

*Five hundred
and seventy-eighth*
Convocation
for conferring degrees

Presiding

Chancellor

Suzanne B. Labarge

B.A., M.B.A., D.Litt. (Hon.)

President and Vice-Chancellor

Patrick Deane

B.A. (Hons.), M.A., Ph.D.

McMaster University recognizes and acknowledges that we meet today on the traditional territories of the Mississauga and Haudenosaunee nations and within the lands protected by the *Dish With One Spoon* wampum agreement.

THE RITUALS OF CONVOCATION

The procession of the graduands in plain black gowns and of faculty and officers of the University in colourful and varied regalia; the blue-robed Bedel with his ornate silver Mace; the conferring of degrees by the Chancellor; these are among the rituals of Convocation that stand in a tradition that has a history of more than 700 years.

The University's Mace is carried to and from the Convocation platform by the University Bedel and during the ceremony is splendidly displayed on the Mace Table, resting on a velvet cushion. The cushion is maroon with a piping of grey, the McMaster colours. The Mace symbolizes the authority of the University Senate to confer degrees, this authority being exercised by the Chancellor.

Bedels were functionaries and maces were weapons hundreds of years before universities emerged in the 12th and 13th centuries. So it is that McMaster's Bedel carries the University Mace directly in front of the Chancellor, symbolically to protect her.

The Chancellor sits on a massive oak ceremonial chair that bears a carved representation of an early version of the University Seal. She requests that members of the graduating classes rise from their seats and then admits them to their respective degrees. The graduating classes are then invited to join the Chancellor on stage. Once a graduate's name is called, they are hooded facing the audience, and then are congratulated and welcomed to the community of scholars by the Chancellor and President.

The academic hood is symbolic of admission to a university degree and carries colours specific to a particular degree. It is derived from clothing worn in medieval times, when a hood was similar to that of a modern parka and served the same purpose of protection in inclement weather. The hood that the Registrar or pro-Registrar deftly puts over a graduand's head is a link to the dress of students of at least seven centuries ago.

The backdrop to the Convocation platform displays McMaster's Coat of Arms. The symbol of the stag and tree, constituting the crest of these Arms, was the personal emblem of Senator William McMaster, whose munificent benefaction made possible the founding of the University in 1887. Handcrafted by Dorothy Gregson and Margaret Wallace, this banner celebrated 30 years of service at McMaster Convocation ceremonies in 2014.

The President of the University attends Convocation but it is the Chancellor, the titular head of the University, who presides over this ancient ceremonial. Her seniority is indicated by her robe being more elegant than the President's. The President relieves the Chancellor of making announcements, may present an honorary graduand for his or her degree and, as Vice-Chancellor, confers degrees when the Chancellor is unable to do so.

A Chancellor, Vice-Chancellor, Bedel and Registrar share with a seal, mace, colours, robes and coat of arms a history of hundreds of years of association with universities. Each of these traditional inheritances is a part of McMaster University and all of them come together on the platform of its Convocations.



The University Mace was a gift in 1950 from the class of 1900

McMASTER UNIVERSITY: CHANCELLORS

1887 – 1890 Malcolm Mac Vicar

1892 – 1895 Theodore H. Rand

1895 – 1905 Oates C. S. Wallace

1905 – 1911 Alexander C. McKay

1911 – 1922 Abraham L. McCrimmon

1922 – 1941 Howard P. Whidden

1941 – 1950 George P. Gilmour

1950 – 1955 E. Carey Fox

1955 – 1960 Roy L. Kellock

1960 – 1965 Charles P. Fell

1965 – 1971 D. Argue C. Martin

1971 – 1977 Lawrence T. Pennell

1977 – 1986 H. Allan B. Leal

1986 – 1992 John H. Panabaker

1992 – 1998 James H. Taylor

1998 – 2007 Melvin M. Hawkrigg

2007 – 2013 Lynton R. Wilson

2013 – Suzanne B. Labarge

PRESIDENTS

1949 – 1961 George P. Gilmour

1961 – 1972 Henry G. Thode

1972 – 1980 Arthur N. Bourns

1980 – 1990 Alvin A. Lee

1990 – 1995 Geraldine A. Kenney-Wallace

1995 – 2010 Peter J. George

2010 – Patrick Deane

PRESIDENT'S MESSAGE



Convocation is an exciting time in the calendar of any university; a time to celebrate achievement, to reflect on the past, and to anticipate the future and the path that lies ahead. It also represents a time of liberation, the ending of one phase of life and a last, symbolic statement of the discipline to which students have been required to submit themselves throughout their studies.

While it is impossible at such events not to celebrate the infinite promise of individual lives, it is important to be aware of the communal significance of convocation. In the ancient English universities, convocation was the legislative body that oversaw operations of the institution, and to be admitted to a degree was to be admitted to membership. By extension, therefore, convocation was a reaffirmation of not an individual but a joint enterprise.

Students today have learned the importance of collaboration and partnership, and more than ever understand that the future health, prosperity and cultural vitality of our society depends upon our ability to cooperate, to act together, and to learn from one another. My fervent hope is that graduating students will see their convocation not as an end of growing together, but rather as an opportunity for deepening that process. As alumni they will have many opportunities to renew existing partnerships, and they will be well prepared to forge new ones in the greater community beyond our own.

Personal fulfillment through community: this is indeed one of the longstanding paradoxes of university life, but it is surely also a sound principle for us all to pursue in the world at large. In wishing today's graduating students good luck, I feel great confidence in our joint future and great anticipation of everything that, collectively, they will achieve.

A handwritten signature in cursive script, appearing to read 'Patrick Deane'.

Patrick Deane
President and Vice-Chancellor

ALUMNI ASSOCIATION GREETINGS



On behalf of your fellow McMaster alumni, I offer you sincere congratulations for having successfully earned your degree. In addition to growing through the challenges of obtaining your formal education, I hope you have taken full advantage of everything McMaster has to offer outside the walls of the classroom.

As an alumnus or alumna you are entering a new phase in your relationship with McMaster. Graduation is merely a milestone in your life-long association with our University. As alumni, you can play a continuing role as supporters of McMaster's excellence by sharing your time, expertise, and enthusiasm with your alma mater.

