

Carleton UNIVERSITY



**156TH CONVOCATION
2020 & 2021**

June 16, 2022
Ceremonies 13 and 14

2022 Spring Convocation

(2020 + 2021 Graduates)

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Share your memories using the hashtag **#CarletonConvocation**

O Canada

O Canada! Our home and native land!

True patriot love in all of us command,

Car ton bras sait porter l'épée,

Il sait porter la croix!

Ton histoire est une épopée

Des plus brillants exploits,

God keep our land glorious and free!

O Canada, we stand on guard for thee.

O Canada, we stand on guard for thee.

Convocation at Carleton University

History

Carleton University is unique within the Ontario university system for several reasons. It was founded in 1942, not by state or church, but through a community movement initiated by the YMCA to provide non-sectarian education for the thousands of men and women who came to Ottawa in support of the war effort. Because of these roots, Carleton has, throughout its history, attempted to meet the needs of the community by making its programs and resources widely available through innovative technologies and lifelong learning opportunities.

Today, Carleton stands among the best comprehensive universities in Canada. It is a dynamic, research-intensive university, committed to providing an outstanding learning experience for more than 31,000 students. The university offers more than 150 majors, specializations and concentrations in areas as diverse as public affairs, journalism, art and culture, engineering, high technology and international studies.

Today's Convocation ceremony (the calling together of the academic assembly) has its roots in university traditions of medieval Europe.

Coat of Arms



The coat of arms was presented to the university by His Excellency The Right Honourable Ramon John Hnatyshyn, Governor General of Canada, on November 15, 1992, as part of Carleton's 50th

anniversary celebrations. It is described in heraldic terms as follows: Sable a maple leaf Gules irradiated and charged with an open book Argent; And for a Crest: On a wreath Argent Sable and Gules a Phoenix Gules quilled and beaked Or issuing from flames proper; And for a Motto: Ours the Task Eternal; And for Supporters: on a grassy mount on either side a raven Sable beaked and membered or armed Gules.

The open book on the maple leaf signifies that Carleton University is in the nation's capital and that learning is open to all who wish to partake of it. The phoenix, the legendary eternal bird, symbolizes the renewing of learning from older foundations, in recognition of Henry Marshall Tory's role in the founding of the university when he was 78 years old. Ours the Task Eternal is taken from a Walt Whitman poem entitled Pioneers and ties in with the eternal quality of the phoenix.

The Carleton University coat of arms therefore symbolizes sound learning, good citizenship, and the highest hopes of humanity.

The Mace



The mace is a staff symbolizing authority. In the days of knighthood, it was a weapon, but after the 16th century, it became solely a symbol of authority carried by a distinguished member of an assembly. It is used on ceremonial occasions to signify the right of an individual or institution to perform a certain function — in the case of universities, to grant degrees.

At Convocation, the mace is carried by the Marshal of Convocation. During the ceremony, the mace is displayed

as an embodiment of the authority of the university.

Carleton's mace was presented to the university in 1976 as a gift from the Chair of the Board of Governors at that time, Mr. Hyman Soloway. It is a silver-plated staff about one metre long. At the upper end there is a bowl marked with the university's coat of arms and the university motto in Latin and English — Opera Nobis Aeterna and Ours the Task Eternal. From the upper portion of the bowl rises a phoenix. Traditional oak leaves surround the lower end of the staff.

Centre for Indigenous Support and Community Engagement – Eagle Staff

The Eagle Staff is sacred to many Indigenous peoples. It represents the strength and resilience of Indigenous communities and is traditionally carried by someone who has served their community in combat, in leadership or spiritually. The Eagle Staff is a Grandmother staff and was created to be nurturing to our students. It was created by Joel "Bear" Babin who is Algonquin from Wahgoshig First Nation, and who practises Mitawin Traditional ceremonies. Mink fur on the staff represents the best of luck and success to our graduates. The Desert Eagle Hawk's feathers on the staff protect the Northern Flicker's feathers, symbolizing that we are there to guide our students. There are 12 feathers on the staff from a juvenile female eagle. Sage and Sweetgrass are attached and the braided material signifies our ties to the students and the colours represent the walks of life.

The Diploma

The diploma graduates receive at Convocation is the certificate of qualification which publishes the fact that the student has fulfilled all the requirements and completed the prescribed course of study for the degree. As the senior academic legislative body of the university, it is the Senate which has determined whether the requirements have been met. The signatures of the Chancellor and the President of the university appear on the diploma: the Chancellor because of his or her role in conferring the degree, and the President who, as Chair of Senate, certifies that Senate has enacted the required motion to award the degree. The seal of the university is affixed to the diploma as a mark of authentication.

Academic Dress

The academic dress of Carleton University results from a compromise between that found in the ancient foundations of Britain and Canada and the American Intercollegiate Code.

As well, Indigenous graduates and faculty may choose to wear traditional Indigenous clothing in lieu of a gown. The hood may be carried rather than worn, depending on cultural protocols. Carleton acknowledges the diversity of Indigenous peoples, communities and nations and recognizes that traditional Indigenous clothing may vary.

All three academic hoods — bachelor's, master's and doctor's — are of the simple or Oxford shape. The bachelor's hood is made of black stuff. The master's and doctor's are made of black silk. All are lined with silver silk, with two chevrons, one of red and one of black. From bachelor's to doctor's, the hoods are progressively longer and opened to show more of the lining.

The velvet border of the hoods denotes the degrees granted according to the following colour combinations. In some cases a distinguishing cord is sewn slightly in from the lower border: accounting is lemon yellow; applied business analytics is emerald green; applied science is orange with a black cord; architecture is hot pink; architectural studies is hot pink with a black cord; arts is white; business administration is camel brown with a black cord; cognitive science is sky blue with a gold cord; commerce is camel brown; communication and media studies is navy blue; computer science is walden blue; economics is old gold; engineering is orange; entrepreneurship is palmetto green; global and international studies is lavender; health sciences is firebird red; human computer interaction is smoke blue; humanities is white with a red cord; industrial design is toreador red; master of information technology is maize; bachelor of information technology is maize including a green chevron to denote the joint degree and applied diploma from Carleton University and Algonquin College respectively; infrastructure protection and information security is sky blue with a red cord;

international business is camel brown with a red cord; journalism is white with a black cord; journalism and humanities is white with a black and red cord; mathematics is hunter green; media production and design is white with a black and gold cord; music is pink; philanthropy and non-profit leadership is toreador red with a black cord; political management is sky blue with a black cord; public affairs and policy management is peacock with a gold cord; public policy and administration is peacock with a black cord; science is Spanish yellow; social work is crimson; and doctor of philosophy is royal purple.

The master's and bachelor's gowns, to be worn with the above hoods, are of full length, made of black stuff, with a gathered yoke behind, and long open-fronted sleeves. The doctoral gown is of full-style, made of fine royal blue cloth with facings of light blue silk, with a full gathered yoke behind, and closed sleeves with an opening at the elbows.

The two shades of blue in the doctoral gown are those of the United Nations, and recognize the university's long-standing interest, from its earliest years, in international affairs and issues. The colours were chosen when the university awarded its first honorary degree in 1954 to the second secretary-general of the United Nations, Dag Hammarskjöld. The tradition of awarding honorary degrees to secretaries-general of the United Nations has continued since that time.

The gown of the honorary Doctor of Laws, Literature, Music, Science, Engineering, Architecture or Fine Arts is a full robe with square collar at the back and modified T Sleeve. It is made of royal blue cloth with light blue facings that continue around the back. The light blue also trims the bottom edge and slit of the modified sleeve.

The hood has the same lining as that for the degrees granted by examination, and is bordered with royal purple for the degree of Doctor of Laws; vibrant blue for the degree of Doctor of Literature; pink for the degree of Doctor of Music; red for the degree of Doctor of Science; orange for the degree of Doctor of Engineering; hot pink for the degree of Doctor of Architecture; and dark cardinal for the degree of Doctor of Fine Arts.

Alumni Hall

The Alumni Hall and Sports Centre opened in 2005, and serves more than 750,000 visitors every year. The new centre has tripled the usage for athletic and other activities and has doubled the size of the cardio facilities at the university. The Alumni Hall and Sports Centre, which also houses the Ravens' Nest, the home of men's and women's varsity basketball teams, welcomes graduands and their families twice a year during Spring and Fall Convocation ceremonies. The Carleton University Alumni Association donated \$2.5 million towards construction of this exceptional facility.

