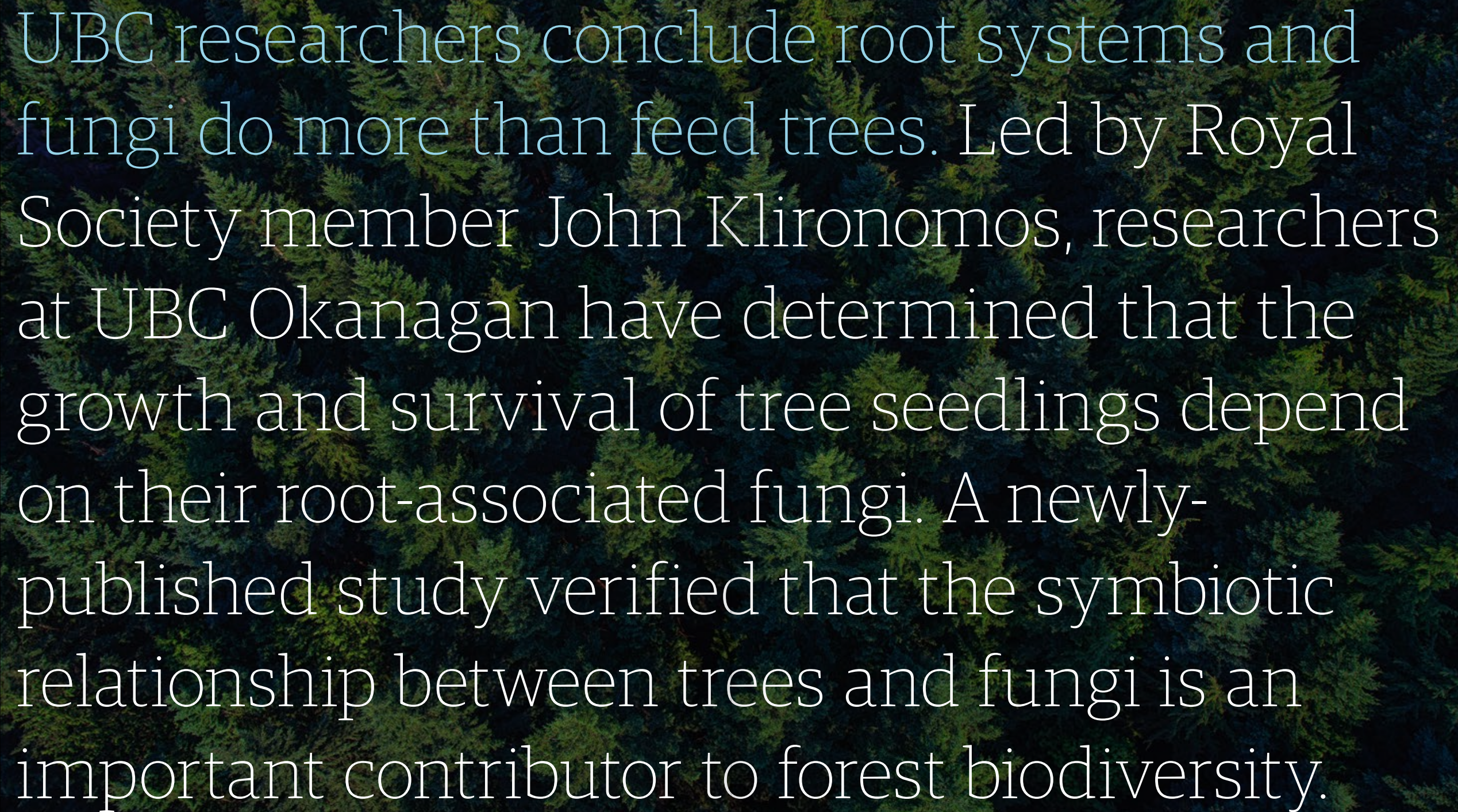
Our Highlights



UBC ranked the most international university in North America in 2017. For the fourth consecutive year, UBC has been ranked as the most international university in North America by *Times Higher Education*. UBC was recognized for attracting top students, faculty and staff from across the globe and for our teaching, learning and research partnerships with more than 300 institutions worldwide.

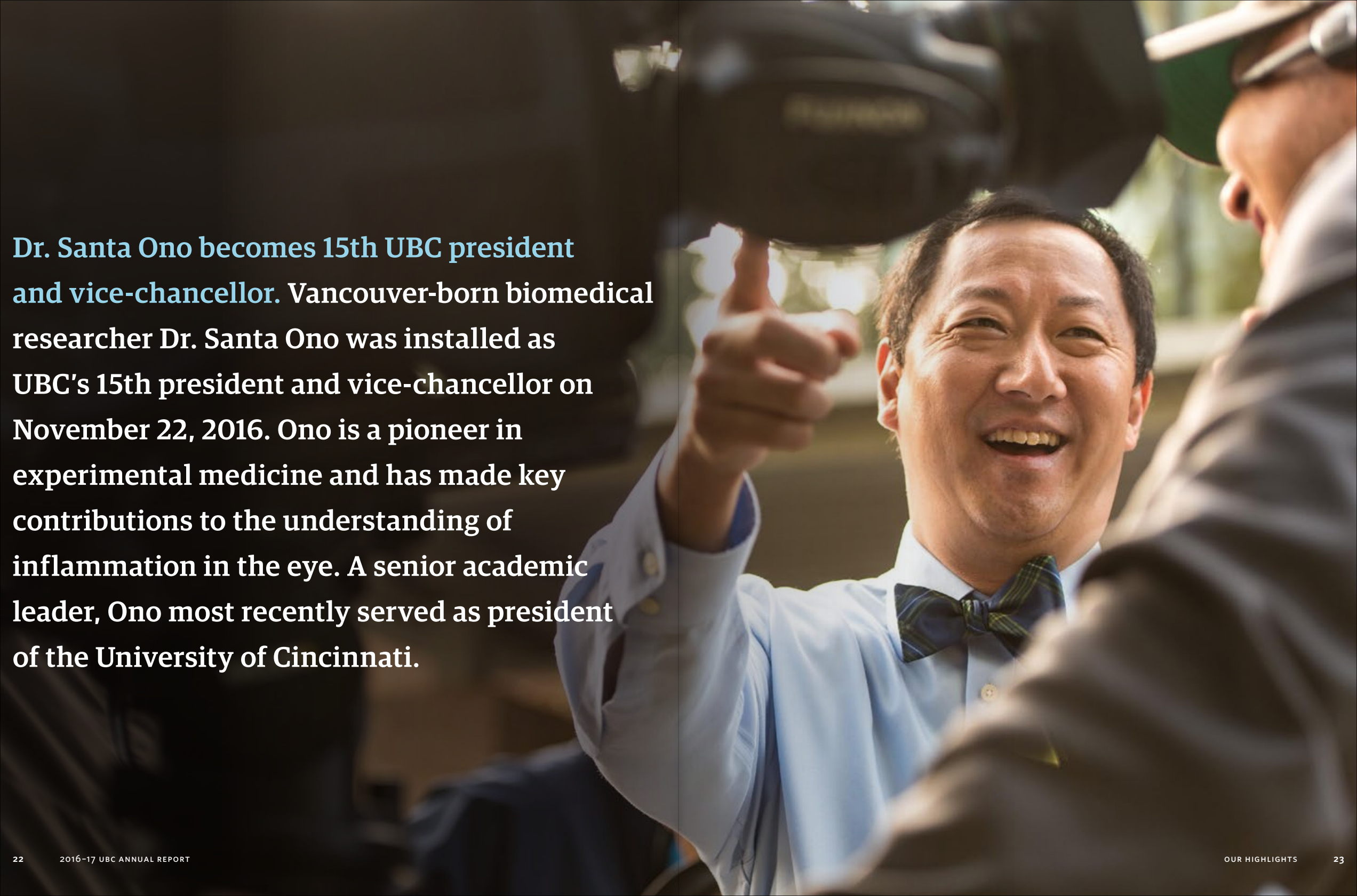
UBC Library acquires copy of 'the most beautiful of all printed books'—the Kelmscott Chaucer. A new chapter in teaching has begun for the UBC Vancouver Library with the acquisition of one of the world's most extraordinary books. Printed in a limited edition of only 438 copies, *The Works of Geoffrey Chaucer* was published in 1896.





