Five hundred and seventy-fifth 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.
ORDER OF EXERCISES

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

The Dean’s Welcome
Dr. Ishwar Puri

The Chancellor’s Welcome
Dr. Suzanne B. Labarge

The Conferring of the Degree Doctor of Science
honoris causa on R. G. Hamish Robertson
Citation: Dr. Patrick Deane

The Convocation Address
Dr. Hamish Robertson

The Conferring of Degrees In-Course

Musical Interlude

The Presentation of the Graduates

The Valedictory Address
Ryan Rogers

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 be recorded, broadcasted live and archived at http://registrar.mcmaster.ca/grad
Follow @McMasterConvo on Twitter, tweet with #MacGrad2017 and try our Snapchat filter!

The President’s academic regalia is a gift of the McMaster University Alumni Association.

The Convocation Music Supervisor.............................................. Arlene Wright (Piano)
Convocation Trumpeters............................................................ Bob Grim and Valerie Cowie
Piper................................................................. Jamie Connolly
Vocalist............................................................. Emily Rebekah Taub

Immediately following Convocation, graduates and their guests are invited for a reception in Hamilton Convention Centre, Wentworth Room C.
THE RITUALS OF CONVOCATION

The processions 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.

To the left of the main podium stands 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.

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.

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. McRimmon
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
1998 – 2007 Melvin M. Hawkriegg
2007 – 2013 Lynton R. Wilson
2013 – Suzanne B. Labarge

PRESIDENTS
1949 – 1961 George P. Gilmour
1961 – 1972 Henry G. Thode
1980 – 1990 Alvin A. Lee
1995 – 2010 Peter J. George
2010 – Patrick Deane

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

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.

Don Bridgman BPE ’78
President, McMaster Alumni Association
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.
PRESENTERS OF DEGREES, DIPLOMAS, AND CERTIFICATES

Dr. Joseph McDermid
Associate Dean (Academic),
Faculty of Engineering

Dr. Ishwar Puri
Dean, Faculty of Engineering

Dr. Michael Thompson
Associate Dean of Graduate Studies
(Engineering)

DOCTOR OF PHILOSOPHY

ELECTRICAL AND COMPUTER ENGINEERING

Narges Arman Fard
Thesis: Localized Feature Selection for Classification

Erkan Baser
Thesis: Multi-Target Multi-Bernoulli Tracking and Joint Multi-target Estimator

Jing Guo
Thesis: Modeling and Design of Inverters using Novel Power Loss Calculation and DC-Link Current/Voltage Ripple Estimation Methods and Bus Bar Analysis

Yiheng Qin
Thesis: Microfabricated pH, Temperature, and Free Chlorine Sensors for Integrated Drinking Water Quality Monitoring systems

Laleh Seyyed-Kalantari
Thesis: Modeling and Adjoint Sensitivity Analysis of General Anisotropic High Frequency Structures

Yingguang Sun
Thesis: Unified Position Sensorless Solution with Wide Speed Range Capabilities for IPM Synchronous Motor Drives

Pouya Taatizadeh
Thesis: On Using Hardware Assertion Checkers for Bit-Flip Detection in Post-Silicon Validation

Michael Wirtzelf
Thesis: Predicting Speech Intelligibility and Quality from Model Auditory Nerve Fiber Mean-Rate and Spike-Timing Activity

Rui Xu
Thesis: Capacity Analysis of Finite State Channels

Nan Zhao
Thesis: Modelling and Design of Electric Machines and Associated Components for More Electric Vehicles

ENGINEERING PHYSICS

K. M. Azizur Rahman
Thesis: Simulation of III-V Nanowires for Infrared Photodetection

Abhishaik Rampal
Thesis: Opto- and Electro-Mechanical Coupling between the Depletion and the Piezoelectric Region of a Gallium Arsenide (GaAs) Micro Torsional Resonator Photodiode

Anthony Tsikouras
Thesis: Development of a Multifocal Confocal Fluorescence Lifetime Imaging Microscope for High-Content Screening Applications

MECHANICAL ENGINEERING

Mohammed Sayed Mohammed Farag

Frederick Jacobus Kirstein
Thesis: Introducing texture into anisotropic VBO to model the deformation of Zirconium alloys

Md Kamrul Islam Russel
Thesis: On Enhancing the Performance of Ion Drag Electrohydrodynamic (EHD) Micropumps

Peiying Jennifer Tsai
Thesis: Tailoring Material Properties by Filler Particle Arrangements

Rong Yang
Thesis: Electrified Vehicle Traction Machine Design With Manufacturing Considerations
MASTER OF SCIENCE

COMPUTER SCIENCE

Curtis Benoit Noel D’Alves
Akhil Krishnan
Tahereh Zahmatkesh

MASTER OF APPLIED SCIENCE

ELECTRICAL AND COMPUTER ENGINEERING

Eric Edwards
David Findlay
Boxiao Han
Yike Li
Tyler Peter Stiene
Larissa Anne Taylor
Paul John Wilson
Dennis Yazhemsky
Ting Yin

ENGINEERING PHYSICS

Zachary Todd Demers

MECHANICAL ENGINEERING

Shubham Banik
Shouvik Ganguly
Trevor Hadden
Akshay Jain
Michael Kasprzak
Junchong Liu
Yicong Liu

SOFTWARE ENGINEERING

Salvatore D’amore
Alexander Meyer Lebel
Rachel Sylvia Mailach
Geneva Marie Smith

MASTER OF ENGINEERING

COMPUTER SCIENCE

Zheng Gu
Salman Khowaja
Xinyuan Niu
Aili Zou

ELECTRICAL AND COMPUTER ENGINEERING

Yen-Ta Andy Li
Saad Malakhail
Arinderpal Singh Matharu
Zahraa Mazin-I-Khalil
Akhil Vij
Filip Zubac

ENGINEERING PHYSICS

Ying Zhao

BACHELOR OF ENGINEERING AND MANAGEMENT

*Derek Adam.................................Mechanical
Albraa Al Nabulsi..............................Software
Salman Alam.....................................Electrical
Jadeesuan Anton.................................Software
Jean Pierre Beuses.............................Mechanical
Jose Pedro Bonicelli Nagaki...............Mechatronics
Matthew Roy Caldwell......................Software
Samuel Alexander Chin-Cheong...........Electrical
Agustin Cosalini.............................Mechanical
Amninder Singh Dhillon...................Electrical
Dominik Piotr Dorosz........................Electrical
Santiago Flores..............................Mechanical
Artur Gaca................................Computer

Colin Gagich.................................Mechatronics
Martin Peter Gagne........................Mechatronics
Arika Ganguli.................................Software
Terry George................................Software
Michael Ryan Giagnolimi...............Electrical
Athanasios Ioannis Gouliaras..........Mechanical
David Michael Gowland...................Mechanical
Thomas Grcievic.........................Engineering Physics
Apoorav Gupta.........................Computer
Matthew Walter Hadden...............Mechanical
Connor Hallet...............................Software
Joshua Maurice Havlin...............Mechatronics
David Michael Hendriks..............Mechanical

Yisroel Zachary Hiller...............Mechatronics
*Owen Huyn.................................Software
Patrick Simon Jakubowski...............Software
Graham Jones.................................Mechanical
Dominik Kaukinen.........................Mechatronics
(Minor in Mathematics)

*Milan Kordic.................................Electrical
*Nawar Kzeer.............................Mechatronics
Spencer Edmund Lee......................Software
Terence Leung.................................Mechanical
Cole Lewis.................................Mechatronics
*Matthew Li.................................Mechanical
Taranjit Singh Litt......................Electrical