Officiating Officers

Chancellor



Yaprak Baltacioğlu, LL.B., M.A.

Yaprak Baltacioğlu has been one of Ottawa's most seasoned deputy ministers, serving as a trusted advisor to Prime Ministers and numerous ministers. Over her career, she has led the Departments of Agriculture and Agri-Food, Transport, Infrastructure, and Treasury Board Secretariat. Now retired, Baltacioğlu serves on the Boards of Deloitte Canada and Chile, MDA, Canadian Standards Group, Canadian Nuclear Laboratories and Ottawa Hydro. She is a Senior Distinguished Fellow at the University of Toronto's Munk School of Global Affairs and Public Policy. Baltacioğlu is a Member of the Order of Canada.

President and Vice-Chancellor



Benoit-Antoine Bacon, Ph.D.

Benoit-Antoine Bacon was appointed as President and Vice-Chancellor on July 1, 2018, and was recently renewed for a second five-year term. He joined Carleton from Queen's University where he served as Provost and Vice-Principal (Academic). His first academic appointment was at Bishop's University. He is a three-time recipient of Bishop's Merit Award for exceptional performance in teaching and research. Bacon holds a Ph.D. in neuropsychology from the University of Montreal, after which he completed an NSERC-funded postdoctoral fellowship at the University of Glasgow in Scotland. His research in the field of cognitive neuroscience focuses on the links between brain activity and perception in the visual and auditory systems, as well as on multi-sensory integration.

Chair of the Board of Governors



Dan Fortin, B. Eng

Dan Fortin retired as President of IBM Canada Ltd, July 2014. With over 35 years of experience, he has held a number of senior positions in Canada and internationally. Today, Fortin is active on a number of boards. He is currently the Chair for Foresters Financial, Carleton University's Board of Governors, and Evok Innovations, a Cleantech Venture Capital Fund. He also serves as an independent director of Definity Financial. Fortin has a Bachelor of Civil Engineering from Carleton University and received an Honorary Doctorate in 2009. He holds the Institute of Corporate Directors' Designation and has earned a Cyber Security Board Oversight certificate from Carnegie Mellon.

The Presiding Officer of Convocation for today's ceremonies is the Chancellor of the University, Yaprak Baltacioğlu, LL.B., M.A.

Accompanying her on the podium is the President and Vice-Chancellor of the University, Benoit-Antoine Bacon, Ph.D.

Assisting the Chancellor

Marshal of Convocation

Elinor Sloan, *Ph.D.*

Professor, Faculty of Public Affairs

Betina Appel Kuzmarov, *Ph.D.*

Associate Professor, Faculty of Public Affairs

Donald L. Russell, *Ph.D.*

Professor, Faculty of Engineering and Design

Eagle Staff Carrier

Keely Thompson-Cook

Mohawk – Akwesasne Mohawk Territory

Michaela Michaud-Hunter

Ojibwe

The university acknowledges the many faculty, staff, campus departments and ancillary operations for their valuable contribution to the success of the Spring 2022 Convocation ceremonies.

University Awards

2020/21 Founders Award



Carleton University's highest non-academic honour recognizes and pays tribute to those individuals who have made significant contributions to the advancement of Carleton University through their dedication, generosity and commitment to the values of the university.

Margaret Haines, BA, MLS, FCLIP, Hon FCLIP

Following an accomplished career in Canada and abroad, Margaret Haines returned to Carleton, her alma mater, in 2006 to serve as University Librarian.

As a mentor and guide, Haines has supported numerous staff and librarians, but it was her vision to see the library at the heart of the university and community that remains her lasting legacy.

In collaboration with Alan Steele and the Provost's Office, Haines oversaw the most significant renovation in MacOdrum Library's history. Since its completion in 2013, it remains the hub of campus, providing a flexible and inspirational learning space for all who enter its doors.

Since retiring in 2016, Haines has remained active in the Carleton community. She currently volunteers on the Carleton University Retirees Association Executive, the Retirees Engagement Committee, and on Senate as the Alumni Association Senate representative.

Haines holds a Bachelor of Arts ('70) from Carleton University and a Master of Library Science ('75) from the University of Toronto.

2019/20 Board of Governors Award for Outstanding Community Achievement



The Board of Governors Award recognizes the spirit of student volunteerism and substantial community contribution while studying full time at Carleton University.

Francesca Tsimiklis, B.Eng, MASc

For her contribution to both the Carleton and Ottawa communities, Tsimiklis was presented with the 2019/20 Board of Governors Award for Outstanding Community Achievement.

Over the course of her eight years at Carleton, Tsimiklis was an active member in the Carleton University Biomedical Engineering Society, participating in the faculty's mentorship program, and working as a tour guide for Engineering Outreach and Recruitment. Tsimiklis was also part of the Carleton University Women in Science and Engineering Carleton Chapter program, and an invited panelist for GoEngGirl.

While completing her master's degree, Tsimiklis continued to volunteer extensively at the Glebe Centre in a number of musical therapy programs, assisting those suffering from dementia in the "Music and Memory" program.

Tsimiklis is currently an Associate Engineer at Abbott.

2020/21 Board of Governors Award for Outstanding Community Achievement



The Board of Governors Award recognizes the spirit of student volunteerism and substantial community contribution while studying full time at Carleton University.

Millicent Close, BHSc

Now graduated with a bachelor's degree in Health Sciences, Close managed to successfully complete her full-time studies while undertaking an honors field placement, balancing three part-time jobs, and fulfilling multiple volunteer roles.

Throughout her studies, Close demonstrated an ongoing dedication and commitment to the well-being and empowerment of her fellow students. She volunteered on a number of science committees, including the Carleton Science Student Society (CSSS) where she served two terms as president and CEO.

Close further lent her altruistic pursuits to the greater Carleton community by volunteering as a peer mentor in the Science Student Success Centre for four years while actively participating in Carleton's governance. She was a member of the Carleton Academic Student Government (CASG) and served as the undergraduate student representative for the Faculty of Science on Carleton University's Senate for three years.

Close now works for Undergraduate Recruitment at Carleton University.

Medallists in the Graduating Class

Governor General's Medal

Awarded annually to a student standing at the head of the graduating class at the graduate and undergraduate levels

Donor: Her Excellency the Governor General of Canada

2020

Catherine Chokly
Lucas Samuel DiRienzo
Anita Pari
Andrea Jane Reid

2021

Hanane Hadj-Moussa
Cole Dennis Johnson
Christopher Karpinski
Janna Lyn Klostermann
Sarah Rosa

Chancellor's Medal

Awarded annually in the name of the Chancellor of the university to a graduating student of outstanding academic achievement

2020

Sara Katharine Garden
Silas Raven Xuereb

2021

Charles Allan Bruinink Hutchinson
Simon Martial Kuttner
Christopher JiaJun Wang

President's Medal

Awarded annually in the name of the President of the university to the student with the highest standing in a general degree program of studies

2020

Rebecca Marie Butler
Ariane Renaud

2021

Justine Ann Brown
Reilly Michelle Dwyer

University Medal for Outstanding Graduate Work

Doctoral level

Awarded, when merited, for outstanding graduate work at the doctoral level

2020

Andrea Jane Reid
Fateme Zabihollahy

2021

Simon Darrell Baldwin
Janna Lyn Klostermann

Master's level

Awarded, when merited, for outstanding graduate work at the master's level

2020

Alicia Louise Haniford
Natasha Knack

2021

W. Aline Ingelson-Filpula
Caitlyn Alissa Proctor

University Medal

Awarded annually, when merited, to the graduating students standing highest in architectural studies, arts, cognitive science, commerce, communication and media studies, computer science, economics, engineering, global and international studies, health sciences, humanities, industrial design, information technology, interfaculty studies, international business, journalism, journalism and humanities, mathematics, music, public affairs and policy management, science, and social work

2020

Architectural Studies
Jonathan Caron
Kathryn Janine Dekraker

Arts

Julie Cecelia Aalders
Gregory-Clinton Archibald
Genevieve Forget
Aiden George Stead