As your Alumni Association, we are committed to providing you with many opportunities to maintain and grow your links with McMaster. McMaster's alumni network, events, offerings, experiences, and programs will be great resources in your post-degree endeavours. I welcome you to the next step in a rewarding and dynamic relationship with our world-class university.

A handwritten signature in cursive script, appearing to read 'Don Bridgman'.

Don Bridgman BPE '78
President, McMaster Alumni Association

SUZANNE B. LABARGE

Chancellor, McMaster University



A native of Ottawa, Dr. Labarge holds a Bachelor of Arts degree in economics from McMaster University and a Master of Business Administration from the Harvard Business School.

Dr. Labarge joined Royal Bank in 1971 and held a variety of positions within the bank prior to being appointed an executive officer in 1979. She left the bank in 1985 to join the federal government as assistant auditor-general where she was responsible for a report on Financial Management and Control in the Government of Canada.

She joined the Office of the Superintendent of Financial Institutions Canada in 1987 as deputy superintendent, policy responsible for developing regulatory policies for Canadian financial institutions. She was a member of the BIS Committee for Bank Supervision. In her last position as deputy superintendent, deposit-taking institutions, Dr. Labarge was responsible for all matters relating to deposit-taking institutions.

Dr. Labarge returned to the bank as executive vice-president, Corporate Treasury, in April 1995. She assumed the role of chief risk officer in October 1998 and was appointed vice-chairman and chief risk officer in February 1999. She retired from that position in December 2004.

Dr. Labarge is a member of the Board of Directors and Chair of the Audit Committee of Coca-Cola Enterprises. She also serves on the Board of Directors, the Audit Committee and the Risk and Finance Committee of XL Group and is trustee for a Canadian family trust and director of associated companies. She has served as a member of the Supervisory Board and Risk Committee of Deutsche Bank, as a director and chair of the audit committee of Novelis Inc and was also a member of the Board of the Bank of China, Beijing.

She served on the Board of Governors for McMaster University for twelve years. She was appointed Chancellor of McMaster University in September 2013. She also serves on the board of the Ontario Brain Institute.

She was granted an honorary Doctor of Letters degree from McMaster University and is a recipient of the Queen's Jubilee medal.

ORDER OF EXERCISES

Master of Ceremonies: Dr. David Farrar, Provost & Vice-President, Academic

Musical Prelude
The Graduand Procession
The Academic Procession
The Chancellor's Procession

Welcoming Remarks
Dr. Douglas Welch, Vice-Provost and Dean of Graduate Studies

The Chancellor's Welcome
Dr. Suzanne B. Labarge

The Conferring of the Degree Doctor of Science *honoris causa* on Gregory Fahlman
Citation: Dr. Patrick Deane, President and Vice-Chancellor

The Convocation Address
Dr. Gregory Fahlman

The Conferring of Degrees In-Course

Musical Interlude

The Presentation of the Graduates

The Valedictory Address
Dr. Tarushika Vasanthan

Awards of the 2016-2017 Session

The Alumni Address
McMaster Alumni Association

The President's Address
Dr. Patrick Deane

Announcements

The National Anthem

Convocation ceremonies will broadcast live and be archived at <http://registrar.mcmaster.ca/grad>

Follow **@McMasterConvo** on Twitter, tweet with **#MacGrad2017** and try our Snapchat filter for McMaster grads!

The President's academic regalia is a gift from the McMaster University Alumni Association.

The Convocation Music Supervisor..... Arlene Wright (Piano)
Convocation Trumpeters..... Robert DiVito and Valerie Cowie
Piper..... Jamie Connolly
Vocalist..... Margaret Bárdos

PRESENTERS OF DEGREES, DIPLOMAS, AND CERTIFICATES

Dr. Kenneth Coley,

Professor and Associate Dean (Academic) of the Faculty of Engineering

Dr. George Thomas,

Professor Emeritus of the Department of Linguistics and Languages

Dr. Michael Thompson,

*Professor and Associate Dean of the
School of Graduate Studies (Engineering)*

Dr. Douglas Welch,

Vice-Provost and Dean of Graduate Studies

DOCTOR OF PHILOSOPHY

BIOLOGY

Siavash Amon

Thesis: Regulation and Function of the Lhx gene, lin-11, in
Caenorhabditis elegans Nervous System Development

Eta Ebasi Ashu

Thesis: Population Structure and Molecular Epidemiology of the Fungal
Pathogen Aspergillus fumigatus at Global and Local Scales

Blessing Iquo Basse-Archibong

Thesis: Unravelling the Biological Roles of Kaiso in Triple Negative
Breast Cancers

Nicole Lynn Batenburg

Thesis: Functional Analysis of CSB in Telomere Maintenance and DNA
Double-Strand Break Repair

Chantel Elizabeth Korine Markle

Thesis: Landscape-Level Strategies for Conservation of Imperiled
Freshwater Turtles

Matthew Moody

Thesis: Non-Coding RNAs and mRNA Secondary Structure in
Streptomyces

Ayush Ranawade

Thesis: PRY-1/AXIN Regulate Aging, Lipid Metabolism and Seam-Cell
Asymmetric Cell Division in Caenorhabditis elegans

Shaiya Celena Robinson

Thesis: Molecular & Biological Characterization of the POZ-ZF
Transcription Factor KAISO in Intestinal Homeostasis

Tarushika Vasanthan

Thesis: Extreme Tolerance in the Eutardigrade Species Hypsibius
dujardini

Vera Marjorie Elauria Velasco

Thesis: Traits Underlying Phosphorus Use by the Extremophyte Eutrema
salsugineum

Daniel Cullen Wilson

Thesis: Flowering-Time Regulators and Intercellular Salicylic Acid
Contribute to Age-Related Resistance in Arabidopsis thaliana

BIOMEDICAL ENGINEERING

Madiha F. Khan

Thesis: The Antibacterial Activity of Silicone-Polyether Surfactants

Anna Korol

Thesis: The Role of Cytoskeletal Signaling in Lens EMT

Ben Muirhead

Thesis: Ophthalmic Biomaterials

CHEMICAL BIOLOGY

Carla Brown

Thesis: Design and Synthesis of Novel Small Molecule Antimicrobials

Ashraf Mohamed Ibrahim

Thesis: Microbial Secondary Metabolomics for Natural Product
Discovery: Development of Metabolomic Tools and Strategies
for the Discovery of Specialized Metabolites from Bacteria and
Endophytic Fungi

DOCTOR OF PHILOSOPHY (CONTINUED...)