UBC researchers conclude root systems and fungi do more than feed trees. Led by Royal Society member John Klironomos, researchers at UBC Okanagan have determined that the growth and survival of tree seedlings depend on their root-associated fungi. A newly-published study verified that the symbiotic relationship between trees and fungi is an important contributor to forest biodiversity.

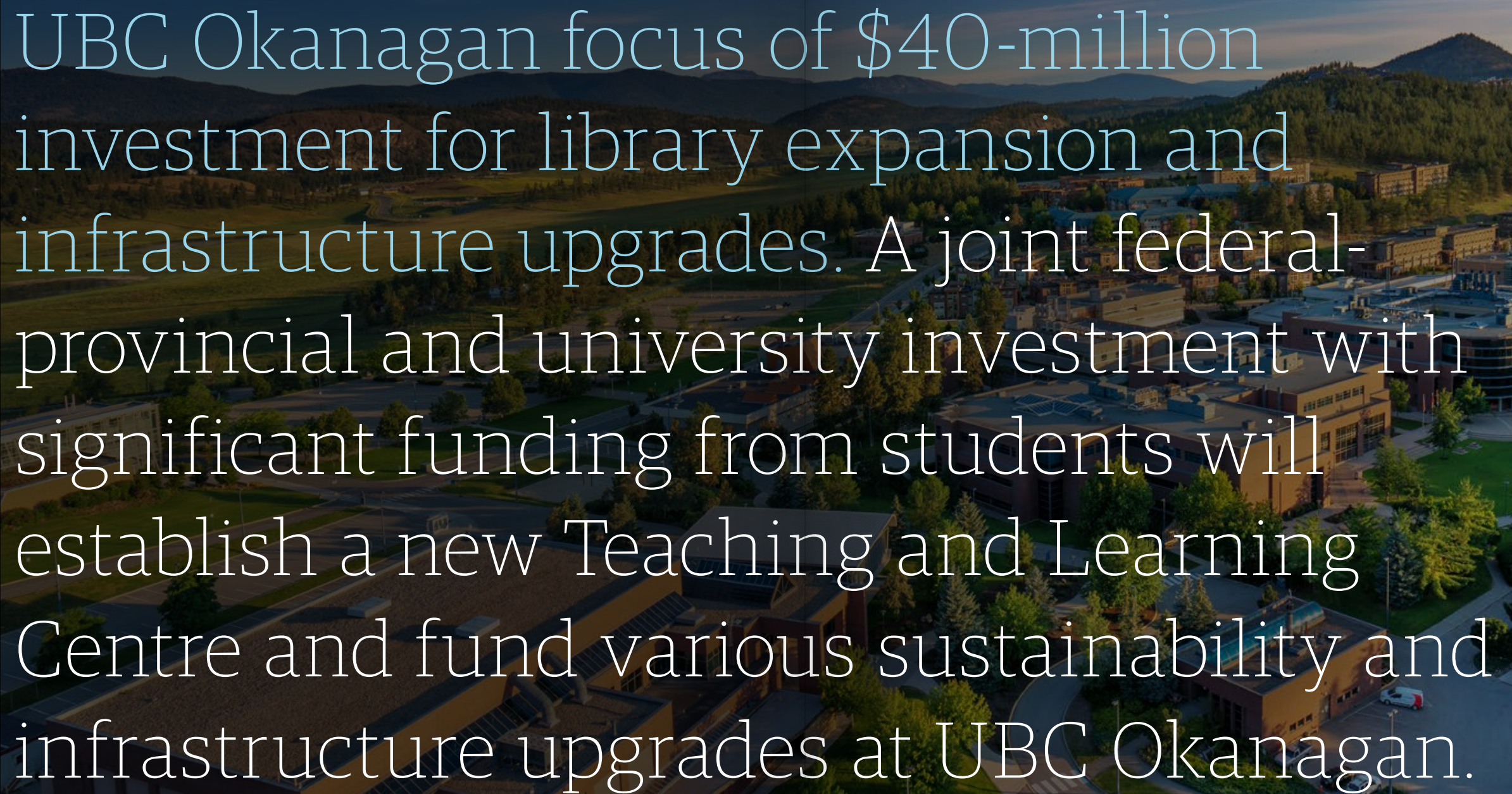
Universities establish joint centre to use data for social good in Cascadia region. UBC and the University of Washington established the Cascadia Urban Analytics Cooperative to use data to help communities address chronic urban challenges, ranging from homelessness to traffic congestion. Made possible thanks to a US\$1-million gift from Microsoft, the collaborative will bring faculty, students and community stakeholders together to solve such problems.



Dr. Santa Ono becomes 15th UBC president and vice-chancellor. Vancouver-born biomedical researcher Dr. Santa Ono was installed as UBC's 15th president and vice-chancellor on November 22, 2016. Ono is a pioneer in experimental medicine and has made key contributions to the understanding of inflammation in the eye. A senior academic leader, Ono most recently served as president of the University of Cincinnati.

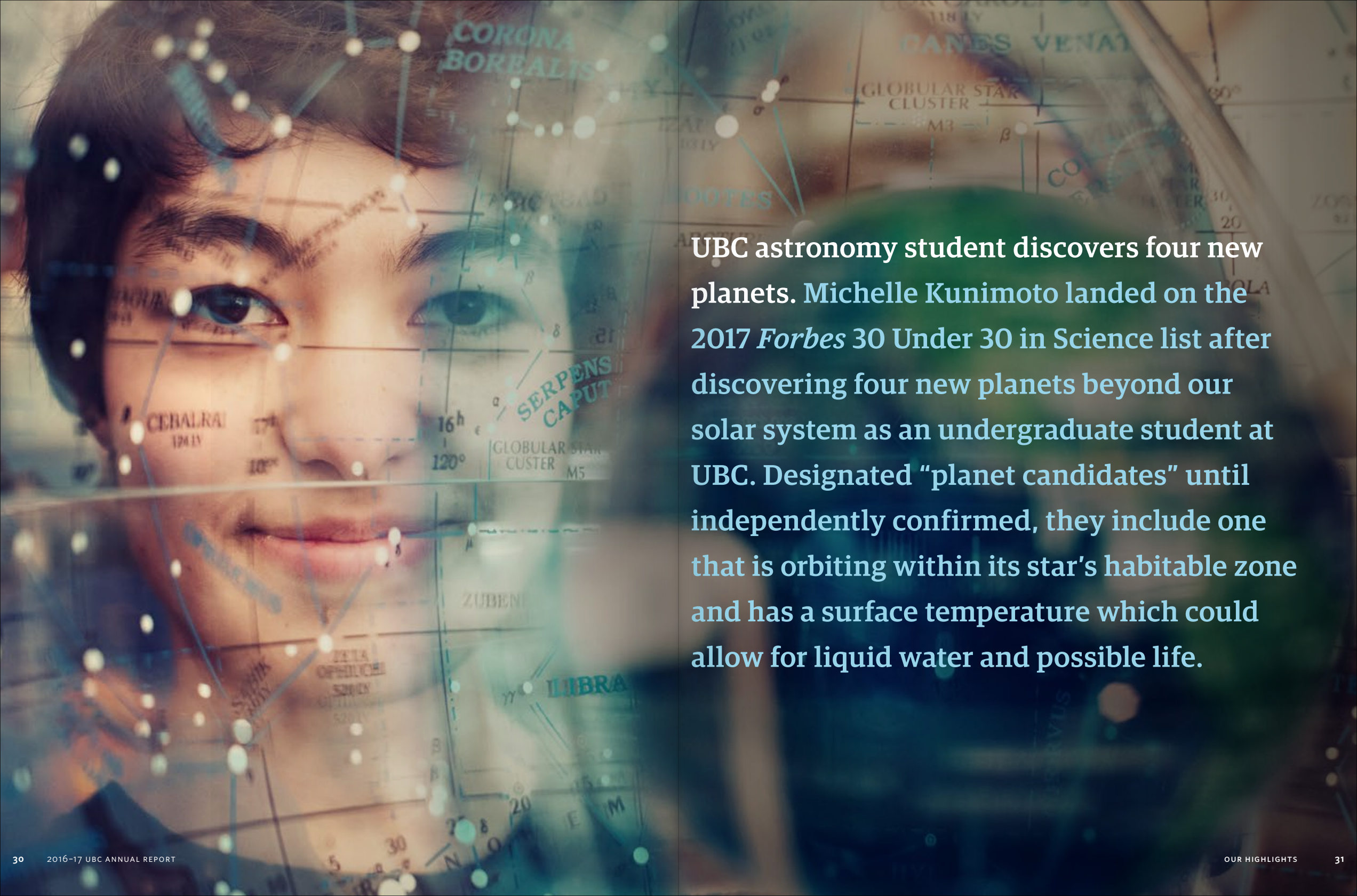


Global climate target could net additional six million tons of fish annually. If countries abide by the Paris Agreement global warming target of 1.5 degrees Celsius, potential fish catches could increase by six million metric tons per year, according to a new Nereus Program study published in *Science*. The Nereus Program, a collaboration between the Nippon Foundation and UBC, is a global interdisciplinary ocean research initiative.