Cognitive Science
Catherine Black

Commerce
Brandon Miller
George Zelikov

Communication and Media Studies
Allison Elizabeth Assaff
Sidney Boegman

Computer Science
Olivia Margot Perryman
Yiwei Zhang

Economics
Jessica Lee Martin
Chi Zhang

Engineering
Jacob von Chorus
Danilo Vucetic

Global and International Studies
Kirstin Pulles

Health Sciences
Taylor Barbara Anderson
Chloe Michaela Campbell

Humanities
Bryce Gratton

Industrial Design
Sophia Hiromi Shah Nakashima
Alura Sutherland

Information Technology
Ryan Robert Murdoch

International Business
Victoria Farrell

Journalism
Julianne Tierney

Mathematics
Adam Chmara
Richard Geoffrey M. St. John

Music
Anthony Tiberius Kubelka

Public Affairs and Policy Management
Shawn Zachary O'Connor
Safira Teja

Science
Jade Samara Pon
Benjamin Burton Warnes

Social Work
Michael Ferri
Tara Saadat

2021
Faculty of Arts and Social Sciences
Thalia Charlebois
Alexander Thomas Kirby
Jessica Lynch

Faculty of Engineering
Rami Shaklab

Faculty of Public Affairs
Kathryn Mumford
Amanda Catherine Thompson
Jessica Eileen Wilson

Faculty of Science
Rami Jadayel
Raymond King Yuen Lau

Sprott School of Business
Amy Belle McKay

Architectural Studies
Jessica Catherine Babe

Arts
Aidan Patrick Joseph Smyth
Caitlin Walker

Cognitive Science
Madison Alana Carty

Commerce
Matthew James Clement

Communication and Media Studies
Emma Morgan Francis

Computer Science
Krystian Wojcicki

Economics
Timothy Peter-Frank Ashmore

Engineering
Gregory Hamilton

Global and International Studies
Molly J Krystine Boley

Health Sciences
Vasily Inkovskiy

Humanities
Tara Maeve McMahon

Industrial Design
Mandy Zoe Hui

Information Technology
Isabelle Potvin

International Business
Dannick Giguere

Journalism
Samantha Gabriella Pope

Journalism and Humanities
Lauren Sarah Rollit

Mathematics
Abrar Kazi

Music
Jennie Kathleen Seaborn

Public Affairs and Policy Management
Amelie Holland Chartrand

Science
Emine Ismet Topcu Can

Social Work
Patrick Shaun Ennis

Senate Medals for Outstanding Academic Achievement Graduate

Awarded, when merited, to graduating students of outstanding academic achievement

2020

Doctoral level
Rawan Alkurd
Brittany Blaskovits
Trina Johanne Cooper-Bolam
Margaret Elaine FitzGerald
Matthew Bertram Edward Griffiths
Nawaf Nasser
Matthew Purvis
Safiyah Rochelle
Rimple Sandhu

Master's level
Kevin Daniel Amirault
Samuel Robb
Evan Turner
Jamie Lynn Marie Desautels
Vasileios Lioutas
Scott Dutrisac
Brodie William Hobson
Corrine Carolin VanWoudenberg
Meagan Lise Breault
Rachel Kaye McNally
Tanyss Anne Sharp
Emily Ann Williams

2021

Doctoral level

Sabrina Michelle Burr
Dusan Gostimirovic
Jing Jin
Ryan Scott Killick
Samuel MacIsaac
Chloe Isabelle Marie Pedneault
Noah Schwartz
Paul Smith
Seetal Sunga
Yun Wang
Stephen Weber

Master's level

Noah Leete Langlois
Jeffrey Grant Wayne Hough
Ville Tuovi Tiukuvaara
Sabina Inge Franklyn
Sunny Rabiul Karim
Donald Zachary Leone
Monisha Logan
Cassandra Taylor Starosta
Ting Hu
Jenna Lynn Ann Rolfe
Elia Palladino
Candace Roberts

Senate Medals for Outstanding Academic Achievement Undergraduate

Awarded, when merited, to graduating students of outstanding academic achievement

2020

Zainab Abdulhusein
Farah Allaa Abusharkh
Montader Ali
Trevor Sean Andersen
Julia Grace Anderson
Polina Andrievskaia
Sidney Elizabeth Anthony
Jennifer Armstrong
Abhijit Arun
Matthew Douglas William Auld
James Alec William Baak
Samphe Brule Emily Lhasa Ballamingie
Oludare Azeez Balogun
Evelyn Bartlett
Alexandra Bavington
Grace Eva Bazinet
Kayla Beaudin
Lisa Joy Bebyck
Christopher Arthur Beers
Amy Bekkers
Megan Norah Bengough
Tarek Benzouak
Autumn Rae Bernard
Samual James Bird
Mitchell Blanchard
Dawn-Marie Blok
Alexa Catherine Bordage
Emma Kate Mharie Bornheimer
Ryan Stephen Boros
Isabella Rose Ludvig Bossom

Paolo Bottega
Meaghan Mary Brackenbury
Brohan Brennan
Sador Efreim Brhane
Liam Bruce
Calla C. Brugmans
Sinclair Anna Dorothy Bruin
Holly Lynne Brulé
Patricia Lynne Bryden
Sarah Buckingham
Quinn Arthur Budan
Rebekah Bueti
Erin Marie Burke
Benjamin Bushell
Christa Buttera
Eddie Cai
Margaret Rose Cameron
Michael Robert James Cardy
Joey Carrier
Hannah Li Er Carton
Zachary Lucas Cave
Adrianna Chang
Cassidy Lita Charron
Boris Kai Ho Chee
Dawei Chen
Alexandra Vivane Cheslock
Gabrielle Sheng Pei Chia
Veronica Sheryl Chiarelli
Mariève Chouinard
Jerry Yan-Yu Chow
Adriana Miyuki Chu
Troy Hilliard Alexan Clarke
Anthony Robert Umberto Colonico
Christian Comeau
Amanda Anna Cousineau
Hannah Elizabeth Crepeault
Jack Cruikshank
Deanna Cummings
Mara Currie
Miski Dahir
Brittany Dalzell
Lindsay Meek Damini
Jordyn Danells
Robert Davidson
Amedeo de Pretto
Kayden Oliver Debney
Chloe Ann Dennis
Matthew Shane Deonarine
Christopher Robert DesRivieres
Caitlyn Mackenzie Dewar
Michelle Dich
Hannah Anne Dinovitzer
Sandra Doidge-Feder
Qi Dong
James Michael Donner
Julia Dorion
Jordan Dugan
Lauren Elizabeth Dunn
Michael Dysart
Noor Samy Abdel El Astal
Katelyn Peterkin Elliot
Connor Stephen Ellis
Cherlene Lareza Eloria
Mariam Elsayy

Kaya Erdin
Elizabeth Farrell
Genevieve Olivia Skye Finn-Vickers
Kayla Fitch
Yuri N. Fitzpatrick
Shannon Mae Foss
Emily Jaine Madelin Fraser
Emily V. Frendo-Cumbo
Mkeshi Charles Gadi
Alexander Yuan Gao
Seth Gatien
Wondewossen Gebeyehu
Delaney Quinn Gilmore
Dayna Melissa Goldfarb
Maaike Gooderham
Charlee Johanna Grace
Brendon Joseph Graveline
Analis Ambay Groh
Mariam Hakoum
Gwen Shannon Haller
Kaj Bjarki Hallgrimsson
Matthew Hamilton-Smith
Catherine Judith Beverley Hammond
Jackson Yoshi Harada-Poulter
Logan Murphy Hardman
Matthew Andreas Hauzar
Olivier Eugène Hayet
Marcus Hebert
Moonkyung Heo
Shannon Marie Hicks
Sarah Nadine Hobson
Sarah Joy Hosmar
James Houseman
Jason Tseun Hum
Carley Hutchinson
An Phuong Huynh
Evalynne Jacaban
Gavin Jackson
Rishabh Jain
Neely Amanda Jarvis
Aya Kadri
Petros Philippos Kapetanakis
Rachel Valentine Kardish
Kyle Kazareczky
Matthew Kazarian
Laura Keating
Jasmine W. Morrison Keeler
Fraser Keegan Kirby
Kasey Lane Kirkup
Gyathri V. Kitnasamy
Linnea Klockars
Layne Gregory Koftinow-Mikan
Adam John Kouri
Michael Kuang
Tanner Kennedy Kyle
Daniel George Kyrollos
Martin Ignacio Laborde
Judith Emilie Lachance
David Laferriere
Jyllenna Wilke
Alexandra Lasocka
Madeleine Lawler
Andre Nicholas Lawrence
Joel Bradley Lawrence
Audrée Anne Leclerc