CHEMICAL ENGINEERING

Ali Goger

Thesis: Solvent-Free Extrusion Emulsification Inside Twin Screw Extruder

Stephanie Ann Kedzior

Thesis: Surface Functionalized Cellulose Nanocrystals for Synthetic Latex Property Modification

Lei Lei

Thesis: Synthesis and Application Development of Oxygen (O₂) and Carbon Dioxide (CO₂) Switchable Polymer

Meng Li

Thesis: Mechanoresponsive Polymers Based on Spiropyran Mechanophore

Yang Liu

Thesis: Twin Screw Wet and Dry Granulation

Darko Ljubic

Thesis: Materials and Interface Engineering for Solution Processed UV Light Responsive Organic Phototransistors

Emilia Paron

Thesis: Designing Injectable Poly(Oligo Ethylene Glycol Methacrylate)-Based Hydrogels for Drug Delivery and Tissue Engineering Applications

Vida Rahmani

Thesis: Latent Variable Methods in Protein Delivery Applications

Michael Shawn Reid

Thesis: Characterizing the Particle-Particle and Particle-Polymer Interactions that Control Cellulose Nanocrystal Dispersion

Philip Alexander Tominac

Thesis: Game Theoretic Approaches to Petroleum Refinery Production Planning – A Justification for the Enterprise Level Optimization of Production Planning

CHEMISTRY

David Bowman

Thesis: Chemical Fingerprinting of Naphthenic Acids by Comprehensive Two-Dimensional Gas Chromatography Mass Spectrometry at Reclamation Sites in the Alberta Oil Sands

James Toohey Goettel

Thesis: Oxide and Oxide Fluoride Chemistry of Xenon(VIII), Xenon(VI), and Iridium

Farnaz Heidar-Zadeh

Thesis: Variational Information-Theoretic Atoms-in-Molecules

Sabrina Hodgson

Thesis: Poly(ethylene glycol) Hydrogels Crosslinked via the Strain-Promoted Alkyne-Azide Cycloaddition

Myongwon Lee

Thesis: Synthetic, Structural and Computational Studies of Organo-chalcogen Supramolecular Building Blocks

Shuai Liang

Thesis: Reversible Functionalization of Single-Walled Carbon Nanotubes by Switchable Conjugated Polymers

Ahmed Mohammed

Thesis: Accurate Calculations of Nonlinear Optical Properties Using Finite Field Methods

Amirmasoud Mohtasebi

Thesis: Interfacial Interactions of Oligoanilines with Solid Surfaces

Kelly Sarah Anne Motolko

Thesis: Rare Earth and Group 4 Transition Metal Complexes of Rigid Dianionic Pincer Ligands

CIVIL ENGINEERING

Wendy Huang

Thesis: Electrochemistry Applications for Sustainable Energy

Sina Moallemi

Thesis: Numerical Modeling of Localized Damage in Plain and Reinforced Concrete Structure

Ahmad Siam

Thesis: Multivariate Data Analysis for Force-, Displacement-, and Performance-Based Seismic Design of Reinforced Masonry Shear Walls

COMPUTATIONAL SCIENCE & ENGINEERING

Farouq Mohammad Alam

Thesis: Likelihood Inference for Multiple Step-Stress Models from a Generalized Birnbaum-Saunders Distribution under Time Constraint

Haoyue Bai

Thesis: Structural Factorization of Squares in Strings

DOCTOR OF PHILOSOPHY (CONTINUED...)

Jaskiret Dhindsa

Thesis: Generalized Methods for User-Centered Brain-Computer Interfacing

A S M Sohidull Islam

Thesis: Repeats in Strings and Application in Bioinformatics

COMPUTER SCIENCE

Adam Lenarcic

Thesis: Rough Sets, Similarity, and Optimal Approximations

Hongfeng Liang

Thesis: Novel Stochastic Programming Formulations for Assemble-to-Order Systems

EARTH AND ENVIRONMENTAL SCIENCES

Zobia Jawed

Thesis: An Examination of Sediment Management Processes in the Great Lakes and the Use of a Decision Support System (DSS) Framework for Sediment Remediation Projects

Shawn Edward Kovacs

Thesis: Development and Calibration of "Calcite Rafts" as a Proxy for Holocene Aquifer Conditions in Anchialine Settings, Quintana Roo, Yucatán Peninsula, Mexico

Kelly Jane Whaley-Martin

Thesis: Examining Microbial Carbon Source Cycling in Arsenic Contaminated Bangladesh Aquifers through Lipid and Isotopic Analyses

ELECTRICAL AND COMPUTER ENGINEERING

Xuesong Chen

Thesis: Noise Characterization and Modeling of Nanoscale MOSFETs

Krishanth Krishnan

Thesis: Tracking Pedestrians with Known/Unknown Interactions and Influences

Huaying Li

Thesis: Semi-supervised Information Fusion for Clustering, Classification and Detection Applications

Mostafa Medra

Thesis: Offset-Based Beamforming: A New Approach to Robust Downlink Transmission

Naby Nikookaran

Thesis: Combining Capital and Operating Expenditure Costs in Vehicular Roadside Unit Placement

Denys Shumakov

Thesis: Development of a Near-Field Microwave Imaging System

Yuanhao Yu

Thesis: Pattern Extraction by Modeling Image Spatial Relationship

ENGINEERING PHYSICS

Ahmed Mohamed Sayed Ahmed Abdalla

Thesis: Synthesis and Characterization of Magnetic Carbon Nanotubes

Matthew Bumstead

Thesis: Simulating Self-Assembly of Organic Molecules & Classifying Intermolecular Dispersion

Jason Sharpe

Thesis: Innovative Analysis Techniques for Canadian SCWR Neutronics

Zhao Wang

Thesis: Silicon Micro-Ring Resonator Modulator for Inter/Intra-data Centre Applications

KINESIOLOGY

Jason Au

Thesis: Carotid Artery Longitudinal Wall Motion: Regulatory Factors and Implications for Arterial Health

Jeffrey Michael Baker

Thesis: The Effects of Exercise on Hematopoiesis

Kirsten Elizabeth Bell

Thesis: Multi-Factorial Exercise and Nutrition Strategies to Improve Strength and Other Measures of Muscle Function and Health in Older Adults

Karissa Canning

Thesis: Physical Activity and Multiple Sclerosis

Alison Colleen McDonald

Thesis: Understanding the Response of the Shoulder Complex to the Demands of Repetitive Work

DOCTOR OF PHILOSOPHY (CONTINUED...)