An aerial photograph of the UBC Okanagan campus at dusk. The image shows several large, modern university buildings with flat roofs and large windows, interspersed with green lawns and trees. In the background, rolling hills and mountains are visible under a twilight sky. The text is overlaid on the left and center of the image.

UBC Okanagan focus of \$40-million investment for library expansion and infrastructure upgrades. A joint federal-provincial and university investment with significant funding from students will establish a new Teaching and Learning Centre and fund various sustainability and infrastructure upgrades at UBC Okanagan.

UBC establishes President's Excellence Chairs. UBC is investing \$20.7 million to fund chairs in six fields: precision oncology, media studies, brain health, global development policy, biodiversity studies, forest bioproducts—all areas where we are global leaders. These chairs reinforce UBC's commitment to world-class teaching and research and have the potential to raise the university's reputation within the international academic community.

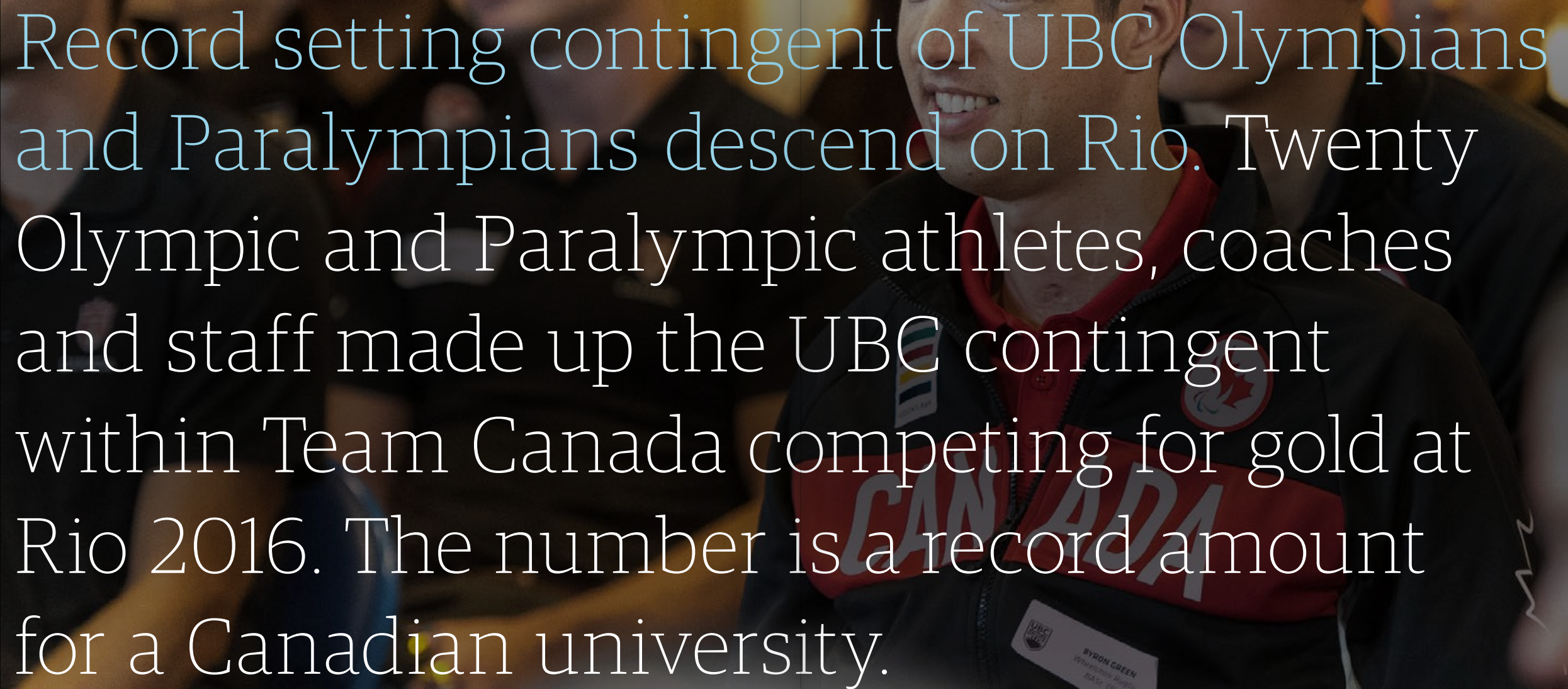


UBC astronomy student discovers four new planets. Michelle Kunimoto landed on the 2017 *Forbes* 30 Under 30 in Science list after discovering four new planets beyond our solar system as an undergraduate student at UBC. Designated “planet candidates” until independently confirmed, they include one that is orbiting within its star’s habitable zone and has a surface temperature which could allow for liquid water and possible life.



UBC alumni honoured for improving healthcare in northern B.C. *alumni UBC*
2016 Volunteer Leadership Award
co-winners Dr. Donald MacRitchie (BSc'68, MD'70) and Elizabeth MacRitchie (BSc'70) have supported healthcare professional training and retention in remote northern communities over the last two decades and have been instrumental in the establishment and growth of UBC's Northern Medical Program.

UBC congratulates newest University Killam Professors. Renowned evolutionary biologist Dr. Sarah Otto, internationally celebrated fisheries scientist Dr. Daniel Pauly and internationally acclaimed developmental psychologist Dr. Janet Werker are UBC's most recent winners of the University Killam Professorships. The highest honour UBC can confer on a faculty member, a University Killam Professorship recognizes exceptional teachers and researchers who are leaders in their fields.

A photograph of a group of athletes, likely UBC Olympians and Paralympians, wearing Team Canada gear. The focus is on a young man in the foreground, smiling, wearing a dark jacket with a red collar and a "CANADA" patch. A name tag on his jacket reads "BYRON GREEN" and "Whitby, ON". Other athletes are visible in the background, some looking towards the camera and others looking away. The text is overlaid on the image in a large, white, serif font.