* with distinction (achievement of a minimum Grade Point Average of 9.5/12)
Lendl Lobo..........................Engineering Physics
★ Chung-Hin Ma.................................Mechanical
Noshairwan Waseem Maqbool.........Mechanical
★ Gordon Wade Kilgour Marks.........Software
Jordie Mcauley............................Mechanical
Keene Manuel Mendes................Mechanical
Guli Meng....................................................Mechatronics
★ Benjamin Taylor Miethig...............Mechanical
★ Daniel John Mikulic..............Engineering Physics
Rakesh Mistry..............................................Software
★ Kevin Liam Mitchell......................Mechanical
Cyrus Montazemi.............................Mechanical
★ Iris Lok-Yee Ng.............................Software
Albert Vincent Ngu.........................Mechatronics
Alexander John Niedra................Mechanical
★ Colin O'Brien.................................Mechanical
John-Paul Daniel Oskroba.............Mechanical
Isabela Cristina Ozamiz...............Electrical
★ Jesse Kield Pedersen....................Electrical
★ Zhi Ting Qian.................................Software
Daniel David Gerald Roberts........Computer
Ryan Rogers.................................Mechanical
Opeyemi Oluwatosi Salau...............Computer
Andrija Andrew Kresimir Skoko.........Mechanical
Alessandro Peter Sorce...................Mechanical
Joel Harris Squire.........................Mechanical
★ Rohit Subedi.................................Electrical
Michael Szmudrowski.....................Mechanical
Anthony Tam.................................Mechanical
Abdel Rahman Tawakol..................Mechatronics
Peter Johnson Tran.......................Mechatronics
★ Michael David Tucker..............Engineering Physics
David Tweg.................................Mechanical
★ Adam Umanski.........................Mechanical
Zachary Ralph Vanderwel.............Mechanical
Taranveer Virk.........................Software
★ Michael Viveros.........................Software
★ Ryan Arvi Kwong Voojaar..........Electrical
★ Matthew Philip Vukovic...........Engineering Physics
Jesse Walker.................................Mechanical
★ Alfred Bor Yu Wong.............Mechatronics
Luoke Zhang.................................Engineering Physics
Nathan Katsumi Zweep...............Mechanical

BACHELOR OF ENGINEERING AND SOCIETY

Ward Ser Al-Khaldi.......................Electrical
(Minor in Economics)
Neha Baqai.................................Mechanical
Alison Mary Theresa Bayzat.............Electrical
(Minor in Computer Science)
Matthew Liam Dent........................Computer
Thomas Cameron Bray Dunlop..........Mechanical
(Minor in History)
Alexis Goodwin..........................Electrical
(Minor in Business)
Raveena Jain.............................Mechatronics
(Minor in Business)
★ Robert Mario Mastragostino..............Engineering Physics
★ Jose Manuel Mercado Malabe............Mechanical
Mahfuzur Rahman Muhith...............Computer
(Minor in Economics)
Bryan Padilla.............................Engineering Physics
(Minor in Religious Studies)
Kelvyn Vincenzo Panici..............Electrical
(Minor in Business)
Kathleen Agnes Pereira...............Mechanical
(Minor in Business)
★ Derek James Savery.....................Mechatronics
(Minor in Astronomy)
Connor Miroslav Sekac..................Electrical
(Minor in Business)
Magdalene Szkarłat......................Mechanical
Shane Zuchowski.........................Electrical
(Minor in Business)

BACHELOR OF ENGINEERING

Youstina Abdelsayed.....................Electrical
Dharani Pritham Adunuri...............Electrical
★ Jason Amar.................................Engineering Physics
(Minor in Mathematics)
Ahmed Syed Amir............................Mechanical
Saad Amjad............................................................Electrical
Bilal Armode....................................................Software
Sushant Anantharam........................Software
Kyle Francis Ansilie.....................Engineering Physics
Juan David Arango........................Software
★ Arjun Arawindan.........................Electrical and Biomedical
Eric William Archer................ Software
Derek Arts.................................Mechatronics
Stephan Arulhasan........................Software
Abbie May Asmumaa......................Mechanical
Ameetpaul Singh Aulakh.........Electrical and Biomedical
★ Shawn Aultman............................Mechanical
★ Hussain Ali Asghar Babrawala......Mechanical
Horia Radu Baciu........................Electrical
(Minor in Computer Science)
★ Fares Badr.................................Engineering Physics
★ John Barberiz.............................Electrical
Fernando Andre Barrios........Software
(Minor in Economics)
Sam D. Barron.............................Computer
★ Peter Basil Bartosik..........Engineering Physics
Zachary Bazen.........................Software
Jonathan Beadle.........................Software
Andrea Beauchamp.......................Engineering Physics
Jordan Bezugly............................Computer
★ Shivad Bhavsar.........................Electrical & Biomedical
Sahajmeet Bhutta.............................Software
Kevin Blake............................................................Software
Cole Michael Brock Blanchard.........Software
Dawson Benson Bonneville..............Engineering Physics
Jordan Leslie Bowman....................Software
Jeffrey Tyler Braches...............Software
Daniel Brown.................................Mechanical
Matthew Alexander Burger...........Computer
Jeffrey Thomas Buscarino.............Software
Michael Capostagno.....................Electrical
Jason Siu Fung Chan.....................Mechanical
Joshua James Chatten...................Software
Inderpreet Singh Chauhan.............Electrical
Chaoyu Chen.................................Mechanical
★ Diheng Chen.............................Mechatronics
Hui Chen............................................................Software
★ Jingjing Chen.............................Electrical
Zifeng Chen.................................Mechanical
Hirad Cheraghli.........................Electrical
Allison Katherine Chin.............Electrical & Biomedical