Joshua P. Nederveen

Thesis: The Relationship between Capillaries and Muscle Stem Cells: Consequences for Adaptation, Repair and Aging

Yuhong Wei

Thesis: Extending Growth Mixture Models and Handling Missing Values via Mixtures of Non-Elliptical Distributions

MATERIALS ENGINEERING

Hanshuo Liu

Thesis: Electron Microscopy Study of the Chemical and Structural Evolution of Lithium-Ion Battery Cathode Materials

Steffi Yee-Mei Woo

Thesis: Anomalous Structural Variations in III-Nitride Nanowire Heterostructures and Their Corresponding Optical Properties

MATERIALS SCIENCE

Mustafa Sami Ata

Thesis: Fabrication and Characterization of Advanced Materials and Composites for Electrochemical Supercapacitors

Edson Pazur Bellido Sosa

Thesis: Characterization of Surface Plasmon Resonances in Metallic Planar Nanostructures by Electron Energy Loss Spectroscopy

Mark Fraser

Thesis: The Study of Architected Materials with a Corrugated Geometry

Kezhuan Gu

Thesis: Dephosphorization Kinetics for Reaction of Bloated Metal Droplets with Oxidizing Slag

MATHEMATICS

Sandip Barui

Thesis: Cure Rate and Destructive Cure Rate Models under Proportional Hazards Lifetime Distributions

Syantee Jana

Thesis: Inference for Generalized Multivariate Analysis of Variance (GMANOVA) Models and High-dimensional Extensions

Chengwei Qin

Thesis: The First Passage Time of Degradation Processes

Alessandro Maria Selvitella

Thesis: Some Contributions to Distribution Theory and Applications

MECHANICAL ENGINEERING

Mohamed Yasser Abdelsalam

Thesis: Study of Fully-Mixed Hybrid Thermal Energy Storage with Phase Change Materials for Solar Heating Applications

Earl Fairall

Thesis: Design Considerations for High Surface-Speed and High-Load Switched Reluctance Machines

Reza Ghaemi

Thesis: Microfluidics Devices for Drosophila-based Drug Discovery Assays

Chuan Hu

Thesis: Robust Path Following Control for Independently Actuated Autonomous Ground Vehicles with Transient Performance Improvement

Jinbiao Ning

Thesis: Active Disturbance Estimation and Compensation for Improving Diesel Aftertreatment Performance

Mohammed Abdelkader Abdelfattah Shaker

Thesis: Investigation of Mechanical Performance and Formability of Welded and Brazed Sheet Materials

Junfeng Yuan

Thesis: Control of Tribofilms Formation in Machining Hard Materials

NEUROSCIENCE

Ritesh Daya

Thesis: The Investigation and Development of Novel Molecules, Models and Tools for the Treatment and Study of Schizophrenia

Melissa Danielle McCradden

Thesis: The Neuropsychiatric Sequelae of Concussion: Towards an Understanding of the Neurobiology

Manpreet Sehmbi

Thesis: Intracortical Myelin in Bipolar Disorder and its Relation to Cognitive Function and Peripheral Blood Markers

DOCTOR OF PHILOSOPHY (CONTINUED...)

Sabrina Kaur Syan

Thesis: Neural Correlates of Premenstrual Dysphoric Disorder in Women with Bipolar Disorder

PHYSICS AND ASTRONOMY

Alexander James Cridland

Thesis: Connecting the Chemical Composition of Planetary Atmospheres with Planet Formation

Gwendolyn Marie Eadie

Thesis: Lights in Dark Places: Inferring the Milky Way Mass Profile using Galactic Satellites and Hierarchical Bayes

Alannah Mackenzie Hallas

Thesis: The Effect of Chemical Pressure on the Magnetic Ground States of Rare Earth Pyrochlores

Corey Stan Howard

Thesis: The Effects of Radiative Feedback on Star Cluster Formation and the Galactic Interstellar Medium

Gandhali Joshi

Thesis: Mass Loss and Preprocessing of Galaxies Traversing Group Environments

Peter Lunts

Thesis: Low Energy Properties of the Antiferromagnetic Quantum Critical Metal in Two Dimensions

Angus King Fai Mok

Thesis: The Effects of Environment on the Atomic and Molecular Gas Properties of Star-Forming Galaxies

Jesse Donald Mumford

Thesis: Singularities in a BEC in a Double Well Potential

Timothy John Sagan Munsie

Thesis: Synthesis and Characterization of Constrained Magnetism in Niobates

PSYCHOLOGY

Evan Borman

Thesis: The Impact of Bisphenol A in Combination with Stress and Diethylhexyl Phthalate on Implantation, Uterine Morphology, and Adhesion Protein Expression in Inseminated Female Mice

Aneesh Bose

Thesis: Offspring Cannibalism and Parental Care in the Plainfin Midshipman Fish

Andree Nicole LeBarr

Thesis: A Self-Heuristic Biases Perception and Representation of Novel People and Objects

Luxi Li

Thesis: Investigation of an Adaptation-induced Tactile Spatial Illusion: Psychophysics and Bayesian Modeling

Tyler Pollock

Thesis: Concentrations of Bisphenol A and Estradiol are Elevated by Exposure to Endocrine-Disrupting Chemicals

Alva Tang

Thesis: The Development of Shyness from Childhood to Adulthood: Subtypes, Biological Mechanisms, Correlates, and Outcomes

Ye Yuan

Thesis: Pictures, Pantomimes, and a Thousand Words: The Neuroscience of Cross-Modal Narrative Communication in Humans

RADIATION SCIENCES (MEDICAL PHYSICS)

Eric Johnston

Thesis: Design, Optimization, and Testing of a Combined Tri-Axial Polarized Energy Dispersive X-Ray Fluorescence and Energy Dispersive X-Ray Diffraction System for Biological Sample Classification