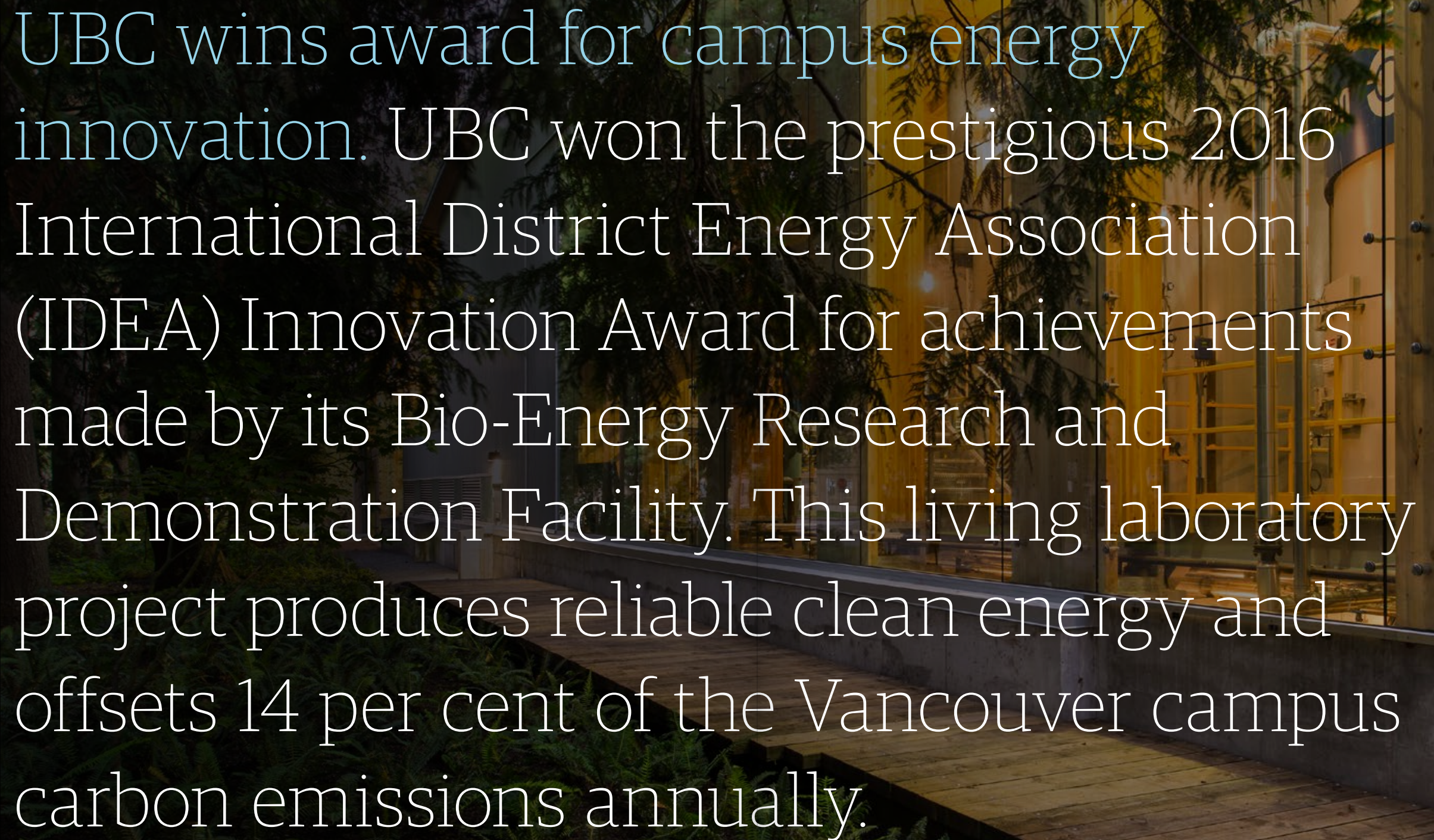
Record setting contingent of UBC Olympians and Paralympians descend on Rio. Twenty Olympic and Paralympic athletes, coaches and staff made up the UBC contingent within Team Canada competing for gold at Rio 2016. The number is a record amount for a Canadian university.

New smart road technology connects rural communities. A rural village in India has a better connection to the world, thanks to an innovative road designed in collaboration with Canadian and Indian companies and UBC that resists heavy rains, intense heat and poor drainage. An IC-IMPACTS demonstration project, this low-cost, long-lasting road technology could be implemented in many rural or remote locations.






UBC a top employer for young people.
UBC was recognized as one of Canada's Top Employers for Young People in 2017, and was the only post-secondary institution to receive this designation. This is the fifth consecutive year that UBC has received this award that acknowledges employers that offer the nation's best workplaces and programs for young people starting their careers.

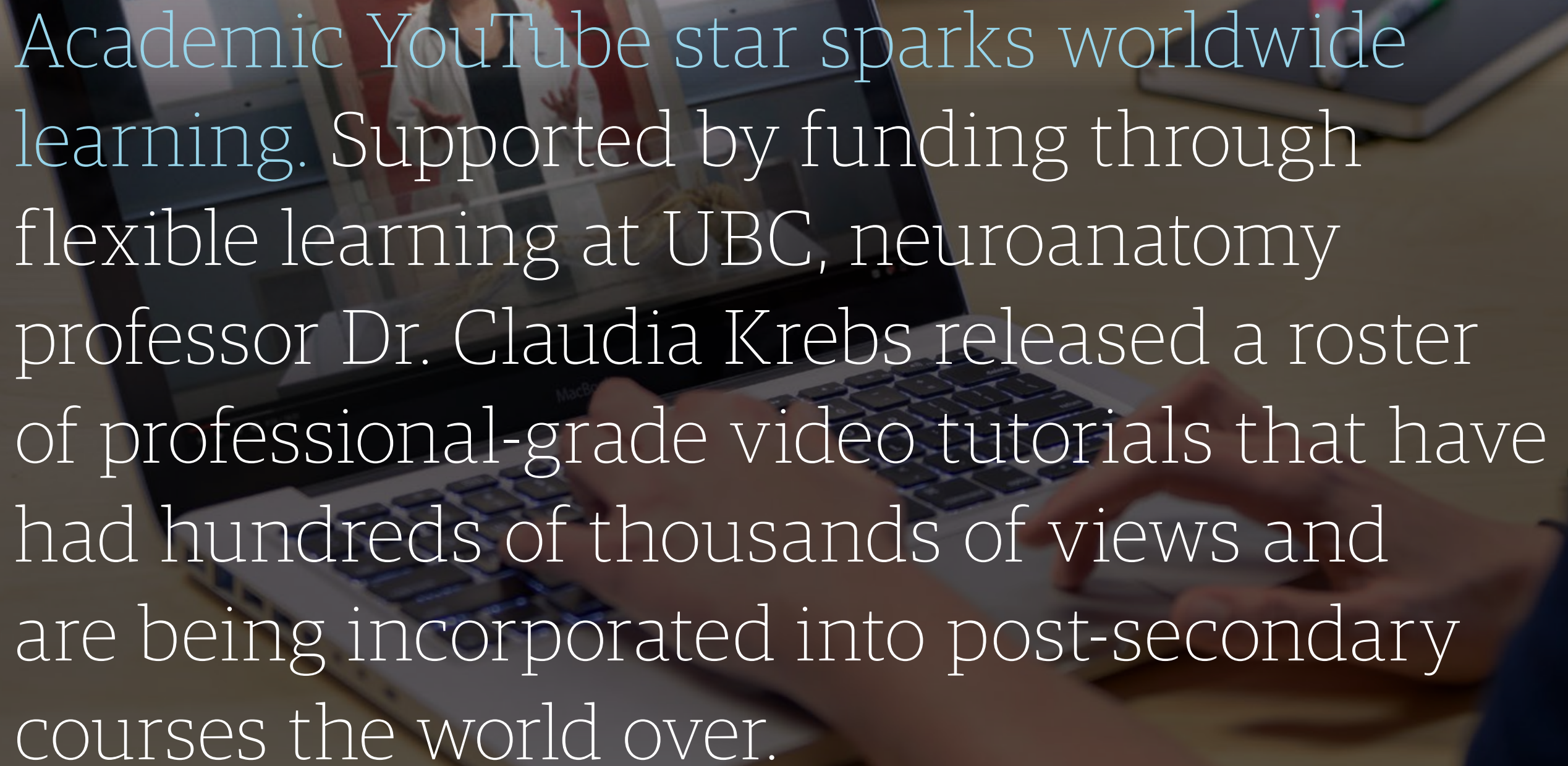


UBC wins award for campus energy innovation. UBC won the prestigious 2016 International District Energy Association (IDEA) Innovation Award for achievements made by its Bio-Energy Research and Demonstration Facility. This living laboratory project produces reliable clean energy and offsets 14 per cent of the Vancouver campus carbon emissions annually.

Traditional Japanese art inspires a futuristic innovation. The ancient Japanese art of flower arranging was the inspiration for a groundbreaking technique to create tiny 'artificial brains' or 'organoids' that could be used to develop personalized cancer treatments. The project, which will study how brain tumours grow and how they can be stopped, was conceived by Christian Naus, a professor in the department of cellular and physiological sciences, with a Japanese company that specializes in bioprinting.