James Hugh Hamilton Lee
Philippe Leroux
Gabrielle Lessard
Jiangyan Li
Jordan Taylor Li
Joseph Michael Lindon
Justin Michael Lo
Meiqing Luo
Ayelet Chen Lustgarten
Krista Diane Luzzi
Peter Kenneth MacDonald
Lindsey MacMillan
Emily MacNeil
Maeghan Eadie Macpherson
Hassan Mahmoud
Jan Piotr Marchwica
Andre Markus
Nathan Scott Marshall
Laura Ruth Martin
Rafael Enrique Martinez Sanchez
Madison Jordan Martinez
Emmanuelle Masclet
Sonia Mataj
Shyanne Matone
Scott McCalla
Sarah McDonald
Olivia J. McMurtry
Devanshi Narendra Mehta
Bence Mészáros
Natalie Margaret Mezey
Joshua Charles Miller
Rebecca Jean Mitchell
Rachel Carmen Earleen Moreau
Ana Maria Mota
Keenan Neo Murphy
Sarah Musclow
Andrew Musgrave
Luke Antony Ashley Newton
Dana Nickerson
Tran-Vu Nong
Chae-Lynn Normore
Tamara Jane O'Connor
Abigail A. O'Grady
Kikachukwu Stephanie Otiono
David Brandon Payne
Emily Peeling
Alexander Pegarkov
Jacob Rodney Crone Pelchat
Cossette Pascale Penner-Olivera
Jensyn Alexis Plunkett
Laura Polakova
Rebecca Elise Pottruff
Rebecca Lynne Price
Michael Pruss
Colleen Rosslyn Freda Putzig
Jessica Marie Rainey
Serena Remtulla-Langlois
Samantha Angelica Ricardo
Carley Lyn Richards
Mitchell Richardson
Olivia Renée Robin
Vijay Robinson
Hilary Frances Romaniuk
Véronique DuVernet Rowley

Courtney Nicole Royle
Esra'a Saleh
Dana Sandler
Aditi Sajjala Sankhe
Lorie-Ann Savard
Sebastian Saville
Michaela Scanlon
Margaret Louise Schweltnus
Margaret-Claire Seguin
Andrew James Selfridge
Naryan Shukle
Antonio Mario Sicoli
Sara Siddiqi
Justin Sigouin
Alexandra Silver-Mahr
Nathan Chun-Kit Siu
Joshua Dylan Sloan
Carl Duncan Peter Spencer
Abraham Srna
Scott Stanfel
Konrad Stanicki
Jared Struthers
Marcus Stukel
Alicia Wai Ha Suen
Henry Sum
Talia Lisa Tahtadjian
Joshua Tanner
Mark Michael Tanyous
Alannah Rebeckah Taylor
Randy Taylor
Ibrahim Terai
Madeline Campbell Thomas
Brette Thomson
Brandon Tobin
Daniel Hugh Toplis
Alex Trostanovsky
Alexandra Anna Tucci
Austin Turner
Brina Underwood
Emily Marie Van Hoeve
Jesse David Clarence Van Kesteren
Alexandra Elise Vegso
Alexander Kerry Verch
Dieter Jurgen Verhufen
Victoria Stephanie Verroen
Zoya Versey
Igor Veselinovic
José Martín Villamor
Miriam Megumi Villeneuve
Avery Ellis Vine
Esther Willa Vininsky-Oakes
Cole Elliot Walker
Alyssa Nicole Walter
Ching-Wen Wang
Stephen Howard Watson
Dana Kelsey Weaver
Jillian Weinberger
Mary-Johanna Weir Weiss
Alexandra Welten
Jessie Eleni Westell
Maxwell Wiegand
Alexandra Wilson
Katherine Ashley Wilson
Herman Wong
Hyunjin Woo

Minda Wood
Mengyao Wu
Jia Ying Xu
Hudaifa Saleh Zayed
Julia Sarahanne Zebarth
Xinrui Zhang
Dicong Zhao
Joseph Alan Zurakowski
Nikita Megan Zurowski

2021

Samuel James Abbott-Tate
Sandra Abou-Eid
Madison Ann Abraham
Taylor Abraham
Sawsan Alaa Abusharkh
Afreen Ahmad
Alex Steven Aikman
Victoria Anuoluwa Ajila
Tuba Nur Aktas
Ruby Joy Alguire
Ruqaya Almalki
Tamara Alsayed
Habeeba Aderemi Amuni
James Albert Anawati
Saleha Anwer
Nathaniel Arnill
Emily Rose Arsenault
Kylie Ann Arsenault
Samantha Elizabeth Atkins
Maxim Aubrey-Robillard
Kiara Maria Ayoub
Azim Baghadiya
Elizabeth Balsewicz
Sherry Lynne Baltzer
Shakibasadat Bani Fatemi
Abigail Rae Bartlett
Camryn Dora Beazley-Wright
MacKenzie Bedard
Matthew Owen Betts
Bimal Bhagrath
Robert Oliver Binkowski
Madeleine J. Biron
Alexander Rennie Bisailion
Shane Joseph Neave Bishop
Jenna Rachel Cassidy Blower
Maria Manuela Boeira
Jacob Mitchell Boertjes
Taylor Marie Bogle
Bianca Santa Maria Bono
Sydney Keenan Bota
Olivia Sarah Compton Botelho
Ian Braithwaite
MacKenzie Grace Brannen
Jovunjeet Singh Brar
Thomas Gilbert Ramos Bray
Kaitlan Bernice Brazeau
Kirsten Fiona Brightman
Cody Browne
Alison Gwyneth Burke-Filewod
Olivia Grace Bussey
Mia Cadieux
Kendra Mary Campbell
Mélanie Catherine Cantin
Tri Minh Cao

Yizhang Cao
Melissa Hazel Carvalho
Keyan Cassis
Courtney Ainsley Cathcart
Stephanie Dorothea Cathcart
Samuel Catherasoo
Elizabeth Anne Chamberlain
Fadel Chamseddine
Gillian Sara Patricia Chapman
Paul James Douglas Chellew
Jacqueline Onlam Chiu
Rhea Sarita Chopra
Tyler Leigh Christoffer
Cristian Ciobanu
Erika Cizek
Dalton Shane Clark
Keyanna Coghlan
Justin Michael Collacutt
Emily Katherine Conway
Emily Coppella
Francesco Costanzo
Isabelle Anne Cote
Sally Rebecca Crandlemire
Sarita Fiorella Cuadros Sanchez
Luca Curcio
William Da Silva
Colin Dalby
Alexa Isabella Dallaire
Ayebabomo Wilfred Dambo
Sreyasi Datta
Danka Davidovic
Philippe Bruno Decoste
Wenyue Deng
Jovan Dhatt
Sandeep Singh Dhatt
Caitlyn Renee Doiron
Joseph Dooley
Miranda Marie Doris
Dustin Edmund James Doucette
Aboubacar Doumbia
Mackenzie Dowson
Adam Dublin
Eleanor Beatrice Duffley
Richard Matthew Edwards-Jones
Nisreen Elias
Gabriel Stephen Ellepola
Nicholas Robert Ellul
Selin Erdin
Aylin Erman
Amy Elizabeth Evans
Laila Anastasia Fahel
Giovanni Jonathan Falcone
Peng Sheng Fan
Salar Farokhi Boroujeni
Oliver Thomas Farwell
Katherine Ferguson
Meghan Gabrielle Fernandez
Dana Susan Foley
Evelyn Marie-Paule Fortin
Julia Lynn France
Ryan Frohar
Sean Fu
Zachary Flynn Fuller