SOFTWARE ENGINEERING

Zhongzhen Luo

Thesis: LiDAR Based Perception System: Pioneer Technology for Safety Driving

Hamid Mohammad Gholizadeh

Thesis: A Query Structured Model Transformation Approach

MASTER OF ARTS

GEOGRAPHY

Larissa Marie DiBartolo

Kaitlin Elizabeth Hendershott

MASTER OF SCIENCE

BIOLOGY

Rachelle Atrache
Taylor Mitchell Brooks
Christopher Donald Firby
Daniel Kuo-Chee Hsieh
Wenjing Hua
Paul Peter Knoops
Jakub Kosakowski
Adomas Kulesza
Reyna Matties
Ramandeep Pabla
Nicole Angela Pranckevicius
Yapa Samarasinghe
Alexander Mulligan Shephard
Shayenthiran Sreetharan
Jonathan Bao-Khuong Tran
Courtney Anne Young

CHEMICAL BIOLOGY

Urooj Gill
Aric Huang
Zoya Elizabeth Erika Naperstkw
Jennifer Wild
Christal Zhou

CHEMISTRY

Allan He
Vinod Prabu
Md Omar Sharif

COMPUTATIONAL SCIENCE AND ENGINEERING

Xiao Li
Adam Andrzej Sliwiak

COMPUTER SCIENCE

Guang Sheng Mo
Natalie Perna
Mojdeh Sayari Nejad

EARTH AND ENVIRONMENTAL SCIENCES

Samantha Katherine Feist
Cristina Marie Genovese
Corey Adam Goad
Logan Matthaus Jung-Ritchie
Florent Frédéric Risacher
Ryan Lawrence Rolick
Alanna Grace Smolarz
Jacob Walter Douglas Strong
Kelly Cecelia Whelan

GEOGRAPHY

Wei Lu
Shelby Lisabeth Sturrock

KINESIOLOGY

Jem Louise Cheng
Athan Dial

Hunter James Fassett
Florence Elizabeth Godkin
Ana Kovacevic
Jason Howard Langvee
Emily Mary Paolucci
Vanessa Leigh Pickard
Stacey Priest
Nicole Yinyi Shen
Jessica Katherine Skultety
Tiffany Luise vanLieshout

MATHEMATICS

Tedra Bolger
Samuel James Budd
Brydon Eastman
Becky Michelle Hooper
Jin Li
Evan James Mitchell
Michael James Riddell
Lee Walter van Brussel
Kuan-Lin Wu

NEUROSCIENCE

Casey Jane Myers
Shreya Prashar
Cory Michael Richman
Rohie Sharma
Omar Shawaf

PHYSICS AND ASTRONOMY

Benjamin Richard Davis-Purcell
Fraser Alexander Fife Evans
Wyatt James Kirkby

Chi To Lai
Sarah McKenzie-Picot
Jean-Christophe Ono-dit-Biot
Benjamin Kenneth Dale Pearce
Sean Kentaro Sullivan Takahashi
Xin Wang

PSYCHOLOGY

Rita Abdel-Baki
Michael David Barone
Arnav Bharadwaj
Stefania Cerisano
Kyung-Hyun Ruth Kim
Robert Mastroieni
Jessica Susan Miller
Anna Elizabeth Siminoski
Joanna Spyra

RADIATION SCIENCES (MEDICAL PHYSICS)

Erica Dao
Tomas Richard Ulrich

STATISTICS

Sarah Ali Alattas
Kyran Christopher Cupido
Joanne Elizabeth Gittens
Kevin Matira
Angelina Pesevski
Sarah Katherine Ricciuti
Tyler Roick
Peter Alexander Tait

MASTER OF APPLIED SCIENCE

BIOMEDICAL ENGINEERING

Mitchell William George Doughty
Emily Anne Hicks
Melizeth Mazumdar Bolanos
Alysha Annette Spadafora

CHEMICAL ENGINEERING

Mohammed Alturkestany
Wael Hassan El Assaad
Haoxiang Lai
Hanief Yousefi

CIVIL ENGINEERING

Ahmed Ismail
Wei Liu
Roya Pourzarea
Alexander Sciascetti

ELECTRICAL AND COMPUTER ENGINEERING

Bharat Agrawal
Sara Alizadeh
Rishad Arfin
Ying Cui
Haoding Li
Bolin Liu
Fangzhou Luo
Yingchan Qiao
Muzamil Mohammad Rashid
David Schumacher
Daniel Tajik
Keqi Wei
Duo Yang
Wei Zhao

ENGINEERING PHYSICS

Austin Michael Brown
Edward Matthew Glanfield

Jared Goguen
Christopher William Hollingshead
David André Joyal
Travis Sheasgreen
Brendan Anthony Wood
Simon Younan

MATERIALS ENGINEERING

Kazi Mahmudul Haque Bhadhon
Evan Mark William Drew
Nilushi Christine Kariyawasam
Jieming Li
Keyan Miao
Daniel Alejandro Osorio
Christopher Leandro Pashartis
James Tedesco
Cameron Jon Wallar

MECHANICAL ENGINEERING

Marko Arezina
Sean Hodgins
Hannah Robertson Koke
Robert Anson Lau
Paul Richard Ricciuti
Eric Thompson
Paul Jonathan Vanoostveen
Yile Wang
Yeshan Wu
Min Xu
Mohammed Zaher
Xiaowei Zhang

SOFTWARE ENGINEERING

Adrian Burlacu
Nathan Shane Chadder
Zhuoyu Sun
Vinay Yuvashankar

MASTER OF ENGINEERING

ADVANCED DESIGN AND MANUFACTURING INSTITUTE (ADMI)

Robert Steve Horvath

CIVIL ENGINEERING

Xiaoyang Ji
Yuhang Jiang

COMPUTER SCIENCE

Yue Gui
Shengjie Huang

ELECTRICAL & COMPUTER ENGINEERING

Nathan Reuel DeJong
Zhiwen Guo
Muhammad Zeeshan Ahmed
Karim

ENGINEERING PHYSICS

Ilnaz Vahdati

SOFTWARE ENGINEERING

Qian Shan

MASTER OF ENGINEERING DESIGN

Eniola Alese
Chinonso Obinna Amadi
Michael Chukwuma Asuzu
Nathaniel Akolade Ayanlowo
Yongxi Chen

Nadim El Dirani
Daniel Gonzalez Cherician
Mrugensinh Gothana
Xiao Han
Dashui Hong

Mina Hosseinzadeh
Jie Huang
Sarvesh Girish Karandikar
Kamaldeep Kaur
Parminder Kaur

Himanshu Dilipkumar Lad
Pablo Daniel Lascano Montero
Ningxin Li
Fangfang Liu
Shuo Nan Liu

MASTER OF ENGINEERING DESIGN (CONTINUED...)