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)
Andrew Michael Chin .........................Software
★ Jonathan Peter Edward Chin .......... Mechanical
Afrika Chowdhury ......................... Electrical
Timothy Chung ........................... Mechanical
Yusung Chu .....................................Mechanical
Martin Neil Conte ......................... Engineering Physics
Warren Corbeil .............................Software
Emilie France-Leclerc Corcoran ....... Electrical and Biomedical
★ Jordan Bailey Cowan ............................Electrical and Biomedical
Conor Paul Crump ..........................Mechanical
Peter Ronald Cubberley .....................Mechanical
Michele D’Mello ...............................Electrical and Biomedical
★ Gabriel Jordan Dalimonte .................Software
Luka Damjanovic ......................... Electrical
★ Kevin Dang .................................Mechatronics
Suadpi D............................Electrical
Raul Davila Aquije ....................... Mechanical
Chad Dominic Miles Davis .......... Engineering Physics
Gregory Leon David De Launay .... Engineering Physics
Tyler Jordan De Souza .................... Electrical
Sinjim James Dees ..........................Electrical
Spencer Russell Deevy .....................Software
Tyler Gregory Delaat .......................Computer
★ Roxanna Delima .............................Engineering Physics
Karen Stacy Desa ............................Software
Elie Shmuel Krett Deutsh .................Electrical
★ Kevin James Devine .......................Mechanical
Domenic Dipasquale ...................... Software
Kushagra Dixit ...............................Mechanical
Nolan Peter Driessen ......................Software
Mykhaylo Dubinet ....................Mechanical
Khalid EL-Ghawanmeh .....................Mechanical
Eric Andrew Eilevich .......................Electrical
★ Rotimi Adegbuyi Fadiya .................Electrical
★ Xing Fang .................................Mechanical
Bryalien Fernandes ....................... Electrical
Nicholas Fournier .........................Mechatronics
★ Cristian Frincu ......................... Mechatronics
Yan Fu .........................................Electrical
Matthew Joseph Gabriele .................Computer
Sadisha Galappatti ......................Software
Ahmed Ganzory .............................Engineering Physics
Yuan Gao ....................................Mechanical
Benjamin Robert Gardner .................Software
★ Jacob Jeffrey Gareau .......................Software
★ Devon McGregor Gasparotto ..........Software
Patrick Robert Gauthier .................Mechanical
Daniel Geirsson ............................Mechanical
David Geris .....................................Mechatronics
Elyas Ghulami ..............................Computer
Alexandru Graciov .........................Software
Ryan Grady .................................Software
Jesse Grasso .................................Electrical
★ Kai James Groves .........................Engineering Physics
★ Shaoying Gu ...............................Mechanical
Jeffrey Fraser Guernsey ................. Mechatronics
Alexander Perez Guerrero ...............Software
(Minor in Business)
★ Mustafa Haddara .........................Software
Hamza Hamid ................................Computer
Yunwei Hao .................................. Electrical
Stephanie Anne Hefferman ..............Mechanical
Muhammad Hesam ................................Software
Chun-Yin Justin Ho ...................... Software
★ Peter Hoang ...............................Software
Jenell Marie Hogg ............................Software
Neil Hsih .....................................Mechatronics
Xinge Hu ........................................Mechanical
Chongming Huang ........................ Computer
Anas Hussein ...............................Electrical
Nicole Hutchinson .........................Mechanical
Dylan Michael Hvilivitzky ..........Mechanical & Biomedical
Amr Ehab Youssry Mohamed Ibrahim ....Engineering Physics
Behram Irani ................................Software
Alexander Jackson .........................Software
Nikita Jagora ...............................Software
Connor Christopher Jakes ...............Software
(Minor in Business)
Dimitrije Jankovic .......................Electrical & Biomedical
★ Gavin Murray Johnson .................Software
Benjamin James Johnston .................Mechanical
Doyi Joo .........................................Mechanical
Martha Kafuko ................................Mechanical
Rafe Kamal ..................................Mechanical
★ Ashlin Kanawaty .........................Mechatronics
★ Justin Eric Kapinski ......................Software
Satchyta Karaisingham .....................Mechanical
Marjan Karami ................................Electrical
Katharine Winona Keskikyla ..........Mechatronics
Muhammad Aashir Khan .................Electrical
Muhammad Salman Khan .....................Electrical
Zaeen Shahid Kibria .......................Computer
Jonathan Klawunn .........................Mechatronics
Joshua Thomas Allen Kneller ..........Engineering Physics
Lazar Kojovic ...............................Engineering Physics
Andrew James Kraus .....................Mechanical
Martin Casimir Kujawinski ............Software
Sarah Kula .....................................Electrical & Biomedical
Justin Kwan .................................Electrical
Nicholas David Lago .......................Software
Edmund Gan Hoon Lam .....................Electrical
★ Alex Lao .....................................Computer
★ Liam Lawrence .........................Engineering Physics
Anthony Le ....................................Electrical
★ Peggy Cam Nhi Le .........................Software
Eric Le Fort .................................Software
Sebastian Lebiedzinski ....................Mechanical
Jonathan Lee ...............................Electrical and Biomedical
Johnathan Evan Leroux ....................Mechatronics
★ Charlotte Lewis .........................Electrical and Biomedical
Chao Li .........................................Mechatronics
Grace You Yang Li .........................Electrical
Guannan Li ....................................Mechanical
Jia Wei Li ........................................Mechanical
Qiushuang Li ...............................Mechatronics
Tim Ting-Dar Li .............................Software
Woyuan Li ....................................Mechanical
★ Yue Li .........................................Electrical
★ Zhuanan Li .................................Electrical
★ Kitty Liang .................................Electrical
Xue Lin .........................................Software
Zhiuang Lin .................................Mechanical
Shuang Liu ....................................Electrical
★ Shuyu Liu .................................Electrical
(Minor in Business)
Xinghi Liu .....................................Mechatronics
Aaran Logeswaran .........................Computer
Nicholas Joshua Loomes .................Mechanical
Zhaoyang Lu .................................Electrical
★ Khash Lu .....................................Software
Jili Ma ...........................................Mechanical
Yitian Ma .......................................Mechatronics
Mario Jorge Machado ....................Software
Neil Alexandre MacPhee .................Electrical & Biomedical
★ Anirudh Madan ...........................Mechanical
Matthew Benjamin Magee .................Mechanical
Moeenqaisar Mamaparo .................Computer
★ Yiming Mao ..................................Mechanical
Kevin Christopher Marinoff ..........Software
★ Vincent Marois .............................Mechatronics
★ Prateek Mathur .............................Electrical and Biomedical
★ Dylan James McIntyre .................Software
Ryan McLean ...............................Engineering Physics
Ziyad Mekhemer .........................Electrical
★ Guy Meyer ..................................Mechatronics
★ Thomas Jeffrey Milliman .................Mechanical
★ Michael Jude Miranda ....................Electrical
Vishad Mishra ...............................Computer
Aiman Hafiz Mohd Saleh .................Mechanical
Ho Cheung Jonathan Mok ..................Mechanical
Maxwell McNeil Moore ....................Software
★ Eric Moraitis ...............................Engineering Physics
Katherine Morrow .........................Mechanical
★ Shandelle Murray .........................Software
Melvyn Naiken .............................Mechanical
Zair Syed Ahmad Naim .....................Electrical & Biomedical
★ Ahmad Najam .........................Mechanical
★ Ryan Kyungmin Nam .....................Mechanical
Geeta Prasanna Namuduri .............Electrical and Biomedical
Omar Nassif ...............................Electrical & Biomedical

★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)
Mohammad Usman Naveed ..................Software
Tony Ngo ...............................................Computer
★ Jimmy Trieuho Nguyen ..........Electrical & Biomedical
Thanh Ngoc Doan Nguyen .................Computer
Yankees Hoang Nghiem Nguyen ..........Mechanical
Mark Nolle .....................................Electrical
Alexander Ngyard ..............Mechanical
★ Alyssa Jade Orkin-Fenster ............Software
Cameron Oud ...........................................Computer
★ Petro Ion Palcu .........................Electrical
Garrett Palini .....................................Electrical & Biomedical
★ Spencer James Park ...............................Software
Nirali Patel ............................................Computer
Vaishnavi Amit Patel .....................Mechatronics
Aveline Hazel Pearson ...............Electrical
Ming Pei ...................................................Mechanical
★ Thomas Owen Jai Ich Phan ................Computer
★ David Nicholas Philipott ....Engineering Physics
★ Maxim Podzoubnyi ....................Electrical
James Piero Prieto ...............................Software
Allan Jacob Prior .........................Mechatronics
Khaled Nahed Oshawi ..........Mechanical
★ Andy Quach ...........................................Software
Muhammad Hassan Qureshi ..........Electrical
Joshua Johnathan James Racette ....Engineering Physics
Jarushaan Rajakumar .....................Software
Ashish Abraham Rajimon ..........Electrical & Biomedical
Alejandro Ramos ...................Electrical & Biomedical
Lovepreet Randhawa ...................Computer
Sagi Rashish ............................................Computer
Athidya Raveenthanehru .............Mechatronics
Pranav Rawal .....................................Electrical & Biomedical
Ali Raza ...................................................Mechanical
★ Hossein Rejali .....................................Electrical & Biomedical
★ Christina Lynn Riczu ....Engineering and Biomedical
Kevin Iskandar Rigg ..........................Software
★ Kerianne Rikley ....................Mechatronics
Ali Rik ...................................................Electrical
Hasan Rizvi ............................Electrical & Biomedical
Adam Rocque .................................Computer
★ Joanna Rutkowski ....Electrical and Biomedical
Tony Sader .....................................Mechatronics
Ali Saharkhiz .....................................Electrical
Sadman Sakib ...........................................Computer
★ Michael Salib ....................................Mechanical
Mohamad Salih .....................................Electrical
Zaid Mohanad Sama’an ..........Mechanical
Brody Thomas Sanderson .............Mechatronics
Ajay Pratap Singh Sandhu ............Electrical
Shruti Santikary .................Electrical & Biomedical
Meshal Sarfraz .................................Computer
★ Benjamin Ryken Scheffel ....Engineering Physics
Jordan Seeker .................................Mechanical
Yarden Segal ..............................Computer
Ernest Selman ..............................Mechatronics
Usama Shafiq ............................................Electrical
★ Akash Shah ..............................Engineering Physics
Mohammed Aathiq Shahul Hameed ....Engineering Physics
Anmol Sharma .....................................Electrical & Biomedical
Radhika Rani Sharma ....................Software
Shweta Sharma .................................Computer
Elijah Seth Sherman ...............Mechanical
Jordan Daniel Sherman .............Computer
Osama Rafi Siddique .................Mechanical
Lucas Albert Simpson .....................Computer
Avery Alexander Singh .............Electrical & Biomedical
Gurankash Singh .............................Software
Harshi Singh .........................................Mechanical
Jagtar Singh ............................Electrical & Biomedical
Mathyvarthanathan Sivanathan ....Software
(Minor in Business)
Drew Harrison Smith .....................Mechanical
Joel Michael Smith ....Engineering Physics
Lin Song .............................................Mechanical
★ Yuzhe Song .....................Mechatronics
Blair Timothy Sonnenburg ................Mechanical
Eduardo Alberto Soto .....................Software
★ Nathan Paul Soucier ....Electrical and Biomedical
Umang Sreekumar .....................Electrical & Biomedical
Vizaghan Srikandarajah .............Mechanical
Parathan Srikantha ...................Computer
Shane Stark .....................................Mechatronics
Trent Skylar Stevenson ...............Mechatronics
Kuo-Yao Su .....................................Mechatronics
Jimmy Sun ...........................................Computer
Fahd Salahuddin Syed ...............Computer
Michael Taka ...........................Electrical and Biomedical
Michael Tang .............................Electrical and Biomedical
Annas Bin Tariq ............................Electrical & Biomedical
Meshaa Tariq ...............................Mechanical
Fahad Tejani .....................................Mechanical
Manoshankar Thayanathan ..........Mechatronics
Hanjie Tian ............................................Mechanical
Titus Constantin Timotin ..........Mechanical
Joshua David Ting .............................Mechatronics
Gae Tshimologo .............................Mechatronics
Omorui Henry Udogie .................Electrical
Chelsea Urquico .............Electrical and Biomedical
★ Robert Angelo Faronilo Valencia ....Electrical and Biomedical
Hayden Christopher Vanvark ....Software
Simon Vergara .................................Software
★ Winston James Vernon .....................Electrical
★ Milos Vignjevic ....................Engineering Physics
★ Ryan James Vise .....................................Electrical & Biomedical
Joshua Peter Luinstra Voskamp ....................Software
Kristina Vucenic .................................Electrical
Chenwei Wang .....................................Software
★ Jiankun Wang ...................Electrical & Biomedical
Junwei Wang ..............................Mechatronics
Kai Di Wang .........................................Electrical
Mengzhen Wang .....................Electrical & Biomedical
Peichuan Wang .....................Electrical & Biomedical
Tong Wang ...........................................Computer
★ Wu Rong Weng ....................Electrical & Biomedical
★ Gerrit Anthony Westenberg ....Engineering Physics
Marshall Hayden Wice ....................Software
David Wilcock .................................Mechatronics
Daniel Caleb Widing ..........Engineering Physics
Karlee Melanie Winter .................Mechanical
Matthew Alexander Woods ............Engineering Physics
★ Miaowen Wu .........................Mechanical
Siyu Wu ............................................Mechanical
★ Yu Heng Wu ...............................Electrical
Zhaoqun Wu ...............................Mechatronics
Andrew Wynn-Williams .................Electrical
Hanyi Xi ...........................................Electrical
Yinan Xiao ...........................................Electrical
★ Clare Xu .....................................Electrical and Biomedical
Sicheng Xu ...............................Electrical & Biomedical
Weiwei Xu ...........................................Mechanical
Wentao Xu .........................................Electrical
Fang Wei Xue ...............................Mechanical
Arkadi Yakushev .........................Computer
Yunan Yan ...........................................Software
Yao Wen Yu ...........................................Computer
★ Ying Yu ............................................Mechanical
Jacky Yuan .........................................Mechanical
Martin Zadarko .........................Mechanical
★ Kaijie Zhang ....Electrical and Biomedical
Kan Zhang .........................................Mechanical
Peng Zheng ...........................................Electrical
Qiuyue Zhang .................................Electrical & Biomedical
Shengxue Zhang .........................Electrical & Biomedical
★ Weixin Zhang .................................Mechatronics
★ Sheng Zhao .................................Mechanical
Wenjie Zhao .....................Electrical and Biomedical
Yang Zhao .........................Electrical & Biomedical
Yunpeng Zhao ..................Software
Dongtian Zheng ......................Software
Yangjing Zhou .................................Mechatronics
Zi Ang Zhou ..........................................Mechatronics
BACHELOR OF APPLIED SCIENCE