Adam Paul Gale
Jonathan Richard Joseph Gale
Yan Peng Gao
Samantha Rachel Gaucher
Kira Francine Geisterfer-Black
Jiahe Geng
Yasmine Elsayed Ghania
Benjamin Ian Lyon Gilks
Sonia Katrina Gill
Ian Boyd Gilmour
Matthew Richard Daniel Gionet
Anna Christina Goodman
Alannah Margaret Gosnell
Aidan Teague Gowsell
Laura Jean Grant
Alana Lauren Gray
Carmen Gudino
Jingjie Guo
An Tuan Ha
Sandrine Hachez
Renée Kathleen Haddock
Jessica Lynn Haggard
Michel Nicolas Hajjar
Catherine Eleanor Hamilton
Lauren Jenna Lee Hamilton
Peter Hamilton
Nadim Hammoud
Yoojeong Han
Samantha Harris
Donya Hassanzadeh
Bridget Anita Hayes
Kieran Lachlan Wing-Sze Heffernan
Paige Lillian Heffler
Katherine Ann Higgison
Chelsea Annie Hobbs
Vegas Hodgins
Jasmine Hong
Emma Jean Hooker
Benjamin Joseph Houle
Trevor Hoyte
Kelvin Hua
Ethan Hunt
Blue Hunter-Moffatt
Ashley Alyssa Irwin
Tarek Issa
Maegan Therese Jackson
Shaylyn Elizabeth James
Rashmi Venusara Jasinghe
Maneet Kaur Jhaji
Nicholas Jodouin-Lund
Graham Andrew Johnson
Mya Leanne Johnson
Iman Amal Joseph
Korina Antoinette Joseph
Brittany Judith Junipero
Shanine Kamgang
Shaked Karabelnicoff
Amanda Jennifer Keech
Laura Kathleen Kennedy
Nathan Alexander Key
Neha Khanna
Simon Wilson Kinsey
Andrey Kirillov
Matthew James Knight

Marta Teresa Kolbuszewska
Nikolas George Kouloufakos
Simon Mihal Krol
Daniil Kulik
Tanya Kunwar
Abhishek Kurusetty
Jenaïssa Anne-Michèle Lajoie
Jyllenna Rae Landry
Erin Teresa Rose Lange
Adam Lariviere
Aaryn Victoria Lavallee
Mathieu Frederyk Leblanc
Kaylee Lynne Leduc
Sangmi Lee
Hannah Leistle
Braedon Scott Leonard
Jérémie Harmond LePage-Bourbonnais
Kennedy Anne Lessard
Brittney Kristine Marie Lewis Nash
Yizhen Li
Mattias Lightstone
Jacob Richmond Lindblad
Catherine Margaret Littlefield
David Liu
Priscilla Yee-Lam Lo
William James Lothead
Guillaume Lockman-Dufour
Bethany Leigh Loshusan
Calista Rachel Loten
Justin Whalen Low
Miranda Winnifred Lowe
William Lu
Zoe Frances Wayne Lyons
Tianrui Ma
William Ruifan Ma
Maya Nemat Maayergi
Elijah Dominic MacDonald
Keigan Malcolm Macdonell
Robert MacGregor
Shane MacIsaac
Melissa M. MacLean
Kianna Ramzieh Mahmoud
Anthony Michael Maio
Elizabeth Major
Elena Martynova
Coleka Latisha Masama
Nathan James Matthews
Hikmet Mawi
Grace Erika McCloskey
Colin McCulloch
Eimhin Patrick McDonald
Elyse Catherine McGarva
Sarina Renee McGillivray
Serenity Kafia McLarty
Heather Christina McLaughlin
Cameron Rae McMullen
Owen Benjamin McVeigh
Benjamin Melone
Katarina Milanovic
Persephone Ann Miller
Rowan Alexander Miller
Ali Jawad Mohammad
Yousef Mohammed
Victoria Andrea Molotchko

Chelsea Morgan Montgomery
Emily Nicole Moynes
Jonathan Mudde
Janine Maria Louise Mudge
Fahim Muhammady
Mohammad Naddaf
Ajitha Nair
Kayla Paula Nardelli
Hadi Nasrallah
Kiara Marie-Sylvie Nazon
Arielle Tiffany Neil
Ha Nhat Lam Nguyen
Justin Nicolaev
Juliana Christina Nicoletta
Kayla Lexy Noseworthy
Jason Kevin Nyentap
Jenny Laura Oatway
Ashley Michelle Ogilvie
Meghan Catherine Michiko Oliver
Pamela Ashley Ong
Temitayo Oluwafemi Oluwapelumi Oyelowo
Anna Paquin
Nicholas J. Paquin
Sheldon Abraham Parathundyil
Mackenzie Alexander Parent
Katherine Barbara Parker
Kenda Bailey Parsons
Anya Danilovna Pejensky
Allison Christine Penner
Deirdre Rose Pennock
Aynsley Catherine Persad
Ethan Paul Phillion
Allison Kimberly Plourde
Olivia Grace Polk
Alfredo Antonio Porco
Julia Elizabeth Prather
Rebecca Kate Margaret Prowse
Gabriella Margaret Rabaa
Adam Ranallo
Kelly Ann Ratajczak
Jackson Garrett Reid
Jessica Lauren Reid
Rezda Arifah Rezal
Noémie Richard
Daniel Thomas Richards
Vivian Janice Rigg
Belle Scout Riley Thompson
Ariane Roberge
Kieran James Robinson
Destiny Amber Roux
Hilary Laurel Rowe
Owen Spencer Rowland Fawcett
Veronique DuVernet Rowley
Emily Louise Russell
Amy Evangeline Russett
Rebecca Rynard
Nicholas Salamon
Courtney Anne Susan Schapelhouman
Brandon Derrick Schelhaas
Jessica Beverly Katharina Scheufen
Margaret Louise Schwellnus
Kaeden Oliver Miles Seburn
Frag Shalouf
Derek Shao

Samantha Ruth Shaw
Lulu Ruilu Sheng
Garrett Sherwood
Denis Shleifman
James Shrubbs
Sumayya Sultana Siddiqui
Rajyogeshwar Singh
Michael John Lawrence Sloan
Jamie Tyler Snow
Brad William Sobczak
Rekha Sobhee
Victor Oghenefejiro Sodje
Yingjie Song
Matthew James St Cyr
Caroline Elizabeth Stacey
Jake Staples
Nelly Juliette Cecile Staudte-Blondeaux
Kari Ann Stevenson
Connor Raymond Stewart
Gillian Myra Cameron Stewart
Madeleine Dorothy Stewart
Renee St-Jean
Adam Stone
Kevin Richard Sullivan
Demetria Samantha Swann
Sofia Tapia Buchelli
Olivia Lucy Tarr
Meriam Tayar
Tanisse Chanel Maureen Teale
Jenna Margaret Christine Teske
Helen Thai
Claire Ada Tizzard
Elisa Magdalena Torlone
Gabrielle Torrealba
Rim Mohamad Toutounji
Anh Khoa Tran
Christophe Tran
Brianna Kathleen Tremblay
Chelsey Kayla Trstenjak
Erin Alana Turnbull
Jill Turner
Molly Turner
Priyank Hemang Upadhyaya
Katrina Valles
Erica Cecilia Van Loon
William Francis Scott Van Veen
Matthew Vatamaniuck
Victoria Evelyn Venne
Francisco Villacis
Alyssandra Holly Villeneuve
Julie Anna Davis Vincent

Jennifer Lyn Vorobej
Qaila Walji
David Wang
Kailai Wang
Shulu Wang
William Ruiheng Wang
Xinyi Wang
Rachel Warkentin
Erica Anne Warriner
Sarah Katharine Watts-Burpee
Bin Wei
Victoria Welland
Patrick Robert Weller
Tayler Mackenzie Wells
Laura Jean Wheeler
Nicholas Simon Wicklund
Zoë Williams
Adam Kenneth James Williamson
Owen Robert Wilson
Shelby Evelyn Wood
William Hunter Wright
Samuel Blake Wrightly
Hijaab Yahya
James Ying
Yolanda Wing Tung Yip
Zijian Zhen
Nicholas K. A. Žuger

Recognition of High Academic Achievement

The designation of *with Distinction* and *with High Distinction* recognizes outstanding academic achievement by undergraduate students.

In order to have the designation awarded, the following criteria must be met:

- Students must have completed at least 10.0 credits at Carleton University toward the degree;
- For the designation *High Distinction*, an overall cumulative grade point average equal to or greater than 10.40 (on a 12-point scale);
- For the designation *Distinction*, an overall cumulative grade point average equal to or greater than 9.80 (on a 12-point scale).

Ceremony 13

Thursday, June 16, 9:00 a.m.

Convocation Speaker

Larry W. Kostiuk

Dean, Faculty of Engineering and Design



Larry W. Kostiuk began a five-year term as Dean of the Faculty of Engineering and Design on July 1, 2019.

Prior to joining Carleton University, he served in several roles at the University of Alberta, including Chair of the Department of Mechanical Engineering (2002-2012), Associate Vice-President – Research (2015-2018), and Director of Future Energy Systems (2016-2018) – a Canada First Research Excellence Fund program.