Lovedeep Singh Lotey
Dongye Lu
Christopher Lintz Macedo
Atif Mehmood
Varun Panchal
Sanjna Pradhan

Jiaman Ren
Meet Dharmendrakumar Shastri
Manpreet Singh Sidhu
Iqbal Singh
Jaspreet Singh
Karan Singh

Sandeep Singh
Tajinder Pal Singh
Yibo Sun
Simrat Singh Thandi
Yukun Wang
Tegiola Xhemalaj

Fengshuo Yang
Haohui Yin
Ruobing Zhao
An Zhu

MASTER OF ENGINEERING AND PUBLIC POLICY

Christopher William Boothe
Hatim Elsadig Elamin Elhag
Augusta Obianuju Eruero

Prakash Chandra Jha
Kimberly Elizabeth Jusek
Harshal Patel

Krupesh Patel
Bruno Ruberwa
Zhiyuan Yang

Junxi Yu

MASTER OF ENGINEERING IN MANUFACTURING ENGINEERING

Zurisdai Gomez Cruz

Patrick Mayer

BACHELOR OF SCIENCE HONOURS

Hawwa Abdul-Noor Life Sciences
Muhammad Abideen..... Life Sciences
David Aceituno-Caicedo..... Life Sciences
Archana Ahilan..... Chemistry
Luke Bayer.....Biology
(*Minor in German*)
Mindy Erin Chapman..... Integrated Science
(*Minor in Physics*)
Rebecca Crawford..... Life Sciences
(*Minor in Psychology*)
Natiia Daneliia Life Sciences
Jasmine Deol Life Sciences
Nishitha Reddy Depa Life Sciences
Kayla Tracey Desaulniers.....Psychology,
Neuroscience & Behaviour
Waleed Azhar Dhillon Life Sciences
(*Minor in Sustainability*)
Cindy Doan Chemistry
Amanda Dorner Life Sciences
Connor Nicholas Egan..... Life Sciences
Charandeep Singh Farma..... Life Sciences
★ Ramtin Ghasemi.....Biology

Elizabeth Catherine Giles..... Life Sciences
(*Minor in Biology*)
Rachel Goodland Life Sciences
(*Minor in Health, Aging & Society*)
Jessica Gualtieri Life Sciences
Wen Yue Kang..... Life Sciences
Mustafa Karemzadah Life Sciences
★ Sidrah Romana KarimPsychology,
Neuroscience & Behaviour
Bakht-Awar Khan Life Sciences
(*Minor in Sustainability*)
Danyal Mushtaq Khan..... Life Sciences
Bum Soo Kim.....Actuarial & Financial Math
(*Minor in Economics*)
★ Wai Ying LamBiology & Environmental
Sciences
Jiwon Lee..... Chemistry
Chang Liu.....Actuarial & Financial Math
Sherry Luo Mathematics & Statistics
Colin Brandon MacDonald Chemistry
Steven John Mallette Geography &
Environmental Sciences
Sheharzad Memon Life Sciences

Sumeya Zeki Mukhtar Life Sciences
Annie Nguyen..... Life Sciences
Isabella Bao-Thi Nguyen..... Life Sciences
Mark Douglas Paddey Earth & Environmental
Sciences
Agamsharan Patel Life Sciences
Fei Yu Peng.....Actuarial & Financial Math
(*Minor in Economics*)
Natasha Porfirio Life Sciences
(*Minor in Biology*)
Prashanth Rajasekar Life Sciences
Prabhsimranjit Singh Rajput Chemistry
Priyancee Sabhaya..... Life Sciences
Manvir Singh..... Life Sciences
Rim Tarzi Life Sciences
Dissneya Theiventhirarajah Life Sciences
Christine Yachouh Earth & Environmental
Sciences
(*Minor in Sustainability*)
Jingpeng Zhai..... Life Sciences
(*Minor in Biochemistry*)
★ Junyi Zhang.....Actuarial & Financial Math
(*Minor in Economics*)

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)

BACHELOR OF SCIENCE KINESIOLOGY

HONOURS

Anthony Aplidgiotis
Jason Paul Buckle
Alyssa Carolle Lacroix

★ Nicole Purdie
(*Minor in Psychology*)

BACHELOR OF SCIENCE KINESIOLOGY

★ Klein Hsiu Waan Chang

Brett Michael Dykstra

Kayleigh Gaiser

BACHELOR OF SCIENCE

Aatiqiha Ashrana Abdin..... Environmental Sciences
Nafis Addnan..... Life Sciences
Sayyeda Naila Ali..... Life Sciences
★ Miriam Armanious Life Sciences
Saleha Fatima Bakht..... Mathematical Science
★ Chirayu Mayank Bhatt..... Life Sciences

Landon Vincent Catenacci..... Life Sciences
★ Pallav Kapur Life Sciences
★ Aisha Khan Life Sciences
★ Carolyn Kuo Life Sciences
Michelle Lee..... Life Sciences
Jingxuan Li Mathematical Science
Laxman Perinpanathan..... Mathematical Science

Sofia Marryam Qasim Life Sciences
★ Giancarlo Corrado Valente..... Life Sciences
Haiyun Wang..... Mathematical Science
Meghan Paige Wendorf..... Life Sciences
★ Cynthia Wong..... Life Sciences
★ Zhaoxin Zou..... Life Sciences

BACHELOR OF ENGINEERING AND MANAGEMENT

★ Fady Abdelmalik.....Software

★ Kieran Arthur Hurst.....Civil

Uthman Shahbaaz Khan.....Civil

BACHELOR OF ENGINEERING AND SOCIETY

Cristian Florin Ivascu.....Mechanical

BACHELOR OF ENGINEERING

★ Neil ActonElectrical & Biomedical
Syed Owais Ahmed.....Electrical
Abdallah Mohamad Fawaz Alfakir.....Mechanical
Nicholas Michael Annable..... Mechatronics
Mathew Nicholas Artemenko..... Software
Athavan ArulalaganChemical
Christopher Kevin Campbell.....Software
Arthur Chen.....Software