An architectural rendering of a modern building with large glass windows and a wooden roofline. The building is situated next to a body of water with large rocks. Several people are walking on a path in the foreground. The text is overlaid on the left side of the image.

UBC to house Western Canada's first residential school history centre. Scheduled for completion in 2017-18, the Indian Residential School History and Dialogue Centre will provide former students and the public access to residential school records and information in an interactive environment that supports engagement with communities on the history and legacy of Indian residential schools.



Academic YouTube star sparks worldwide learning. Supported by funding through flexible learning at UBC, neuroanatomy professor Dr. Claudia Krebs released a roster of professional-grade video tutorials that have had hundreds of thousands of views and are being incorporated into post-secondary courses the world over.



UBC family medicine residency training expands to the South Okanagan. The addition of UBC's South Okanagan Family Medicine residency site is part of a combined effort by the Faculty of Medicine, the provincial government and health authorities to support the recruitment and retention of physicians to serve the healthcare needs of families throughout British Columbia.

Six Canadian universities partner on groundbreaking health promotion movement.

On October 31, 2016 UBC and five other Canadian universities jointly became the first in the world to adopt the *Okanagan Charter: An International Charter for Health Promoting Universities and Colleges*. UBC committed an additional \$1 million in funding to support wellbeing for all community members on its Vancouver and Okanagan campuses.



Other Highlights

TURNING CHEMISTRY INSIDE OUT: THE NEW FLIPPED CLASSROOM

At UBC Okanagan, Dr. W. Stephen McNeil is making first-year chemistry easier to understand and more relatable to students' everyday lives by shifting away from traditional teaching to a more collaborative, problem-based approach. With funding from the Aspire Learning and Teaching Fund, he is studying the effects on students when they learn this way.

CENTENNIAL LEADERS OVERCOME CHALLENGES FOR BRIGHT FUTURES

Ten gifted students transitioning from secondary school and other post-secondary institutions were named Centennial Leaders award recipients. The students, all of whom are Canadian citizens or permanent residents, could not attend UBC without significant financial assistance. These "full-ride" scholarships will cover everything from tuition, to housing, to food over the course of their studies

SCHOOL-BASED LGBTQ POLICIES MAY REDUCE SUICIDE ATTEMPTS AND HEALTH-CARE COSTS

LGBTQ support programs in schools could significantly reduce suicide attempts, binge drinking and other risky behaviours among both straight and sexual minority students, according to a new report by the UBC School of Nursing and the youth non-profit McCreary Centre Society.

MUSQUEAM POST DEDICATED AT VANCOUVER CAMPUS

sʔi:qəy qeqən (double-headed serpent post) welcomes visitors to campus, and serves as a reminder of UBC's past and future relationship with the Musqueam people, upon whose traditional and unceded territory the Point Grey campus stands.

UBC RESEARCHERS USE AUGMENTED REALITY TO TEACH KIDS ABOUT CLIMATE CHANGE

Thanks to seed funding from the Social Sciences and Humanities Research Council, a video game developed by UBC researchers has been expanded to youth audiences across Canada. The augmented reality game lets players explore the challenges caused by climate change and take on the role of making a better future.

UBC-VANCOUVER COASTAL HEALTH SCIENTISTS FIND GENETIC CAUSE OF MULTIPLE SCLEROSIS

Scientists at UBC and Vancouver Coastal Health have proven that multiple sclerosis (MS) can be caused by a single genetic mutation—a rare alteration in DNA that makes it very likely a person will develop the more devastating form of the neurological disease.

REINTEGRATING LANGUAGE THROUGH ULTRASOUND

Supported by the UBC Teaching and Learning Enhancement Fund and a flexible learning grant, UBC researchers created eNunciate, an innovative program that blends the best of linguistics and language teaching with ultrasound imaging. The tool has helped the WSÁNEĆ First Nation of Vancouver Island create accessible programming for children and adults to reclaim and reintegrate their language.

UBC EARNS GLOBAL SUSTAINABILITY AWARD FOR STUDENT ENGAGEMENT

UBC's SEEDS Sustainability Program received a Green Gown Award for Student Engagement, an international distinction that recognizes university and college sustainability leadership. The award, supported by the United Nations Environment Programme, highlights the SEEDS model of advancing campus sustainability by creating partnerships between students, staff and faculty on impactful research projects.

ARCTIC RISING

Rapid change is occurring in the Arctic as the Earth's temperature rises, impacting every level of the marine ecosystem, from tiny plankton to sea mammals. UBC researchers are racing to capture a snapshot of the chemistry, biology and physics of our northern waters to measure future changes in before it's too late.

DISCOVERY OPENS UP NEW TREATMENTS FOR PROBLEM GAMBLERS

After looking at images of slot machines and roulette, problem gamblers experience increased activity in the insula, the same part of the brain that 'lights up' when drug addicts have cravings, according to a new UBC psychology study. The findings suggest that treatments targeting this small area could be helpful.

ALUMNI DONATE \$2 MILLION TO SUPPORT UBC STARTUPS

Thanks to two \$1-million contributions from alumni Greg Peet and Glenn Walsh, UBC ventures now have access to additional early-stage seed capital to help build their businesses through entrepreneurship@UBC (e@UBC). Such generosity is enabling e@UBC's seed fund to drive innovation and job creation in British Columbia.

NEW UBC STUDENT RESIDENCE IS WORLD'S TALLEST WOOD BUILDING

The structure and façade of UBC's Brock Commons student residence was completed, making it the world's first mass wood/steel/concrete hybrid project taller than 14 storeys. The \$52-million building is a partnership between UBC, government and industry and is expected to welcome more than 400 students in September 2017.

UBC STUDENT CREATES A SENSORY-RICH THERAPEUTIC SPACE

With support from UBC's Centre for Community Engaged Learning, developmental psychology student Natasha Ingeniero worked with Surrey-based Options Community Services Society to create a comforting, multi-sensory playground and therapeutic space that will benefit children with developmental and physical disabilities.

MORE THAN \$38 MILLION IN FUNDING FROM PROVINCIAL AND FEDERAL GOVERNMENTS FOR UBC RESEARCH INFRASTRUCTURE

The B.C. Knowledge Development Fund and Canadian Fund for Innovation announced new funding for over 60 research projects, including providing new equipment for the study of anti-matter, for research on childhood diabetes, and establishing one of the largest DNA (genome) and computing research networks in the world.

OPEN TEXTBOOKS SAVE MATH STUDENTS UP TO \$1 MILLION IN 2016-17

In an effort to customize materials for their courses and save students money on rising textbook fees, instructors in the math department at UBC have adopted open or free textbooks in all first-year courses and most second-year courses.



Our Performance Measures

Research

UBC consistently ranks as one of the world's top research universities. Globally connected, we attract the highest-calibre research faculty and students and \$580 million in research funding each year.

We continue to work to increase the quality and reach of UBC's research and scholarship and strive to be a world leader in knowledge exchange and mobilization. Our research has significant societal and economic impacts, including new products, services, improved health outcomes and contributions to public debate, culture and policy.



Total Annual Research Funding

\$580M

2016-17	\$580M
2015-16	\$600M
2014-15	\$531M

UBC'S SUCCESS IN ATTRACTING RESEARCH funding reflects the quality of our research activity and our competitiveness as a world-leading university. It includes funding from government, industry and not-for-profit partners from across the globe

In 2016-17, we increased our support of research through new initiatives, infrastructure and expertise such as the Sequencing and Bioinformatics Consortium and Advanced Research Computing. Significant funding was also provided to further establish clusters of research excellence at UBC as global leaders in their fields.

Total Tri-Council Funding

2016-17	\$204M
2015-16	\$203M
2014-15	\$194M

Canada’s “tri-council” agency (CIHR, NSERC, SSHRC) grants to support research are awarded through peer-reviewed competitions.

UBC’s Support Programs to Advance Research Capacity (SPARC) office provides exceptional support for grant application development in coordination with faculty grants facilitators.