Kostiuk's research specializes in chemical reacting flows, combustion (flaring, premixed flame dynamics, and pool fires), pollutant formation and control, thermodynamics, micro- and nano-fluidics (continuum and non-equilibrium molecular dynamic modeling), and energy conversion systems.

He has been a Visiting Professor at Centre National de la Recherche Scientifique in France, (2014-2015, 1997, 1996, 1995), Carleton University (2014), the Indian Institute of Technology (2013), the University of Cambridge, (2001-2002), and was a Special Advisor to the Assistant Deputy Minister of the Science and Innovation Division of the Department of Economic Development and Trade.

His research record has resulted in him being named a Fellow of the Canadian Academy of Engineering (2012) and Fellow of the Canadian Society for Mechanical Engineering (2011). His research group also won the Summit Award for Environment Excellence from the Association of Professional Engineers, Geologists, Geophysicists of Alberta (2007).

Order of Proceedings

Ceremony 13

Thursday, June 16, 9:00 a.m.

Chancellor Yaprak Baltacioğlu, LL.B., M.A., presiding

The audience is requested to stand when the Academic Procession arrives and to remain standing for the Elder's greeting and for O Canada. At the conclusion of the ceremony, the audience will wait until the Academic Procession has left before exiting the Fieldhouse.

Processional Music

Opening Ceremony Video

Elder Irene Barbeau
Cree Nation

O Canada (The audience is invited to sing. Please see Page 2)

Introduction by the Master of Ceremonies

Rafik Goubran, *Ph.D.*
Vice-President (Research and International)

Convocation Address

Larry Kostiuk, Dean, Faculty of Engineering and Design

Conferring of Degrees and Awarding of Medals

Warrant
Donald L. Russell, *Ph.D.*
Marshal of Convocation

Closing Address by the President and Vice-Chancellor

Benoit-Antoine Bacon, *Ph.D.*

Recessional Music

Master of Applied Business Analytics

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Technology Innovation Management

Vismita Satyanarayana Badami
Prashanthi Beeram
Ashish Clement
Renee Nicole Emby
Rahul Gajjar
Hosna Hamdieh
Rayshma Hilal
Sagar Pradipbhai Marvaniya
Sandeep Mohanty
Olusegun Mosadioluwa Odufuwa
Dhruvkumar Shaileshbhai Panchal

Nikhil Sagar Panthangi
Meghana Devi Parasa
Nishit Vipulbhai Patel
Arash Pourmohammadian
Mozhan Pournemat
Madiha Rehman
Gurpreet Singh Sachdeva
Amir Sharifian
Amandeep Singh
Gueorgui George Tanev
Shefali Titoria
Yuye Xu

Master of Applied Science

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Sustainable Energy

Joseph Azzuolo Coady
Evaluating the Impacts of Supply and Demand-Side Interventions in Northern Remote and Rural Community Energy Systems

Keelia Ann LaFreniere
Assessing Tradeoffs Between Solar Thermal and Wind Energy Integration in an Isolated Community Electrical-Thermal Grid

Kayla Jean Lewry
A Numerical and Experimental Analysis of a Transcritical, CO₂ Heat Pump Water Heater

Zacharie Marshall
Performance Evaluation of Industrial Waste Heat Driven Power Cycles Utilizing Low Global Warming Potential Working Fluids

Danisz Stalinski
Development of a Simplified Method for Optimally Sizing Hot Water Storage Tanks Subject to Short-Term Intermittent Charge/Discharge Cycles

Calene Hazel Malinda Treichel

Technoeconomic Analysis of Air Based Solar Assisted Heat Pump Water Heaters for Canadian and American Cities

Technology Innovation Management

Sandra Jo-Ann Brand
Libra Association as a Case Study of Ecosystem Emergence

Tina Khamenehmohammadi
Cross Case Analysis in Shipping and Logistic Industry Supply Chains: Blockchain Qualities in Stakeholder Value Proposition

Jasmine Ariana Shaw
The Design of Local Ecosystems within a Global Technology Entrepreneurship Challenge

Alla Vitalevna Zakurdaeva
Using Machine Learning to Detect Architectural Integrity Violations Associated with Bugs

Master of Engineering

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Sustainable Energy

Mutayyab Ahmed
Curtis Allen Black
Lilya Boukornia
Danielle Victoria Butson
Mithun Chockalingam
Mukhtar Muhammed Gazali
Khamis Haggag
Grace Hamilton-Burge
Ron Jain Thomas
Heet Ashishkumar Mehta
Oluwafunmito Oshunmakinde
Sharan Sadhu
Moonisah Shaik
Nseobong Imeh Udoh
Austin Bradley Zacharko

Technology Innovation Management

Sriram Narayan
Mohd Azeem
Rehan Danish
Nael Sulaiman Abu-alim
Oluwasola Bolade Adare
Temiloluwa Esther Adejwon
Babatunde Olanrewaju Afolabi
Akshat Aggarwal
Maima Ahmed
Ayman Salah Mostafa Ali
Syed Thameem Ghulam Hussain Althaf
Maham Aman
Ahmad Abdul Hamid Mahmoud Amarneh
Parvin Aminnejad
Nawshin Anis
Mahsa Bahramian
Kafayat Oluwadamilola Balogun
Ermela Bashuri
Srishti Batra
Rishi Bhalla
Sri Sai Padma Lalitha Reddy Budigi
Aditi Arun Chaskar
Bhavin Dinesh Chauhan
Shruthi Reddy Chireddy

Nitin Kumar Chitralla
Anika Mehpara Choudhury
Amarachi Maryann Chukwu
Oluwadabira Manji Daada
Deepthi Devenapally
Lohit Kumar Donavalli
Anthony Oluwatobi Edohen
Mitchelle Urenna Ekekwe
Swetha Eshvar
Arash Farahani
Vijaya sri Bhargavi Gottapu
Nicholas Jean-Francois Goulet
Vincent J. Guihan
Abdullah Ghulam Habib
Ahmed Haji
Archana Hariharan
Lathapriya Hariharan
Charles Ifeanyi Ibekwe
Anika Iqbal
Mohamed Ayman Jaber
Rashmi Jain
Dennie James
Midhun Janarthanan
John Kayode-Abusi
Riyan Mohammed Khyyat
Indu Kilari Ravi
George Kurian Kochukaleekal
Surya Koritala
Sneha Kotai
Tarun Kumar
Lili Lajevardi
Ragini Madaan
Kavya Manakan
Zaafar Mehmood
Shehzore Ali Memon
Marcelo Mendes Barbosa
Mohadmahir Mohmadsaid Momin
Kavi Preetha Muruganandham
John Andrew O'Brian Nelson
Sarvagya Nigam
Samaneh Nikpoor
Tolga Nizam

Nicholas Nonso Nwaokocha
Busayo Kehinde Odesanya
Henry Obumneme Okonkwo
Ajibola Samuel Oladele
Yinka Adeola Olanrewaju-Olawepo
Tolulope A. Olutade
Osazuwa Edwin Omoigui
Chiamaka Rita Onwunma
Ensieh Parsaeian
Christopher Phelefu
Hams Abdulmajeed Ramadan
Vishal Ramkrishna
Sajala Reddy
Gangadhar Atchut Kumar Sagubandi
Karthikeyan Sankara Vadivelu
Pujan Devendra Sanura
Samsudeen Oyelola Sanusi

Praveenraj Saravanan
Keerthi Reddy Sarvigari
Kshiti Satti
Maalatesh Kiran Shindhe
Jyot Singh
Jaskaran Singh
Abiola Smith
Raghav Sood
Akshaykumar Vijaykumar Surti
Kesavadas Suthaman
Abarna Thilagar
Udeme Anselem Udoh
Uthraa Venkatesan
Jamie Wiecha
Rayner Guan-Jad Wong
Mohammad Zaripour

Master of Arts

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Sustainable Energy

Yusuf Hassan Ali
Co-operative Education
Thomas Llywelyn Arnason McNeil
Nicholas Austin Dang
Samantha Kearney Jarvis
Co-operative Education
Lauren Kathryn Johnson
Leia Renee Jones
Co-operative Education
Abou Baker Kaddour
Lavy Khoushinsky
Susan Elke Lehmann
Jessica Rae Leis
Felix Clifton Mercure

Nathalin Moy
An Engineer's Guide to Public Engagement in
Renewable Energy Projects
Mohamed Nassar
Co-operative Education
Amjad Navid
Jamie Maree Petra Ness
Keely Erin O'Brien
Silke Christiane Popescu
Leading Canadas Sustainable Energy
Transition: Does Gender Matter?
Patrick Olivier Russell
Co-operative Education
Umair Tajamal
Balie Walker
Ruth Wong