Paul Jorge Correia..... Mechatronics
Rahul DevnaniElectrical
(*Minor in Information Systems*)
★ Jean Lucas Ferreira.....Software
Gureet Grewal.....Electrical
Jason HuangElectrical
Bilal Anjum Ishtiaque.....Software
Annoj JeyalingamMechanical

★ Kody Quinn KazdaChemical
Yuchen Chen Lu.....Materials
Abdihakim Mohamed.....Materials
Ildar SamigullinComputer
Connor Gill SheehanSoftware
Emmanuel ThiessenSoftware
Devin Thomas.....Software
Daniel WebberComputer

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)

BACHELOR OF TECHNOLOGY

Omar Adham	Automotive & Vehicle Engineering Technology	Garima Kaul.....	Software Engineering Technology	Aamir Shaikh.....	Civil Engineering Infrastructure Technology
Adam Mervyn Anderson	Software Engineering Technology	Zuheb Syed Khaja Ajmal Hussain.....	Manufacturing Engineering Technology	Gaurav Sharma.....	Software Engineering Technology
★ Eddison Balfour	Civil Engineering Infrastructure Technology	★ Gavin Kisun	Manufacturing Engineering Technology	★ Justin Herman Siemens.....	Manufacturing Engineering Technology
Lawrence Tei-Yin Cheuk.....	Automation Engineering Technology	Hardik Bharatbhai Kothari.....	Automotive & Vehicle Engineering Technology	★ Gagandeep Syan	Manufacturing Engineering Technology
Vladimir Djeric.....	Manufacturing Engineering Technology	Frank Weikang Lin.....	Manufacturing Engineering Technology	Papa Abdoulaye Thiam	Power and Energy Engineering Technology
★ Horia Ionut Herman...	Manufacturing Engineering Technology	★ James Marcogliese.....	Software Engineering Technology	Stanislav Tsysar	Civil Engineering Infrastructure Technology
Meftuh Ahmed Ibrahim.....	Manufacturing Engineering Technology	Stephan Panarese	Automation Engineering Technology	★ Qing Wu	Civil Engineering Infrastructure Technology
Andre Iori.....	Civil Engineering Infrastructure Technology	Venkatesa Prasanna Ravinuthala	Manufacturing Engineering Technology		

GRADUATE DIPLOMA IN WATER WITHOUT BORDERS

Maria Nikkita Cataluna
Faria Faiz
Kimberly Elizabeth Jusek

Young Eun Kang
Konrad Tomasz Lisnyj
James Alexander MacDonald

Melina Mamone
Krupesh Patel
Hooria Raza

Names of graduands listed in this program are those recommended to Senate as of November 8, 2017.

We regret that late additions to the graduation lists could not be included in this program. Some names of graduands may not be included in this program at the request of those individuals.

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)

HONORARY DEGREE RECIPIENTS



Faculties of Business, Humanities, Social Sciences and the Arts & Science Program (Morning Ceremony)

David Lazzarato, *Doctor of Laws*

David Lazzarato was born and raised in Hamilton and earned his Bachelor of Commerce degree from McMaster University in 1979 and then his Chartered Accountant (CA) designation in 1981. He was named a fellow of the Institute of Chartered Accountants in 2006. Lazzarato began his career in public accounting in Hamilton, then moved into senior finance roles with CAE, the world's largest flight simulator company. He was the controller for BCE Inc. and then senior vice-president and CFO for Bell Mobility at the time digital technology was introduced in wireless in Canada. Lazzarato then joined Allstream as the company's executive vice-president and CFO, leading the company through one of the largest restructuring transactions in Canadian history, before taking on the role of chief corporate officer with MTS (Manitoba Telecom Services).

Lazzarato then joined Alliance Atlantis Communications Inc. as executive vice-president and CFO, as well as chairman of Motion Picture Distribution. Before his retirement in 2011, as a consultant Lazzarato assisted Bell Canada with their entry into the media and broadcast sectors with their acquisition of CTV.

An active volunteer, Lazzarato has been the Chair of the Council of Chairs of Ontario Universities and the vice-chair of the board of directors for the Trillium Health Centre Foundation. Appointed to the McMaster Board of Governors in 2008, he chaired the President's Advisory Committee on the Impact of the Current Economic Situation (2009/10) and the Committee to Recommend a President (2014). He served until 2016, a term that included two years as board chair. Lazzarato currently serves on two public company Boards and has recently joined the Board of Hamilton Health Sciences.

Lazzarato and his wife Lori Loparco have six children, three of whom have (or will soon have) graduated from McMaster.



Faculty of Health Sciences (Afternoon Ceremony)

Sir Rory Collins, *Doctor of Science*

Using large-scale randomized trials to assess the clinical safety and efficacy of treatments for vascular disease, Sir Rory Collins has improved the health of tens of millions of people worldwide. A professor of Medicine and Epidemiology and head of the Nuffield Department of Population Health at the University of Oxford, he is also principal investigator and chief executive of UK Biobank.

Collins' research focuses mainly on the treatment of acute heart attacks, anti-thrombotic treatments and blood pressure. He has also contributed significantly to our understanding of the effects of blood lipids on arterial disease and the safety and efficacy of lipid-lowering statins. He coordinated the influential International Studies of Infarct Survival mega-trials and created the Cholesterol Treatment Trialists' collaboration. By 2012, Collins had become Europe's most widely cited clinical medicine scientist.

A fellow of the Royal Society, Collins is also a fellow of the Royal College of Physicians (RCP) Faculty of Public Health and an honorary fellow of the RCP Faculty of Pharmaceutical Medicine. His numerous awards include the European Award for Excellence in Stroke Research, the European Society of Cardiology Gold Medal, the British Cardiovascular Society Mackenzie Medal, the Royal College of Physicians Ambuj Nath Bose Medal and the International Okamoto Award from the Japan Vascular Disease Research Foundation. Collins was knighted in 2011.

HONORARY DEGREE RECIPIENTS (CONTINUED...)



Faculties of Engineering and Science (Morning Ceremony)

Gregory Fahman, *Doctor of Science*

As general manager of National Research Council Canada Herzberg Astronomy and Astrophysics, Gregory Fahman has operated Canada's national observatories and astronomy data centre since 2003. An expert in star clusters, galaxy clusters, white dwarfs, stellar populations and photometry, he has been a visiting professor at the University of California, Santa Barbara and University of Hawaii, as well as the Rheinhardt Fellow at the Canadian Centre for Theoretical Astrophysics.