HIGHLIGHTS

19% UBC’s Success Rate in the Canadian Institutes of Health Research Project Scheme
(Compared to a national average of 16%)

50% UBC’s success rate in the Social Sciences and Humanities Research Council Insight Grants
(Compared to a national average of 40%)

30% UBC’s success rate in Social Sciences and Humanities Research Council Insight Development Grants
(Compared to a national average of 32%)

80% UBC’s success rate in the Natural Sciences and Engineering Research Council Discovery Grants
(Compared to a national average of 67%)

UBC has attracted more partnerships and funding through NSERC’s Engage Grants program than any other university

Times Higher Education (THE) Ranking, 2016-17

36

Academic Ranking of World Universities (ARWU) Ranking, 2016-17

34

Institutional Field Normalized Citation Impact

97%

One measure of the impact of our research activity is the number of times UBC publications are cited. Our publications are highly cited—an indication of the contributions that UBC researchers are making in their fields.

MORE CITED THAN THE GLOBAL AVERAGE

Articles with International Co-Authors

51%

The growing number of UBC publications that had an international co-author over the past five years highlights our strength as a globally-connected research university.

OF UBC RESEARCH PUBLICATIONS INVOLVE INTERNATIONAL PARTNERSHIPS

Teaching and Learning

UBC has emerged as a global leader in applying research findings to improve teaching practices. We continuously strive to advance educational technologies and to provide a world-class experience to a broad range of learners.

Fostering teaching excellence at UBC means that we are transforming the student experience by providing innovative, evidence-based learning opportunities. We recruit and support a diverse class of exceptional graduate and undergraduate students to keep our campuses vibrant and to provide our students with a global perspective.



Student Satisfaction



UNDERGRADUATE STUDENT SATISFACTION
UBC VANCOUVER (2015-16), SAME RESULT AS 2014-15

OVER THE PAST FEW YEARS, UBC has been taking bold steps to provide an exceptional learning environment for our students. We monitor the quality of the academic experience of our undergraduate students through their responses to the Undergraduate Experience Survey question that assesses the percentage of students rating their satisfaction with their overall education experience on a six-point scale from “very dissatisfied” to “very satisfied.”

UNDERGRADUATE STUDENT SATISFACTION
UBC OKANAGAN (2015-16), SAME RESULT AS 2014-15

We are beginning to see the results of our efforts to transform teaching and learning at UBC—we have maintained high student satisfaction levels over the past five years at both of our campuses. These results will continue to inform our efforts to enhance students’ academic experience.

Domestic Student Enrolment

46,036

UBC FULL-TIME EQUIVALENTS (FTEs), 108.5%
OF FTE TARGET (+0.32% FROM 2015-16)

The BC Ministry of Advanced Education sets targets for, and funds, domestic student full-time equivalents (FTEs), a measure of the course load activity of the students enrolled. UBC consistently exceeds its enrolment targets for domestic students.

Student Wellbeing

2015-16	84%
2014-15	87%

UBC VANCOUVER: % OF STUDENTS THAT
FEEL THEY ARE COPING WELL

2015-16	89%
2014-15	89%

UBC OKANAGAN: % OF STUDENTS THAT
FEEL THEY ARE COPING WELL

The wellbeing of our community members is a priority at UBC. Across portfolios and departments, UBC students, faculty, researchers and staff are recognizing the role wellbeing plays in fostering excellence. We are taking a holistic approach to facilitating physical, mental and social health on our campuses.

One measure of the positive effects of our efforts to support student wellbeing is favourable responses to the Undergraduate Experiences Survey item: "I'm confident in my ability to cope with the demands of my life." Monitoring how are students feel they are coping with life gives UBC a measure of the demands on students and the performance of our student support services. It also alerts us to mental wellbeing issues such as stress, anxiety and depression, allowing us to increase supports as needed.

International Student Enrolment

14,433

INTERNATIONAL UNDERGRADUATE AND
GRADUATE STUDENTS AT UBC

As North America's most internationally-engaged university, UBC prepares our graduates for success in today's global society. UBC is home to 14,433 international undergraduate and graduate students from 150 countries who together contribute to a global learning environment.

We continue to invest in initiatives to attract top students from countries around the world.

BREAKDOWN

10,059	Number of international undergraduate students on the Vancouver campus (23.4% of undergraduate students on Vancouver campus, up 1.8% from 2015-16)
1,002	Number of international undergraduate students on the Okanagan campus (12.7% of undergraduate students on Okanagan campus, up 1.5% from 2015-16)
3,115	Number of international graduate students on the Vancouver campus (32% of graduate students on Vancouver campus, down 0.2% from 2015-16)
249	Number of international graduate students on the Okanagan campus (31.6% of graduate students on Okanagan campus, up 1.9% from 2015-16)

Strategic Course and Program Transformation

231

NUMBER OF COURSES TRANSFORMED,
REACHING 46,350 STUDENTS* AT UBC
VANCOUVER (*20,406 UNIQUE STUDENTS)

UBC encourages faculty members to use evidence-based and technology-enabled teaching practices to improve the student learning experience.

This work is supported across UBC. On the Vancouver campus, the Teaching and Learning Enhancement Fund (TLEF) has funded more than 1,000 innovative projects since its start in 1991. In 2016, we launched the Aspire Learning and Teaching Fund on our Okanagan campus and supported seven projects that we expect to benefit students in all faculties over the next three years.

Courses with Significant Aboriginal Content

2016-17	138	45
2015-16	128	48
2014-15	121	52

NUMBER OF COURSES WITH SIGNIFICANT
ABORIGINAL CONTENT AT UBC
▪ UBC VANCOUVER ▪ UBC OKANAGAN

UBC is working to ensure our curricula is responsive to the concerns of Aboriginal people, offers consideration of issues of importance, and that an understanding of Indigenous history—a full and accurate understanding of Canadian history—is part of the education of *all* students, whatever their field of study.

This measure tracks courses at UBC that incorporate Indigenous issues and perspectives and help prepare students to interact with Aboriginal communities.

Aboriginal Student Enrolment

1,637

ABORIGINAL UNDERGRADUATE AND
GRADUATE STUDENTS AND RESIDENTS
AT UBC

We are committed to addressing systemic challenges for Aboriginal students seeking to obtain postsecondary education and are developing strategies at the central and faculty levels to ensure that qualified First Nations, Métis and Inuit students have clear pathways to admission to UBC programs.

In addition to policies that support direct admission in many faculties for Aboriginal students, the UBC-Langara Aboriginal Transfer Program has been expanded to include transfer admissions to more faculties at our Vancouver campus, and programming through Aboriginal Access Studies at UBC Okanagan continues to grow.

BREAKDOWN

928

Number of Aboriginal undergraduate students and residents at UBC Vancouver (Up 12% from 2012-13)

232

Number of Aboriginal graduate students at UBC Vancouver (Up 11% from 2012-13)

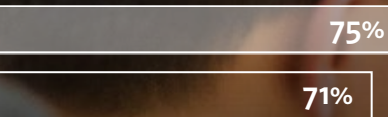
438

Number of Aboriginal undergraduate and access students at UBC Okanagan (Up 20% from 2012-13)

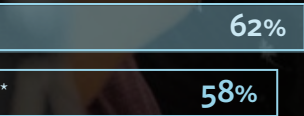
39

Number of Aboriginal graduate students at UBC Okanagan (Up 8% from 2012-13)

Experiential Learning



UBC VANCOUVER: % OF UNDERGRADUATE STUDENTS THAT PARTICIPATED IN ENRICHED EDUCATIONAL OPPORTUNITIES



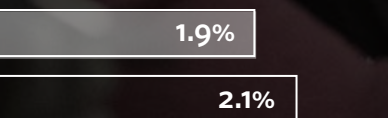
UBC OKANAGAN: % OF UNDERGRADUATE STUDENTS THAT PARTICIPATED IN ENRICHED EDUCATIONAL OPPORTUNITIES

At UBC, university isn't just about learning in the classroom environment. We collaborate with community, industry, government and university partners to provide an enormous breadth of variety of enriching, transformative learning experiences to our students.

Most of our students participate in community service learning, research, internships, mentorships, international exchanges or co-ops, and we're integrating experiential learning opportunities into a wider range of programs to make them more accessible to students than ever. The benefits are clear: students' satisfaction with their overall experience and confidence in their future grow exponentially when they apply their learning to tangible real-world experiences.