Master of Entrepreneurship

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Technology Innovation Management

Ehsan Alirezaei
Haithm Ali Mohammed Alwaeli

Siamak Aminnejad
Abdulla Mohammad Abdulla Aweisi
Muhammad Rizwan Baseer
Omotoyosi Ayoola Bolujoko

Wei Chen
Ikemefuna Ekweozor
Regina Ferrar
Mahsa Ghorbanpour Babakandy
Mkpouto Ibekwe
Motahar Jafarian
Sara Jelveh
Ruslan Peter John Matthews
Seyed Reza Mesbah
Ha Nhu My Nguyen
Thanh Nhan Nguyen
Tuan Van Nguyen
Akinkunmi Olusegun Ogunsola
Anthony Olayemi Oluremi

Dorcas Voke Orhomre
Rushikumar Sanatkumar Pandya
Kondavalasa Sai Abhishek Patnaik
Boluwatito Oluwatobi Pikuda
Premakumaran Pranaven
Md Faisal Rashid Sun
Jie Ren
Vamsi Krishna Sanem
Seyedalireza Shahidi
Edwardette Tagoe
Ozge Kadriye Tuzumet Yucel
Chima Charles Umeh
Oraibi Caleb Wakama
Rahul Yadav

Bachelor of Engineering

(Presented by Professor Ronald Miller
Chair, Department of Mechanical and Aerospace Engineering)

Engineering Physics

Chandler Gordon Aitken
Co-operative Education

Brendan Armstrong
Tyler Armstrong

Kliti Bala
With Distinction
Co-operative Education

Daniel Robert Ellingwood
With High Distinction
Co-operative Education

Scott Michael Fraser
William Fraser
With Distinction
Co-operative Education

Adam Steven Gauthier
With High Distinction
Co-operative Education

Timothy Alexander Hapitas
With High Distinction
Co-operative Education

Shaun Patrick Hearn
Colin Jakubec

Shannon Margaret Jarvis
With Distinction
Minor in Mathematics
Co-operative Education

David Kemdirim
Co-operative Education

Sean Kirkby
With High Distinction
Minor in Computer Science
Co-operative Education

Joseph Michael Lindon
With High Distinction
Co-operative Education

Shane MacIsaac
With High Distinction
Co-operative Education

Khaled Madhoun
With High Distinction

Stefan Goshev Marinov
With High Distinction
Co-operative Education

Philippe Masson
Co-operative Education

Kian Molani

Lindsay Munro-Mirehouse
Co-operative Education

Keenan Neo Murphy
With High Distinction
Co-operative Education

Andrew Musgrave
With High Distinction
Minor in Mathematics

Rami Shaklab
With High Distinction
Co-operative Education

Denis Shleifman
With High Distinction
Co-operative Education

Britney Grace Simpson
Minor in Business for Engineers

Mohamed Swelam
With High Distinction
Co-operative Education

Cameron Toswell

Endriase Hailegebrelle Yetbark

Sustainable and Renewable Energy

Ahmed Hossam Abdel Mottleb

Basil Emad Abu Jazar

Abdulwahab Mohammed Al-Haimi

Maiss M. M. Al-Obaidi
With High Distinction
Co-operative Education

Alanoud S. O. F. A. SH. Alrasheedi

Maryam Kh Awadh
Minor in Statistics

Adam Graham Baggs

Louis-Philippe Joseph Brosseau

Taashira Wesley Chikosi

Dylan Davis

Mahmoud Ayman El-Boheisy

Nathaniel Evans

Fernande Marie-Jo Ewondo

Steven Paul Fabbro
Co-operative Education

Joshua Franklin
With Distinction
Co-operative Education

Adam Frey
With High Distinction
Minor in Computer Science
Co-operative Education

Sarah Meghan Garner
With High Distinction
Co-operative Education

Benjamin Gastis

Kaan Turker Gun

Umar Muhammad Hafeez
With Distinction

Mouhanad Haggag

Eric Bing-Rong Ho
With High Distinction
Minor in Computer Science
Co-operative Education

Ayomide Ayomikun Ige
Co-operative Education

Mahmoud Ismail

Timothy Mclean Jordan
Co-operative Education

Omar Rami Kawar

Zeinab Khazaal

Derrick Kolke
Co-operative Education

Eliette Emma Lacaze Masmonteil
Minor in Chemistry

Benjamin Lefebvre
With High Distinction
Co-operative Education

Juliet Lopuz

Liam Tate Mann

Tanyon Matheson-Fitchett

David McInerney

Adam Miskiewicz

Sean Richard Mitchinson

Muath Salah Mohammad

Kevin John Schjerning Moore
With Distinction

James Mutton
Co-operative Education

Lyse Mpore Muyenzi
Minor in Industrial Economics

Godwin Gichuhi Mwaniki

Naib Nawud

Michael Elijah Nicolas

Simon Noel

Esraa Reda

Justin Rule

Connor Alexander Ruprecht

Tait Demers Seguin
With Distinction

Andrew Tranfo
With High Distinction
Co-operative Education

Nelson Tremblay-Twinem

Steve Biaya Tshimanga

Heidi Sarah Wippel

Angus Cailean Wood

Matthew David Woods

William Hunter Wright
With High Distinction
Co-operative Education

Shun Yao Yang

Tyler Yorke

Ceremony 14

Thursday, June 16, 11:45 a.m.

Convocation Speaker

Larry W. Kostiuk

Dean, Faculty of Engineering and Design



Larry W. Kostiuk began a five-year term as Dean of the Faculty of Engineering and Design on July 1, 2019.

Prior to joining Carleton University, he served in several roles at the University of Alberta, including Chair of the Department of Mechanical Engineering (2002-2012), Associate Vice-President – Research (2015-2018), and Director of Future Energy Systems (2016-2018) – a Canada First Research Excellence Fund program.

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Order of Proceedings

Ceremony 14

Thursday, June 16, 11:45 a.m.

Chancellor Yaprak Baltacioğlu, LL.B., M.A., presiding

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Elder Irene Barbeau
Cree Nation

O Canada (The audience is invited to sing. Please see Page 2)

Introduction by the Master of Ceremonies

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Vice-President (Research and International)

Convocation Address

Larry Kostiuik, Dean, Faculty of Engineering and Design

Conferring of Degrees and Awarding of Medals

Warrant
Donald L. Russell, *Ph.D.*
Marshal of Convocation

Closing Address by the President and Vice-Chancellor

Benoit-Antoine Bacon, *Ph.D.*

Recessional Music

Doctor of Philosophy

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Aerospace Engineering

Gary Scott Bishop

A Holistic Approach to Structural Health
Monitoring of Composite Aerospace
Structures using Lamb Waves: From
Manufacturing to Service
Supervisor: J. Laliberte

Bingjie Xiao

Suspension Plasma Spray Thermal
Barrier Coating Systems - Modelling and
Performance Characterization Under
Isothermal and Cyclic Oxidation Conditions
Supervisors: X. Huang and R. Kearsey

Setareh Yazdkhasti

Vision based Real-Time Navigation with
Unknown and Uncooperative Space Target
Supervisors: J. Sasiadek and S. Ulrich

Mechanical Engineering

Basim Al Tluja

Experimental Wind Tunnel Testing and
Numerical Optimization Studies for Airfoil
Trailing Edge Noise Reduction
Supervisor: J. Torres Da Rocha

Ibrahim Mohamed Zedan Ali

Health monitoring system for the 10 MW
Supercritical Carbon Dioxide S-CO₂ Gas
Turbine Power Plant
Supervisor: H. Saari

Osama Moftah Ali Al-Mai

Design, Fabrication and Calibration of
Compliant, Multi-Axis, Fiber-Optic Force/
Torque Sensors for Biomechanical
Measurements
Supervisors: M. Ahmadi and J. Albert

Ghazi Alsorjji

CALPHAD Based Cellular Model of Dendrite
Growth in Welds
Supervisors: A. Artemev and J. Goldak

Christopher Baldwin

The Integration of Heat Pumps and Thermal
Storage for Residential Demand Side
Management
Supervisor: C. Cruickshank