Rajat Arora ......................... Computer Science
★ Dylan Aspden ...................... Computer Science
Mohammed Aamir Badruddin .... Computer Science
Can Birol ............................ Computer Science
★ Erica Cheyne ...................... Computer Science (Minor in Mathematics)
Michael Currie ...................... Computer Science
Curtis Benoit Noel D’Alves .... Computer Science
Kurt Da Costa ...................... Computer Science (Minor in Information Systems)
Derek James Dagworthy .... Business Informatics
★ Ryan Clarke Davis ............... Computer Science
Quoc-Nam Do ....................... Business Informatics
★ Brendan Duke ..................... Computer Science
Dragan Erak ......................... Business Informatics
Micaela Evangelista Estabillo .... Computer Science
★ Su Gao ............................. Computer Science
★ Yuan Gao ........................... Computer Science
Jasman Gill .......................... Computer Science
Anagh Goswami .................... Business Informatics
Philip Habib ....................... Computer Science (Minor in Mathematics)
★ Weilin Hu ........................... Computer Science
Zayan Imtiaz ....................... Computer Science (Minor in Economics)
Ananthan Paramanathan Kanagasabai ............. Computer Science
(Minor in Geography and Earth Sciences)
★ Karl Knopf ......................... Computer Science (Minor in Mathematics)
Andrew Kohnen .................... Computer Science
Ryan Jerry Lambert ............... Computer Science
James Ren Hou Lee ............... Computer Science
Yunfeng Li ......................... Computer Science
Marina Mansour .................... Business Informatics
Abhinav Narayanan ............. Business Informatics
Meet Pandya ....................... Business Informatics
Djordje Petrovic .................... Computer Science
★ Don Pham .......................... Computer Science
David Pitkanen .................... Computer Science
★ George Plukov .................... Computer Science
MD Fahim Rashad ................ Computer Science
Victor Peter Reginato .......... Computer Science (Minor in Business)
Nathan Aaron Roberts .......... Business Informatics
Danielle Christina Shwed ........ Computer Science
★ Simarpreet Singh ............... Computer Science
Bok-Man Victor Siu ............... Computer Science (Minor in Mathematics)
Jinyue Song ....................... Computer Science (Minor in Business)
Theodore Stone ................... Computer Science
Victor Tang ....................... Computer Science
Tai Rui Tong ...................... Computer Science
Yuriy Toporovskyy ............... Computer Science
Jesse Truong ....................... Computer Science
Birutheia Ummahesam .......... Computer Science
Maxim Vasiliev .................... Computer Science
Jordan Douglas Viveiros .... Computer Science (Minor in Economics)
Xiaoying Wang .................... Computer Science (Minor in Business)
Carson White ..................... Computer Science
Jia Liang Xu ....................... Computer Science (Minor in Business)
He Jie Yan ......................... Business Informatics
Geoffrey Chun Hin Yeung .... Business Informatics
Mo Yu .............................. Computer Science
★ with distinction (achievement of a minimum Grade Point Average of 9.5/12)

Names of graduands listed in this program are those recommended to Senate as of June 7, 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 these individuals.
UNDERGRADUATE AWARD RECIPIENTS
(2016-2017 SESSION)

MEDALS

THE GOVERNOR GENERAL’S ACADEMIC MEDAL
Alexander Dhaliwal Emily Farquharson

THE E. H. AMBROSE GOLD MEDAL
Cassidy Davis

THE BASU MEDAL
Tyler McEvoy

THE BINKLEY MEDAL
Karl Knopf

THE CANADIAN SOCIETY FOR MECHANICAL ENGINEERING MEDAL
Benjamin Miettig

THE DEAN’S MEDAL FOR EXCELLENCE IN THE HUMANITIES
Erika Ko Maureen Gustafson
Kelly Sovereign Konstantinos Zafiropoulos
Daryl Watson