**Based on graduating undergraduate students' responses to the Undergraduate Experience Survey.*

Undergraduate Students Going on International Exchanges



UBC VANCOUVER: % OF UNDERGRADUATE STUDENTS ON INTERNATIONAL EXCHANGES



UBC OKANAGAN: % OF UNDERGRADUATE STUDENTS ON INTERNATIONAL EXCHANGES

We live in a globalized world, and UBC students are an active part of it. More than 22,000 of our students have experienced the culture of another region through one of the many international experiences offered by our Go Global programs. International experiences build independence, initiative and adaptability—important traits that employers are constantly on the lookout for.

This measure tracks the number of undergraduate students who have chosen to study for a term or two at one of our 300 university partners worldwide through Go Global. UBC will continue to support our students to engage in international exchange opportunities around the world.

Campus and Community Engagement

UBC exists for the communities it serves: local, provincial, national and global. Our contributions to a better world depend on our connections with our communities.

Our combined experiences, expertise and knowledge are needed to address the salient questions of our time, and we value the open exchange of ideas.



We recognize that past educational practices have worked to the detriment of Aboriginal peoples. UBC is committed to advancing understandings of Indigenous perspectives and histories and to developing partnerships that speak clearly to community priorities.

We model our values. Our campuses are living laboratories—places to explore and exemplify all aspects of economic, environmental and social sustainability.

People are at the heart of UBC. Our ability to foster positive change is founded on the collective achievements of students, faculty, staff and alumni, amplified by the power of our relationships around the world.



Engaged Alumni

65,222

ALUMNI ENGAGED WITH UBC (UP 13 PER CENT FROM 2015-16)

A REMARKABLE 20 PER CENT of our global community of alumni contributed to UBC’s success in 2016-17 as lifelong learners, donors, mentors to students and in other meaningful ways. The *start an evolution campaign*, our centennial celebrations and the new Robert H. Lee Alumni Centre have deepened our connections with our graduates in recent years; today more alumni are engaged on an annual basis with UBC than ever before.

The *alumniUBC* five-year strategic plan, *Connecting Forward*, came into effect in April 2017 and outlines our goals to continue building fruitful relationships with UBC alumni in the coming years.

Industry-sponsored research collaborations in FY2016

1,342

(UP FROM 1,261 IN 2014-15)

\$53M

\$53.2 MILLION TOTAL FUNDING

Contracts and agreements with governments and non-profit partners in FY2016

824

(UP FROM 809 IN 2014-15)

\$81M

\$80.9 MILLION TOTAL FUNDING

Knowledge Sharing and Public Exchanges

2016-17	1,846	2,086
2015-16	1,500	1,600
2014-15	1,100	1,255

PARTICIPATION IN PUBLIC DIALOGUE INITIATIVES

- WALL EXCHANGE (UBC-V)
- DISTINGUISHED SPEAKER SERIES (UBC-O)

UBC’s public dialogue and knowledge sharing events attract thousands of participants every year. The Distinguished Speakers Series at our Okanagan campus and The Wall Exchange, held in Vancouver and presented by the Peter Wall Institute for Advanced Studies, are two of UBC’s large public dialogue initiatives.

Tracking participation in these two events provides an illustrative example of how UBC provides open spaces for dialogue to foster public understanding of societal issues. UBC is developing institutional indicators of community engagement.

Faculty and Staff Engagement

2016	6.0%
2015	6.8%

UBC FACULTY AND STAFF VOLUNTARY TURNOVER (ALL EMPLOYEES, CALENDAR YEAR)

Together UBC’s 15,000 employees have helped to create one of the world’s leading academic institutions and one of Canada’s best places to work.


Our voluntary turnover rate and the number of faculty and staff who would recommend UBC as a good place to work provide us with a baseline to measure of our efforts to provide a fulfilling work environment that reflects our commitments to diversity and wellbeing.

While our 2016 voluntary turnover rate and the scores on the Workplace Experiences Survey, which was last conducted in 2014, perform well against external benchmarks, we continue to focus on opportunities to improve and enhance the faculty and staff experience. Through the Focus on People framework, we have invested in priorities that include a refreshed orientation and onboarding program, recognition programs, health and wellbeing initiatives, and leadership development programs.

RESPONSES TO WORKPLACE EXPERIENCES SURVEY (2014)

62% Per cent of UBC faculty who would recommend UBC as a good place to work in 2014 (Compared to 59% in 2011)

73% Per cent of UBC staff who would recommend UBC as a good place to work in 2014 (Compared to 74% in 2011)



Greenhouse Gas (GHG) Emissions Reduction

34%

UBC VANCOUVER (2016): ABSOLUTE
REDUCTION IN GHG EMISSIONS SINCE 2007

UBC has been a global leader in sustainability for two decades, including opening Canada's first sustainability office in 1997 and meeting its Kyoto target for emissions reduction in 2007. By the end of 2016, despite growth in floor space and student enrolment, we succeeded in reducing carbon emissions by 34 per cent below the 2007 emissions baseline, meeting our Climate Action Plan 2015 target. Our aggressive reductions in GHG emissions have been possible with the addition of a bioenergy facility, replacing our aging heating system with an efficient hot water system and implementing building energy efficiency programs. Additional initiatives are underway to help us move toward our targets of 67 per cent reduction by 2020 and 100 per cent by 2050. UBC Okanagan has also made significant improvements, despite a growing campus, through transit improvements and clean energy projects.

40%

UBC OKANAGAN (2015): REDUCTION IN
GHG EMISSIONS PER STUDENT FTE SINCE
2007* (*DUE TO THE AVAILABILITY OF
DATA, 2007 BASELINE INCLUDES BUILDING
EMISSIONS ONLY)

Gold Rating in STARS

2

SECOND CONSECUTIVE 'GOLD' RATING FOR
SUSTAINABILITY (2015)

UBC's sustainability efforts continue to earn recognition. In 2015 we obtained our second consecutive STARS (Sustainability Tracking, Assessment, and Rating System) Gold rating. STARS is a comprehensive university-sustainability rating system by the Association for Advancement of Sustainability in Higher Education.

In 2011 UBC was Canada's first university to achieve a Gold STARS rating. STARS is a voluntary, self-reporting framework which allows us to report our sustainability-focused activities and performance against a set of common measurements.

Financial Highlights

UBC is working to remain nimble in the face of constant changes across the educational and economic landscapes.

Limited public funding, fierce competition for research dollars and the rapid growth of free digital education mean we must diversify our revenue sources and sustainably manage our assets.



Domestic student tuition represents only 11 per cent of our operating revenue, yet our enrollment of Canadian students consistently exceeds provincial targets. Increased revenue from new program offerings and international student tuition has allowed us to reduce our reliance on government funding—all while increasing financial aid and investing in a world-class teaching environment for all students.

The growth of our endowment—up to \$1.98 billion in 2016-17—also plays an important role in UBC's long-term financial sustainability, giving us the resources to increase our excellence and impact.

We continue to explore operational efficiencies and invest strategically to advance our academic strategy.

Taken together, these financial moves, along with prudent management, have helped us balance our budget for the eighth year in a row and earn credit rating from S&P of AA+.

The following is a snapshot of our efforts this year to ensure we are delivering top-tier education and world-changing research well into the future.