Fahman's research has had a significant influence on observational galactic and extragalactic astronomy. He is a leader in the measurement and disentangling of major stellar components of galaxies using properties such as age, dynamics and abundance of elements heavier than hydrogen and helium. He has also undertaken important studies of Milky Way star clusters, with an emphasis on exploring the remnants of the oldest stars which are used to set an independent limit on the age of the universe.

A member of the Order of British Columbia and a fellow of the Royal Society of Canada, Fahman has chaired the CASCA Committee for Image Processing, the Canadian Time Allocation Committee, the Joint Subcommittee for Space Astronomy, and the Canada Foundation for Innovation Special Multidisciplinary Assessment Committee for Major Science Initiatives. He is a member of the boards of directors for the Gemini Observatory, Square Kilometre Array Organization, the James Clerk Maxwell Telescope and the Canada-France-Hawaii Telescope.

DISTINGUISHED ALUMNI

The Distinguished Alumni Award recognizes McMaster University graduates who have attained a high level of distinction and achievement through scholarship, research, teaching, creative contributions to the arts or sciences and/or service to society. This Award is intended to honour alumni whose accomplishments and contributions are of national and/or international significance, and/or have had a seminal or transformative impact on their field of endeavour.



Faculties of Business, Humanities, Social Sciences, and the Arts & Science Program (Morning Ceremony)

Patricia Demers

Patricia Demers is a two-time McMaster graduate who is a Distinguished University Professor at the University of Alberta where she has served as chair of the Department of English and Film Studies and as associate dean of Graduate Studies. She is also a decorated teacher, having collected awards including the Rutherford Award for Excellence in Undergraduate Teaching, the Arts Faculty Teaching Award and the University Cup.

Demers has produced important scholarly work focused on early modern women's writing, Shakespearean and Jacobean drama, feminist hermeneutics and children's literature. Her books include *Instruction to Delight: Children's Literature to 1850*, *Women as Interpreters of the Bible*, *Louis Hémon's Maria Chapdelaine* and *Women's Writing in English: Early Modern England*.

Demers, who has served as vice-president of the Social Sciences and Humanities Research Council, was the first female president of the Royal Society of Canada. She also chaired the Royal Society Expert Panel on "The Future Now: Canada's Libraries, Archives and Public Memory." She is a fellow of the Royal Society of Canada and a member of the Order of Canada.



Faculty of Health Sciences (Afternoon Ceremony)

Brian Bloom

A graduate of McMaster's biochemistry program, Brian Bloom was a PhD candidate in the Department of Physiology & Biophysics at the Mount Sinai School of Medicine when he decided to pursue a career that connected biotechnology and investment. He began working as an investment banking analyst in New York before returning to Canada to join Dundee Securities Corporation where he helped build the most profitable healthcare banking team in the country.

In 2008, Bloom co-founded the life sciences investment bank Bloom Burton & Co. which is well known for both its investment track record and for delivering the annual Bloom Burton Healthcare Investment Conference. Bloom is also a co-founder of a number of health-related companies including the McMaster spin-out Triumvira Immunologics.

A past member of the advisory board of the Cell Therapy Institute at Princess Margaret Hospital and the University of Toronto, Bloom also served on the advisory board for McMaster's Farncombe Family Digestive Health Research Institute. He is a member of the boards of directors for BIOTECANADA and the Baycrest Hospital Foundation.

GOVERNOR GENERAL'S ACADEMIC MEDAL

Lord Dufferin, Canada's third Governor General after Confederation, created the Academic Medals in 1873 to encourage academic excellence across the nation. The Governor General's Academic Medal recognizes the graduate students graduating with the highest academic standing.



Faculty of Science (Friday Morning Ceremony)

Dr. Farnaz Heidar-Zadeh

Farnaz Heidar-Zadeh completed her dual-PhD in Chemistry (McMaster) and Physics (Ghent University, Belgium) under the supervision of Paul W. Ayers in the Department of Chemistry and Chemical Biology. As a theoretical chemist, Farnaz's research focuses on developing new mathematical tools, numerical algorithms, and computer software to qualitatively and quantitatively predict the outcome of chemical phenomena. Working on a diverse set of topics ranging from fundamental quantum chemistry to machine-learning, her main contribution was developing a unified information-theoretic framework for partitioning molecules into atoms and functional groups, which subsumes most of the previous work in this area and offers a mathematically elegant partitioning scheme. Farnaz has published thirty-two peer-reviewed publications (fifteen first author articles, twelve coauthored articles, and five book chapters), and has given thirty-two oral and poster presentations at conferences and universities around the world. She has received many awards including the NSERC Vanier Canada Graduate Scholarship (ranked 2nd nationwide), and the Michael Smith Foreign Study Supplement. Her passion for learning and expanding her horizon was fostered through various international collaborations during her PhD, and lead her to undertake a postdoctoral associate position at University of Luxembourg where she is currently pursuing her research.

VALEDICTORIANS

Faculties of Business, Humanities, Social Sciences, and the Arts and Science Program (Thursday Morning Ceremony)

Kaitlin Debicki

Faculty of Health Sciences (Thursday Afternoon Ceremony)

Gautham Krishnaraj

Faculties of Engineering and Science (Friday Morning Ceremony)

Tarushika Vasanthan

GRADUATING STUDENT AWARDS BY APPLICATION

Congratulations to McMaster's newest graduates!

You are invited to apply for the 2017/18 Graduating Student Awards. Award details are available on the Student Financial Aid & Scholarships (SFAS) website at <https://sfas.mcmaster.ca> under Scholarships for Graduating Students. Application forms are available by emailing sfas@mcmaster.ca. Submit your completed applications by March 31st 2018. Best wishes from the SFAS Team!



Graduates who have pre-ordered degree frames and gifts from the McMaster Campus Store website may pick up their items on site when the ceremony is complete and their gowns have been returned. Your degree will be framed in this location.

For those who have purchased a degree frame today before the ceremony, or would like to purchase a degree frame after the ceremony please visit the main lobby where the Campus Store offers a wide selection of Official McMaster University degree frames, crested giftware and limited edition Class of 2017 merchandise. A representative from Josten's will be on hand before and after all graduation ceremonies to help size and design the perfect ring for your graduate. Complementary degree framing also takes place in the lobby area.



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