THE J. E. L. GRAHAM MEDAL
Sandra Makino

THE AMELIA HALL GOLD MEDAL
Troy Abrams

THE HUMANITIES MEDALS FOR SPECIAL ACHIEVEMENT
Ryan Dorsman Jason Lau
Nimra Khan

THE HURD MEDAL
Elaine Guo

THE JENSEN MEDAL
Wei Sheng

THE GERALD L. KEECH MEDAL
Karl Knopf

THE MAPS GOLD MEDAL
Sandra Makino

THE R. C. McIVOR MEDAL
Alison Imrie

THE ONTARIO PROFESSIONAL ENGINEERS FOUNDATION FOR EDUCATION GOLD MEDAL
Emily Farquharson

TROPHIES AND MERIT AWARDS

THE BURKE MEMORIAL RING
Maryam Vasaghi-Shanjani

THE CSEP/SCPE UNDERGRADUATE STUDENT AWARD
Alexander Mannarino

THE IROQUOIS TROPHY
Ying Yu

THE SOCIETY OF CHEMICAL INDUSTRY MERIT AWARD
Luke Boivin Yi Liu
Scott Laengert

SCHOLARSHIPS AND PRIZES

THE ANTHROPOLOGY PRIZE
Jan Plonka

THE WILLIAM AND LIDA BARNES MEMORIAL PRIZE IN HISTORY
Simon Vacca

THE REV. ALLISON M. BARRETT SCHOLARSHIP
Alison Imrie Shawnee Matinnia

THE MARION BATES BOOK PRIZE
Adam Blackburn

THE ABE BLACK MEMORIAL PRIZES
Heather Oprey Amanda Venier
Ieta Shams

THE CFUW-HAMILTON MEMORIAL PRIZE IN POLITICAL SCIENCE
Gabriela Niemczyk

THE DR. RUDOLF DE BUDA SCHOLARSHIP
Zhuanan Li Robert Valencia

THE LAURA DODSON PRIZE
Mia Kibel

THE FRANK E. JONES PRIZE
Seo Park

THE KARL KINANEN ALUMNI PRIZE IN GERONTOLOGY
Jenna Gaskin Hillary Quantrill

THE KINESIOLOGY PRIZES
Stephen Toeppe Mai Wageh

THE RUTH LANDES PRIZE
Maureen Gustafson

THE FELIKS LITKOWSKI PRIZE IN POLITICAL SCIENCE
Sneha Moraes

THE BERT MacKINNON MEMORIAL SCHOLARSHIP
Hannah Roche

THE AGNES AND JOHN MacNEILL MEMORIAL PRIZE
Adam Blackburn

THE CATHERINE MacNEILL PRIZE
Mimi Deng

THE A.G. McKAY PRIZE IN CLASSICAL STUDIES
Tina Kocic

THE WALTER SCOTT McLAY SCHOLARSHIP
Daryl Watson

THE McMASTER UNIVERSITY FUTURES FUND GRADUAND SCHOLARSHIP
Kevin Maynard

THE McMASTER NURSING ALUMNI MEMORIAL PRIZE
Anmolpreet Kaur

THE AUDREY EVELYN MEPHAM AWARD
Keerthana Kirichandran Sara Pourkhatai
Natalie Meisenburg

THE MIDDLETON/WALKER PRIZE IN SEDIMENTARY GEOLOGY
Erin Gibbons

THE P. L. NEWBIGGING PRIZE
Madison Krofchick
UNDERGRADUATE AWARD RECIPIENTS (CONTINUED …)

THE KIM AND TIM NOLAN SCHOLARSHIP
Meagan Walker

THE ONTARIO ASSOCIATION OF SOCIAL WORKERS PRIZES
Christina Lee Katelyn Rush

THE HARRY L. PENNY PRIZE
Kartika Mehan

THE PIONEER ENERGY LP GERONTOLOGY PRIZE
Natalie Charette Angela Marcin
Jenna Gaskin Hillary Quantrill
Lucas Keesmaat Gia Tran

THE PIONEER ENERGY LP PRIZE IN NURSING
Elizabeth Russell Alyssa Te

THE POLITICAL SCIENCE HONOURS ESSAY PRIZE
Adam Chiaravalle

THE LLOYD REEDS PRIZE
Natalie Armstrong Sarah-Marie Hugh Erin Gibbons

THE RELIGIOUS STUDIES PRIZE
Shawnee Matinnia

THE ABRAHAM ISAAC ROSENBERG MEMORIAL PRIZE
Serena Salvati

THE GRACE SENRA-FONTES MEMORIAL PRIZE
Nandini Nandeesha

THE SHELL CANADA PRIZES IN ENGINEERING AND MANAGEMENT
Julie Arrey Benjamin Miethig
Ryan LaRue

THE RICHARD SLOBODIN PRIZE
Jason Lau

THE SOCIOLOGY PRIZE
Sandra Makino Laura Stothart

THE JOHN H. TRUEMAN PRIZE
Konstantinos Zafridis

MBA MEDALS

D.M. (MIKE) HEDDEN GOLD MEDAL:
Lauren Bentham

THE R.J. SPENCE MEMORIAL MEDAL:
Kevin Burke

THE LITVAK MEDAL IN MARKETING:
Leanne Murray

THE BASU MEDAL:
Lina Ma

BEST DAY EVER!
#MacGrad2017
HONORARY DEGREES

Faculty of Health Sciences

Peter George, Doctor of Laws

On June 30th, 2010, Peter George’s remarkable 45-year tenure at McMaster University came to a close as he served his 5,464th and final day as the University’s President & Vice-Chancellor. During his three terms at the helm of the University, he created a legacy that continues to have a profound influence on McMaster, its communities, and the learning and research environment in Canada. George unified the University’s research and teaching goals by setting a mission for McMaster that put the student at the centre of the research-intensive university. He set the agenda for the Centre for Leadership in Learning (now the MacPherson Institute) and extended McMaster’s signature learning approach, inquiry, into every faculty.

During George’s presidential terms, McMaster’s total research funding grew more than 530%, from less than $80 million to more than $425 million. The number of endowed research chairs grew from zero to 75 on the strength of George’s personal commitment to building the University’s research infrastructure. The University attracted landmark gifts to research, opened multidisciplinary research institutes and sparked the rise of international-calibre research enterprises in microscopy, nanotechnology, stem cells and manufacturing, to name just four.

The relationships between the University and its surrounding communities, both near and far, were among George’s top priorities. Locally, he led the moves to partner with Mohawk College in the McMaster-Mohawk Institute of Applied Health Sciences and to establish satellite medical schools in Niagara with Brock University and in Waterloo with the University of Waterloo. Internationally, George spearheaded a global vision that produced educational agreements with institutions in 72 different countries. McMaster also became the first North American host site for the United Nations University (UNU), hosting the UNU / International Network on Water, Environment and Health.

In his first week as president, George initiated a strategic planning and visioning process that, through subsequent revisions, guided McMaster University in enhancing its capacity and creating an increasingly positive environment for learning, research and community service. The milestones in that progress range from the physical – such as the opening of the McMaster University Student Centre (MUSC), a project George described as a “moral imperative” when he took office – to the visual with the rebranding of the University in 1998. George’s leadership ushered in an unprecedented construction boom that remade the campus with new residences, an athletic centre and stadium, a new front entrance, expanded and updated facilities in every faculty, and the Michael G. DeGroote Centre for Learning and Discovery – McMaster’s largest building project since the 1960’s.

George’s contributions to learning, research, McMaster and the wider community have been recognized with a diverse range of awards and honours. Inducted into the Hamilton Gallery of Distinction, he received the Hamilton Community Spirit Award, the Negev Dinner honour and honorary professorships from the University of Science and Technology Beijing and the Dongguan University of Technology. He was also member of both the Order of Canada and the Order of Ontario. George was a holder of five honorary degrees from various institutions before the University conferred upon him the degree Doctor of Laws, honoris causa, in a private ceremony earlier this year.

Faculty of Health Sciences

Abraham Verghese, Doctor of Science

Abraham Verghese is a physician, author, educator and patient advocate. He is the Linda R. Meier and Joan F. Lane Provostial Professor and Vice Chair for the Theory and Practice of Medicine at Stanford University. He served as Director of the residency training program in internal medicine and established the Program in Bedside Medicine. Verghese is a Fellow of the Association of American Physicians, an elected member of the Institute of Medicine of the National Academies and the Royal College of Physicians of Canada. He received the John P. McGovern Medal from the Osler Society, the Nicholas Davies Humanities Award from the American College of Physicians, the National Humanities Medal and numerous teaching awards.