Jayson Bursill

An Approach to Data-Driven Sensing and
Predictive Supervisory Control for Commercial
Buildings with In-Situ Evaluation
*Supervisors: W. O'Brien and I. Beausoleil-
Morrison*

Bradley Mark Conrad

Quantification of Black Carbon Emissions
from Gas Flaring and Standardization of the
Sky-LOSA Measurement Technique
Supervisor: M. Johnson

Fawzi T. M. Elhigazi

Phase Field Modelling of Bainitic
Transformation
Supervisor: A. Artemev

Samia Khalifa Essa

Experimental and Modeling Studies of
Thermal Barrier Coating Failure Under
Isothermal Oxidation and Solid Particle
Erosion
Supervisors: R. Liu and K. Chen

Osama Basil Hmood

Combustion Characteristics of n-heptane
Through Temperature Variation
Measurements Using Ignition Quality Tester
Supervisor: E. Matida

Hooman Jazebizadeh

Transient Mathematical Modelling of Loop
Heat Pipes and Experimental Validation
Supervisor: T. Kaya

Master of Applied Science

(Presented by Professor Patrice Smith
Dean, Faculty of Graduate and Postdoctoral Affairs)

Aerospace Engineering

Maryam Al Ibbad

The Effects of Urban Settings on Air₂ow
Characteristics For Urban Air Mobility
Applications

Gabriel Giannini de Cunto

Sensor Fusion INS/GNSS based on Fuzzy
Logic Adaptive Error-State Kalman Filter and
Unscented Kalman Filter

Malcolm Dinovitzer

Development and Characterization of Additive Manufacturing of Superalloy Hastelloy X Using a Cost Effective TIG Technique

Abdurrazag Elaskri

Adoption of Additive Manufacturing Processes Toward 3D Printed Electronics

Raha Hojjati

Adaptive Control and Control Allocation for Spacecraft Formation Flying under Perturbations, Uncertainties, and Faults

Parvin Mehr

Experimental Modelling of Black Carbon Emissions from Gas Flares in the Oil and Gas Sector

Brendan Xin Zhi Ooi

Development of a Computer Vision Framework for Improved Remotely Piloted Aircraft Operations

William Paul Parsons

Dynamic Aeroelastic Performance Optimization of Adaptive Aerospace Structures Employing Structural Geometric Nonlinearities

Chanon Charl Pretorius

Aerodynamic and Structural Design of Flow Conditioning, Flow Seeding and Testing Sections of a High-Speed Wind Tunnel

Lourd Arun Raj

An Intelligent PHM System for Bearing Fault Phase Diagnosis and Multi-Phase RUL Prediction using Oil Debris Monitors

Yehia Ashraf Yehia Salama

Experimental and Numerical Investigation of Bio-Inspired Airfoil Trailing-Edge Designs for Noise Reduction

Salman Shafi

Terrain Draping and Following Using Low-Cost Remotely Piloted Aircraft Systems for Geophysical Survey Applications

Terrin Adam Stachiw

Synthesis and Optimization of Mechanical Networks with Inerters in Landing Gear for Improved Landing Performance and Vibration Control at Touchdown Considering Airframe Flexibility

Kevin Andrew Stadnyk

Validating the Deployment of a Novel Tether Design for Net-Based Orbital Debris Removal Missions

Eric Paul Trudel

Numerical and Experimental Optimization for Specific Fatigue Life Maximization of Additively Manufactured Ti-6Al-4V Aerospace Components

Zheng Wang

Sensor Fusion in Autonomous Navigation Using Fast SLAM 3.0 – An Improved SLAM Method

Mechanical Engineering**Ayman Al-Sukhon**

Multiscale Design Optimization of Hopper Cars Employing Functionally Graded Honeycomb Sandwich Composites

Fadi Araji

Effects of Porosity, Wall Thickness and Length on the Filtration Efficiency of Gasoline Particulate Filters

Adria Barcelo Singh

Oxidation Resistance of Additively Manufactured Inconel 718 for Gas Turbine Applications

Connor George Childs Brackley

Communicating HVAC Operation Through a Thermostat Interface: An In-Situ Implementation to Improve Perceived Control and Thermal Comfort in Offices

Christopher Lee Campbell

Durability Characterization of a High Performance Building Envelope with Vacuum Insulation Panels and Energy Recovery Ventilation

Yinda Cheng

Experimental and Numerical Investigation of Residual Stresses in Shot Peened Flange Pin of Landing Gears

Kathryn Nicole Culliton

Investigations of Sliding-Induced Solute Transport in Articular Cartilage

Scott Dutrisac

A Study of the Impact Response of Discrete Regions of the Human Cadaver Brain

Victor Emmanuel Liete Gasparetto

Dynamic Aeroelastic Response Attenuation of Aerospace Structures Employing Passive Tuned Mass Dampers

Arvin Hashemi Mehr

Aerodynamic and Aeroacoustic Analyses of Vertical-Axis Wind Turbines

Jeffrey Grant Wayne Hough

Cascaded Lyapunov Vector Fields for Spacecraft Relative Trajectory Tracking in Rotating Reference Frames Under Acceleration Constraints

Trevor Irwin

Analysis of Variables which Affect the Mechanical and Fracture Properties of Porcine Skin

Hasti Khiabani

sEMG-Based Lower Limb Intention Detection using Artificial Intelligence and its Impact on Assistive Human-Robot Interaction

Anton Jacob Lebar

A Study of Particle Surface Effects on the Spall Strength of Particle-Reinforced Polymer Matrix Composites

Siqi Li

Microstructure-Based Computational Fatigue Life Prediction of Structural Materials

Jianyu Liu

A Pulsating Heat Pipe Based Thermal Management System for Lithium-ion Batteries

Stephanie Rebecca Lowell

Sensitivity Analysis and Experimental Validation of Plunger-type Wavemakers Modelled with a Steady Flow

Daniel Mason

Raman Spectroscopy-based Analysis of Cartilage Composition with Applications in Finite Element Modeling

Ryan Andrew McKenzie

Motion Compensation and Robotic Control of Maritime Cranes

Jordan Michael McNally

Techno-Economic Analysis of a Solar Adsorption Cooling System for Residential Applications in Canada

Zachary Robert Milani

Remote Detection of Sodium and Potassium Atomic Emission Signatures as an Indicator of Liquid Carry-Over into Flare Systems

Grael Miller

Pilot Study for Cutting Force Model of Robotic Deburring

Andrew W. Oddy

A study on the Ballistic and Abrasive Response of Polyurea Coatings on Ballistic Fabrics

Nicholas Ogrodnik

Pressurized Metered-Dose (pMDI) Aerosol Spray Deposition in Large-and Medium-Volume Spacers

Sidharth Rajan

Analysis of Microstructure Evolution and Mechanical Properties of Linear Friction Welded Titanium Alloys

Alexander Richard Schock

Development of a Planar Shipboard Skid-Equipped Rotary-Wing Aircraft Manoeuvring and Securing Simulation

Shubhank Sondhiya

The Robotic Molecular Biologist -Automated Processing of Astrobiological Samples for Planetary Missions

Francesco William Anthony Sorensen

Development of Control Strategies and Testing Procedures for Suspension Seats Used in High Speed Craft

Ayesh N. Sudasinghe

Multi-Objective Shape Optimization of a Boundary Layer Ingesting Engine Intake

Francesca Tsimiklis

Design and Validation of a Force-Sensing Piano Key to Assess Pianist Biomechanics

Xueyao Wu

Microstructure and Performance Studies of a Novel Cobalt High Entropy Alloy

Master of Engineering

(Presented by Professor Patrice Smith
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Bachelor of Engineering

(Presented by Professor Robert Langlois
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Congratulations on obtaining your degree from Carleton University, persevering through any and all challenges faced. Welcome to the Carleton University Alumni Association (CUAA).

With your remarkable achievement comes a membership in a thriving club – a dynamic organization of more than 177,000 people living and working around the world who all share a proud connection with this university. This network can help you realize your dreams, open doors and connect you to your alma mater.

This is a day for celebration, but it also represents an opportunity for reflection. As you savour your accomplishment, take a moment to look back on your years at Carleton. Remember the ideas that challenged you, the professors who inspired you, and the lifelong friendships you have made. You will treasure these wonderful memories for the rest of your life.

On behalf of your Alumni Association, congratulations on reaching this milestone. Welcome to the CUAA – we're here to help you as you embark on a happy and successful future.

Mat Main, *B.Eng*
President, Carleton University Alumni Association



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