Consolidated Revenues

2016-17 TOTAL CONSOLIDATED REVENUES

\$2.388B

REVENUE CATEGORY

- 1 Provincial operating grant (\$598M)
- 2 Tuition and fees (\$524M)
Student tuition and fees, comprising domestic students, international students, graduate students and professional programs on campus.
- 3 Revenue from faculties and central units (\$468M)
Revenue from services provided on campus, including student housing, food services, the bookstore and parking, and other faculty revenues.
- 4 Research (\$414M)
Contributions from corporations and foundations to cover a portion of the University's research, plus the federal grant to cover costs associated with Tri-council research.
- 5 Other revenue (\$316M)
Includes revenue recognized from specific purpose activities and awards, and revenue earned from UBC's subsidiaries.
- 6 Endowment investment income (\$68M)

- 1 \$598M
- 2 \$524M
- 3 \$468M
- 4 \$414M
- 5 \$316M
- 6 \$68M

Consolidated Expenses

2016-17 TOTAL CONSOLIDATED EXPENSES

\$2.297B

EXPENSE CATEGORY

- A Faculties (\$914M)
Operating expenses of the faculties, including salaries and benefits of faculty and staff, teaching support for students, and supplies.
- B Research (\$435M)
The cost of supporting UBC research through functions such as strategic research planning, services for UBC researchers and support of research facilities.
- C Expenses from central units (\$400M)
Expenses relating to services provided on campus, including student housing, food services, the bookstore and parking.
- D Facilities (\$315M)
Building maintenance costs including repairs, utilities, waste management, landscaping, plus insurance and campus security.
- E Other expenses (\$233M)
Includes expenses incurred from specific purpose activities and awards, and expenses incurred from UBC's subsidiaries.

- A \$914M
- B \$435M
- C \$400M
- D \$315M
- E \$233M

Excellence Fund

2016-17 FUNDING AVAILABLE

\$6.36M

The UBC Excellence Fund, established in February 2016, will support UBC's ambition to become Canada's best university over the next decade. The fund dedicates a significant portion of our annual revenue to attracting and retaining exceptional faculty and students, fostering innovative research and creating a world-class learning experience.

EXPENSES (2016-17 CONSOLIDATED)

- 1 Building and supporting world class research infrastructure to enable innovative, cutting-edge research (\$2.172M)
- 2 Recruiting and retaining exemplary faculty members (\$1.42M)
- 3 Recruiting and retaining exemplary student and staff (\$1.08M)
- 4 Providing an excellent student learning experience for domestic and international students, at the graduate and undergraduate levels, both inside and outside the classroom (\$690K)
- 5 Unspent committed funds (\$1M)

1 \$2.17M

2 \$1.42M

3 \$1.08M

4 \$690K

5 \$1M

Capital Expenditures

2016-17 TOTAL ADDITIONS

\$334M

A \$135M

BREAKDOWN

- A Major building projects (\$135M)
Major building projects in 2016-17 includes Orchards Commons, Brock Commons Tall Wood Student Residence P1, Totem Park Residence In-Fill 2, the Quantum Matter Institute/AMPEL, Undergrad teaching labs, Ponderosa Commons 2, and the Aquatic Centre.
- B Building renovations/additions (\$96M)
- C Equipment and furnishings (\$73M)
- D Library books (\$18M)
- E Capital infrastructure (\$12M)

B \$96M

C \$73M

D \$18M

E \$12M

Endowment

2016-17 ENDOWMENT FUNDS

\$1.982B

UBC's endowment fund contributes to UBC's mission of academic excellence by providing continued financial support for research and teaching. Funds from donors and land lease revenues are invested and managed prudently for future generations. Since 2012, net revenue from land development has been used to finance student housing.

BREAKDOWN

- A Specific purpose (\$1,037M)
Supports arts, athletics, sciences, student learning, medical and other research, as well as many other specific purposes.
- B Land lease proceeds endowment funds (\$572M)
Supports academic excellence, including faculty recruitment, research and numerous building projects.
- C Awards (\$373M)
Supports UBC student scholarships and bursaries in athletics, fine arts, music, medicine and other disciplines.

A \$1,037M

B \$572M

C \$373M

Residences

2017 TOTAL NUMBER OF RESIDENCE BEDS

13,474

BREAKDOWN

- 1 Residence beds on UBC Vancouver campus (11,796)
Up from 11,038 in 2016 due to opening of Brock Commons Tall Wood and Totem Park In-fill Phase 2
- 2 Residence beds on UBC Okanagan campus (1,678)
Same as 2016

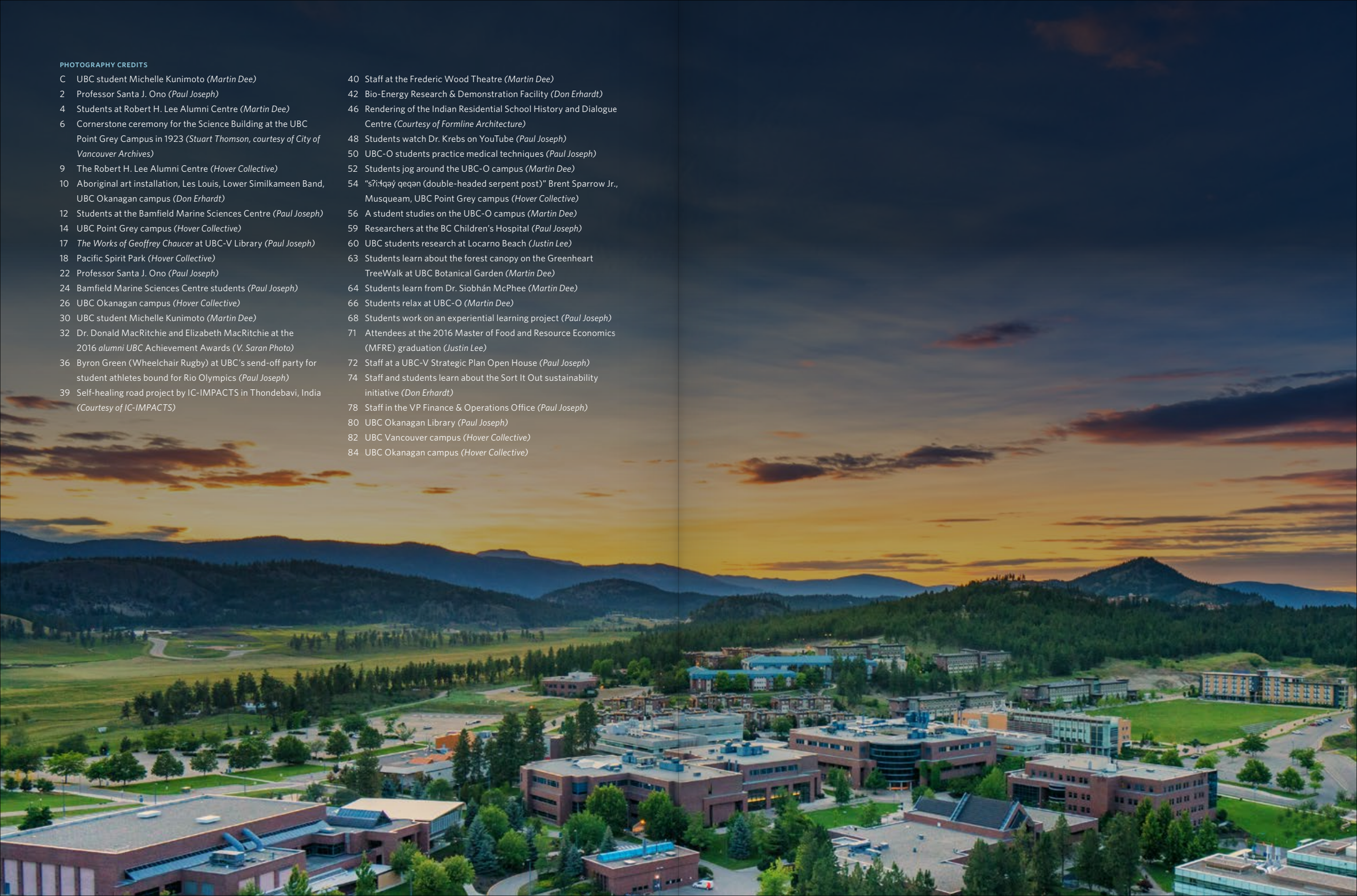
1 11,796

2 1,678

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- 2 Professor Santa J. Ono (Paul Joseph)
- 4 Students at Robert H. Lee Alumni Centre (Martin Dee)
- 6 Cornerstone ceremony for the Science Building at the UBC Point Grey Campus in 1923 (Stuart Thomson, courtesy of City of Vancouver Archives)
- 9 The Robert H. Lee Alumni Centre (Hover Collective)
- 10 Aboriginal art installation, Les Louis, Lower Similkameen Band, UBC Okanagan campus (Don Erhardt)
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THE UNIVERSITY OF BRITISH COLUMBIA