Verghese’s first book, My Own Country: A Doctor's Story, was a finalist for the National Book Critics Circle Award for General Nonfiction. The Tennis Partner, also non-fiction, was a New York Times “Notable Book.” His first novel, Cutting for Stone, was on the New York Times bestseller list for two years. He has published more than five dozen articles in widely read publications including The Atlantic, New York Times Magazine, the Wall Street Journal, the New Yorker, Life Magazine, Forbes and Sports Illustrated. In 2011, Verghese delivered the TED Talk, “A Doctor’s Touch,” making the compelling argument that modern medical technology is not a substitute for traditional physician-patient interaction. The talk has been viewed more than 1.3 million times.
François Bréchignac, Doctor of Science

François Bréchignac is a globally respected radioecologist who is spearheading efforts to develop a conceptual framework for assessing impacts of low-dose radiation exposures on ecosystems. He is Deputy Scientific Director of the Institut de Radioprotection et de Sûreté Nucléaire at the Centre d’Études de Cadarache and also a Member of the Scientific Board of the Alliance for the Environment, a Permanent Member of the Scientific Committees of the Doctoral School in Environmental Sciences and a Member of the Research Federation on Natural and Industrial Risk. He is also an expert evaluator on issues related to radioecology and the environment for the European Commission and other institutions.

Bréchignac was Head of the European Research and Technology Program in Space Biotechnology for the European Space Agency and is the President of the International Union of Radioecology and the Chair of that organization’s Ecosystem Approach Task Force. He is a Member of the NEA/OECD-EGIS Expert Group on the Implications of Radiation Protection Science as well as a Member of the NATO Nuclear Expert Group of the Science for Peace Program. The author of approximately 150 publications, including more than 70 peer-reviewed research articles, Bréchignac has received the prestigious support of the Alexander von Humboldt Foundation and was granted the N.V. Timofeev-Resovsky “biosphere and humanity” medal from the radiology branch of the Russian Academy of sciences. He was a co-founding member of the environment protection committee of ICRP and worked as associate editor of the Journal of Environmental Radioactivity. Bréchignac served as President of the International Congress on Radioecology and Environmental Radioactivity (ICRER) held in 2011 at McMaster University.

Sarah Polley, Doctor of Letters

Sarah Polley is an actor, director, writer, producer and activist who rose to prominence in her Gemini-nominated role of Olivia Novak in the CBC drama Street Legal. She had previously achieved big-screen success with roles in films including Norman Jewison’s classic Moonstruck. On stage, she won a Dora Mavor Moore Award for Best Actress in a Musical and, at the Stratford Festival, she has brought an impressive list of celebrated roles to life including Maria in the Sound of Music and Maggie in Cat on a Hot Tin Roof. An accomplished musical performer, Dale created the Cynthia Dale Scholarship for the Arts at Mount Allison University and supports a number of not-for-profit organizations and literacy programs.

Peter Mansbridge is the Chief Correspondent of CBC News, Anchor of The National as well as all CBC News specials. He hosts Mansbridge: One on One, a series of in-depth interviews with leading newsmakers, and has interviewed everyone from Margaret Thatcher to Ringo Starr and from Bill Gates to Desmond Tutu. He is the only Canadian journalist to interview President Barack Obama. The author of the bestselling book Peter Mansbridge One on One: Favourite Conversations and the Stories Behind Them, Mansbridge has earned more than a dozen national awards for broadcast journalism.

He is serving his second term as Chancellor of Mount Allison University and is an Officer of the Order of Canada.

Cynthia Dale performed on stage and television as a child and rose to prominence with her Gemini-nominated role as Olivia Novak in the CBC drama Street Legal. She had previously achieved big-screen success with roles in films including Norman Jewison’s classic Moonstruck. On stage, she won a Dora Mavor Moore Award for Best Actress in a Musical and, at the Stratford Festival, she has brought an impressive list of celebrated roles to life including Maria in the Sound of Music and Maggie in Cat on a Hot Tin Roof. An accomplished musical performer, Dale created the Cynthia Dale Scholarship for the Arts at Mount Allison University and supports a number of not-for-profit organizations and literacy programs.

Polley wrote and directed the feature film Away from Her, for which she received an Academy Award nomination for Best Adapted Screenplay. In total, the film was nominated for more than 100 awards and won more than 60, including the Genie Award for Best Achievement in Directing, making Polley the first woman to win that award. She also wrote and directed the critically acclaimed feature Take This Waltz and the intensely personal documentary Stories We Tell. Among the many awards that film earned were Best Documentary Screenplay from the Writers Guild of America and Best Non-Fiction Film from the New York Film Critics Circle Awards. She is currently the Writer-Producer of the CBC/Netflix mini-series Alias Grace.

Polley is active in a number of social issues and was part of David Miller’s Transition Advisory Team when he became Mayor of Toronto. She has worked as a volunteer for the Ontario Coalition Against Poverty and the Canadian Peace Alliance. Polley is both an Officer of the Order of Canada and a recipient of the National Arts Centre Award.
HONORARY DEGREES (CONTINUED…)

Faculty of Social Sciences (Morning Ceremony)

Michael Hayes, Doctor of Laws

Michael Hayes is one of Canada's most influential scholars and advocates in the field of population health and health geography. He is a three-time McMaster graduate whose first academic post was at Simon Fraser University, where he worked for 22 years. There he served as Associate Dean of Research and led the process of founding and building the Faculty of Health Sciences. In 2010, he moved to the University of Victoria where he has just completed his term as the inaugural Director of Health Research and Education.

Hayes produces research that merges rigorous health scholarship with effective policy engagement and, as a result, he helped create the field of population health in Canada. He has established that social inequalities play a profound role in determining long-term mental and physical health. He is a pioneer who helped bring this perspective into the public policy conversation and his approach is now entrenched through initiatives including the Institute of Population and Public Health. Hayes has served on important health-related panels such as the BC Provincial Medical Health Officer's Advisory Committee, the Federal/Provincial/Territorial Advisory Committee on Population Health and the Public Health Promotion Expert Advising Group of the Public Health Agency of Canada.

Hayes was the inaugural North American Editor of the scholarly journal Health & Place. A Member of the McMaster Alumni Gallery since 2011, he has also been a Distinguished Visitor for the Government of Canada's Cultural Personalities Exchange Program.

Faculty of Social Sciences (Afternoon Ceremony)

Joseph. S. Mancinelli, Doctor of Laws

Joseph Mancinelli is International Vice President and Regional Manager for Central and Eastern Canada for the Laborers' International Union of North America (LiUNA). He is also Chair of the Labourer's Pension Fund of Central and Eastern Canada, President of the LiUNA Ontario District Council and President of both the LiUNA Group Limited, which manages LiUNA entities including Liuna Station and Liuna Gardens and the LiUNA Local 837 Health Property (Hamilton) Corporation which owns long-term care facilities.

Born and raised in Hamilton, Mr. Mancinelli is also a community builder. He has served on the Board of Hamilton Health Sciences, Chaired the Bay Area Health Trust, served on the St. Joseph's Healthcare Campaign Cabinet, started a scholarship program for children of LiUNA members and served as a Hamilton-Wentworth Separate School Board Trustee. At McMaster, he helped establish the Enrico Mancinelli Professorship in Global Labour Issues and the Chair in Heavy Construction. Mr. Mancinelli and LiUNA have been trailblazers in renewing downtown Hamilton through award-winning projects like the refurbishment of the James Street North train station and the restoration of the Lister Block. Their most recent initiative is a Student Housing development adjacent to the Lister Block and the revitalization of the north-east corner of King-King William.

Mr. Mancinelli, a talented artist, has also been involved with numerous local arts organizations. Named one of the ten most influential people in Hamilton by Urbanicity Magazine, Joe has recently been inducted into the Hamilton Gallery of Distinction, he is the recipient of the Paul Harris Fellow from the Rotary Club and the David Crombie Award from the Canadian Urban Institute, the Business Excellence Award from the Canadian and Italian Business and Professional Association, has a star on the Italian Walk of Fame in Toronto, is the recipient of the Mohawk College Award of Merit, the Italian-Canadian Citizen of the Year award and the Queen's Golden Jubilee Medal to name a few.

Faculty of Science (Morning Ceremony)

Daphne Maurer, Doctor of Science

Daphne Maurer is one of McMaster's Distinguished University Professors and has been an Emeritus Professor since 2013.

Throughout her career Maurer has studied how perception develops and matures, concentrating on the visual system and beginning at birth. Her work has reshaped our understanding of the infant's sensory world and of development, and has improved clinical care for children with eye problems. It has led to more than 200 scientific publications and a book, The World of the Newborn, co-authored with Charles Maurer, which won the Book Award of the American Psychological Association.

Maurer's research has been so unusual and significant that she has had continuous funding from Canadian granting agencies for more than 40 years, plus 14 years of funding in Canada from the U.S. National Institutes of Health.

Maurer is a Fellow of the Royal Society of Canada and of the Association for Psychological Science. In 2004, the Centre for Excellence for Early Childhood Development named her Researcher of the Year. She has received the McMaster University Faculty Association's Award for Outstanding Service and the David O. Hebb Distinguished Contribution Award from the Canadian Society for Brain, Behaviour and Cognitive Science.

Faculty of Science (Afternoon Ceremony)

Bernhard Banaschewski, Doctor of Science

Bernhard Banaschewski joined McMaster University's faculty in 1955, becoming the McKay Professor in Mathematics in 1964 and emeritus McKay Professor in 1991. A Fellow of the Royal Society of Canada, Banaschewski is acknowledged as a master of the conceptual method of doing and presenting mathematical work and his work has influenced subjects including topology, category theory, order, mathematical logic and foundations and algebra.

Banaschewski has been both Chairman of the Grant Selection Committee for Pure and Applied Mathematics and a Member of the Committee for International Scientific Exchanges for the National Research Council of Canada. He served on the Selection Panel for the Steacie Prize and was Group Chairman for the NSERC Committee on Grants and Scholarships. He also served as Vice-President of the Canadian Mathematical Society. Banaschewski worked for 22 years on the Editorial Board of Topology and Its Applications and continues to serve an ongoing and even longer term on the Board of Quaestiones Mathematicae and of Applied Categorical Structures. He was Associate Editor of the Canadian Journal of Mathematics for a decade. Banaschewski is an Honorary Member of the South African Mathematical Society and he has been recognized by the University of Cape Town with an honorary degree.
Michael Pley, Doctor of Science

Michael Pley is a McMaster alumnus who joined the aerospace company COM DEV International shortly after graduating. More than 80 percent of all communications satellites ever launched and many international space science missions have had COM DEV technology on board. Until his retirement in 2016, Pley guided the company from senior positions as Division President, Chief Operating Officer and Chief Executive Officer. Under his leadership, the company earned the Waterloo Junior Achievement Business of the Year Award, the Ontario Chamber of Commerce Large Business Award for Business Excellence, and the Waterloo Area’s Top Employers Award six times in a row.

Pley has been Chair of the Board for exactEarth Ltd and is currently on the Board of Directors of Waterloo North Hydro. He is Chair of the Advisory Board to McMaster’s Dean of Engineering and recently became a Camp Warden for the McMaster Engineering Kipling ceremony. Pley is an Executive Member of the Board of the Aerospace Industries Association of Canada and serves as the Chair of its Space Committee. He was appointed in April 2017 to the Government of Canada’s new Space Advisory Board.

Pley earned his Professional Engineer designation in 1987 and, in 2006, was the inaugural recipient of the L.W. Shemilt Distinguished Engineering Alumni Award presented by McMaster’s Faculty of Engineering.

Hamish Robertson, Doctor of Science

Hamish Robertson completed his PhD in Atomic-Beam Physics and Nuclear Structure Physics at McMaster University and later joined the faculty at the University of Washington in 1994 and was appointed to the Boeing Distinguished Professorship in 2008. He has chaired the Nuclear Science Advisory Committee and the Division of Nuclear Physics for the American Physical Society (APS). A past Member of the Board of Physics and Astronomy of the National Research Council, he has also served on NRC Nuclear Physics and Neutrino Astrophysics panels, as well as the APS-DNP Executive Committee. Robertson is a Fellow of the Institute of Physics (London), the American Physical Society, the American Academy of Arts and Sciences, and the National Academy of Sciences. In 1997, he received the APS Tom W. Bonner Prize. In 2015 he shared in the award of the Breakthrough Prize in Physics.
DISTINGUISHED UNIVERSITY PROFESSORS

Faculty of Health Sciences

Dr. John Kelton
Professor, Michael G. DeGroote School of Medicine
Executive Director, Michael G. DeGroote Initiative for Innovation in Healthcare

John Kelton is a Professor in the Michael G. DeGroote School of Medicine and Executive Director of the Michael G. DeGroote Initiative for Innovation in Healthcare. His research in hematology, which has changed clinical practice worldwide, has spawned nearly 300 scholarly articles, including 16 in the New England Journal of Medicine.

Kelton’s three terms as Dean and Vice-President of McMaster’s Faculty of Health Sciences featured historic growth that saw the School of Medicine ranked in the world’s top 15 university health programs. A Member of the Order of Canada, Kelton is also a Fellow of the Royal Society of Canada, the Canadian Academy of Health Sciences and the Royal College of Physicians. He has received the Prix Galian Research Award and the Gold Medal in Medicine from the Royal College of Physicians and Surgeons of Canada.

Faculty of Humanities and Arts & Science Program Ceremony

Dr. Barry Allen
Professor, Department of Philosophy

A member of McMaster’s Department of Philosophy since 1986 and a Fellow of the Royal Society of Canada, Barry Allen’s research concentrates on the concept of knowledge, which he studies from interdisciplinary and multi-cultural perspectives in all its dimensions in human civilization, ecology, and evolution. His work is notable for bridging gaps between analytic and continental philosophy and Asian and Western thought, to address a wide audience in contemporary and comparative philosophy and the human sciences.

He has been a visiting professor and invited speaker in seven countries, and is associate editor of the interdisciplinary scholarly journal Common Knowledge. He is the author of five books, including Truth in Philosophy, Knowledge and Civilization, Artifice and Design, and Vanishing Into Things: Knowledge in Chinese Tradition. His most recent book, Striking Beauty: A Philosophical Look at the Asian Martial Arts, was selected as a Choice Outstanding Academic Title for 2016.

Faculty of Science (Morning Ceremony)

Dr. Laurel Trainor
Professor, Department of Psychology, Neuroscience & Behaviour

Laurel Trainor is a Professor in the Department of Psychology, Neuroscience & Behaviour; the Director and Founder of the McMaster Institute for Music and the Mind; a Senior Fellow with the Canadian Institute for Advanced Research; and a Research Scientist with the Rotman Research Institute. She pioneered the study of the ways musical experiences influence brain development and founded LIVELab, McMaster’s unique laboratory/concert hall.

Trainor has been named one of the academic experts most frequently consulted by Canadian media and twice had papers listed among the Centre of Excellence for Early Childhood Development’s top ten articles of the year. A Fellow of the Royal Society of Canada and the Association for Psychological Science, Trainor holds Honorary Board Membership with the Suzuki Society of the Americas and received McMaster’s Innovator of Distinction Award.

Faculty of Science (Afternoon Ceremony)

Dr. Michael Brook
Professor, Department of Chemistry and Chemical Biology

A Professor in the Department of Chemistry and Chemical Biology, Michael Brook is an expert in organosilicon, silica and silicone chemistry. He has won awards for his research, including the 2016 F. S. Kipping Award for Silicon Chemistry, American Chemical Society, and 2017 Macromolecular Engineering and Science Award, Chemical Institute of Canada; he was a Killam Research Fellow and co-winner of the Synergy Prize for Industrial Collaboration.

Brook is a pioneer in the development of synthetic methods for silicones with tailored properties, with implications for everything from cosmetics to microelectronics and biomaterials. He holds seven patents, and nearly 260 peer-reviewed papers and book chapters. His book Silicon in Organic, Organometallic and Polymer Chemistry is considered the standard in the field.

Brook has twice won the MSU Teaching Award for the Faculty of Science and the President’s Award for Instruction.
Gaulin, who is expert at applying neutron scattering to problems in materials physics, also brought the first image furnaces to Canada for the discovery of crystals of new quantum materials. He is a fellow of the Royal Society of Canada and the recipient of the Brockhouse Medal. He is also a Senior Fellow of the Canadian Institute for Advanced Research who has received a Killam Research Fellowship and an Alfred P. Sloan Fellowship. Gaulin is a Fellow of the American Physical Society and the Neutron Scattering Society of America (NSSA). He was NSSA President from 2009 to 2013 and is currently Vice-President of the Canadian Association of Physicists.

Apart from his studies, Alex prides himself on being an active member of his school community. As outgoing president and co-founder of the McMaster Undergraduate Academic Astronomy Club, he helped to provide students from all faculties a group through which they could learn more about modern astronomy research. He also served as the two-time Senior Editor for The iScientist, McMaster’s first interdisciplinary peer-reviewed undergraduate journal, helping to publish both its first and second volumes. Finally, he served as a neuroscience teaching assistant for two years.

His broad research background and interdisciplinary foundations have motivated Alex to pursue a joint MD/PhD degree at the University of Toronto, conducting his research in the Department of Medical Biophysics. He would like to express deep gratitude to his friends, professors, and family, all of which he sees as the latter, as without their support and care his success would not be possible.

GOVERNOR GENERAL’S ACADEMIC MEDAL

Alex Dhaliwal

Alex is graduating from the Integrated Science program without Concentration, instead pursuing a triple minor in Physics, Mathematics, and Biochemistry. He recently completed his undergraduate thesis in biophysics alongside Dr. Maikel Rheinstädter, attempting to understand the fundamental interactions between sugars and lipids membranes.

Emily Farquharson

Emily Farquharson is graduating from Civil Engineering and Co-op. During her degree, she focused on structural engineering, and for her final-year design project, she worked with her group SCS Consultants Ltd. to design the terminal and runways for the future Pickering International Airport.

Between her third and final year, she completed a sixteen-month internship with the Partnership Ventures department of Dufferin Construction Company, working on bids for large infrastructure projects including the Highway 427 Expansion and the Finch West LRT.

Outside of school, Emily loved playing on the McMaster Field Hockey team for all four years of her degree. She also enjoyed volunteering as a coach for the Halton Field Hockey Club and at the Habitat for Humanity ReStore.

Following her final year, Emily began working as a Structural Engineer-in-Training at WSP, and has not closed her steel or concrete handbooks since.
PRESIDENT’S AWARD FOR OUTSTANDING CONTRIBUTIONS TO TEACHING & LEARNING

**Faculty of Health Sciences**

**Dr. Sandeep Raha**  
Associate Professor, Department of Pediatrics

Dr. Raha is an Associate Professor in the Department of Pediatrics at McMaster University. He obtained his PhD from the University of Toronto, Department of Biochemistry. His post-doctoral training was carried out the Hospital for Sick Children in the area of mitochondrial dysfunction and metabolic disease. He then worked in the biotech sector as the manager of the molecular biology group of FONA Technologies designing and optimizing biosensors to detect single nucleotide polymorphisms. He started his own research program in 2007, in the Department of Pediatrics. Dr. Raha’s research focuses on understanding how stress during pregnancy can affect the future health of the baby. Currently, he focuses on understanding how stress caused by pharmaceuticals and environmental chemicals may disrupt the function of the trophoblast cell, a type of stem cell that is central to the development of the placenta. His research aims to connect poor placental function with fetal health outcomes so that early life medical interventions can be developed. In 2011, Dr. Raha co-founded and is the current director of the McMaster Children and Youth University Program, a campus wide outreach program, which provides engagement opportunities between McMaster faculty, students and community youth and their families.

**Faculty of Science (Afternoon Ceremony)**

**Dr. Chad Harvey**  
Assistant Professor, School of Interdisciplinary Sciences

Dr. Chad Harvey is a Teaching Track, Associate Professor, in the Integrated Science Program, School for Interdisciplinary Science and an Associate member of the Dept. of Biology. He received is B. Sc. in Zoology from the University of Guelph, M. Sc. in Entomology from Auburn University, and his Ph. D. in Zoology from the University of Wisconsin-Madison. His discipline research seeks to better understand foodweb and community level interactions of invasive species in human-dominated environments. As a winner of the Ontario Undergraduate Student Alliance Award for Teaching Excellence (2016) and twice nominated for a McMaster Student Union Teaching Award (2013, 2015) his true passion lies in interacting with students. He finds nothing more motivating than facilitating the student process of learning, as they journey from the struggle of understanding to the generation of their own new ideas. He actively pursues pedagogical research to find better ways to facilitate the student experience and challenge students to think for themselves. He has achieved fruitful national and international collaborations looking into research-based education and the importance of teaching skills in addition to information delivery. He truly cares about his students, the student experience and how today’s students can become tomorrow’s leaders – the process we call education.

**Faculty of Science (Morning Ceremony)**

**Dr. Felicia Vulcu**  
Assistant Professor, Department of Biochemistry and Biomedical Sciences

Felicia Vulcu is a teaching professor in the Department of Biochemistry and Biomedical Sciences. Felicia is a homegrown McMaster alumna having completed both her B.Sc. and PhD in the same department she now works in. She currently teaches a number of courses in the Biochemistry and BDC (Biomedical Discovery and Commercialization) programs. She is also the undergraduate program advisor and the coordinator for the BHSc Biomedical Sciences Specialization. Felicia’s contributions to McMaster include a number of pedagogical innovations such as inquiry-based labs and an online course. Additionally, Felicia is dedicated to creating a safe, nurturing environment conducive to sharing of ideas. She feels that establishing such an environment is the best way to engage students and harness their curiosity and creativity in biochemistry and biomedical sciences.

**Faculty of Business**

**Dr. Anna Danielova**  
Associate Professor and Area Chair (Finance and Business Economics)

Dr. Anna N. Danielova is an Associate Professor of Finance at the DeGroote School of Business, McMaster University. Dr. Danielova’s leadership in teaching and learning has been evidenced by her involvement in the development and redesign of six courses, including the first year finance curriculum in the MBA program and participation in the Program Development Committee of the Executive MBA in Digital Transformation. Many students attribute their successes in the work place to Dr. Danielova’s innovative experiential pedagogy that fosters higher level of learning by bridging theory and practice, elevating peer learning, and empowering students to take control of their education. Dr. Danielova is a devoted, approachable and supportive mentor for students, making material impact in their lives. In her current position as Area Chair, Dr. Danielova has further generated an influential impact on the curricula of three of the key programs in the School of Business: MBA, Commerce and Master of Finance.
Dr. Konstantinos Apostolou
Assistant Professor and Chair, W. Booth School of Engineering Practice and Technology

Dr. Apostolou is a teaching-track assistant professor in the W Booth School of Engineering Practice and Technology. He is also the Chair of the Process Automation Technology Program and a MacPherson Institute Research Fellow. A chemical engineer with a Dipl.Eng. from the Aristotle University in Greece and a Ph.D. from the University of Minnesota, he has been teaching at McMaster for over ten years in a variety of fundamental engineering and process modeling courses. In his courses he strives to help his students reach and increase their potential, while equipping them with the tools necessary to become productive citizens. To achieve that, he uses ample active learning in the classroom, blended learning through on-line quizzes, and practical training through labs. Teaching in an applied field, he always tries to connect theory to practice through everyday examples and by actively pursuing students’ interactions with the industry and the community.

PRESIDENT’S AWARD OF EXCELLENCE IN STUDENT LEADERSHIP

Saly Halawa
Faculty of Health Sciences

For two years, Saly worked as a campus emergency medical responder to provide on-call first aid and mental health support to students. During this time, Saly also helped encourage health education through teaching first aid courses on campus, as a Wellness Outreach volunteer through the Student Wellness Centre and as a peer support listener. This year, she led the coordination of a competition for a national conference that brought together 10 university response teams to test their response skills. Additionally, Saly helped first-year students transition into university as a residence community advisor and as a Leadership Developer for the Horizons Leadership Conference. She pursued her passion for advocacy work through conducting pedagogical research through McMaster’ MacPherson Institute and as the sponsorship coordinator for Relay for Life, helping to raise over $74,000 towards cancer research. After graduation, Saly hopes to use her diverse skills and experiences as a clinician.

Elaine Stirling
Faculty of Health Sciences

For three years Elaine has served as a member of the McMaster Student Union’s Women and Gender Equity Network, a service dedicated to educating the student body about issues of gender equity and an intake centre for students who’ve experienced sexual assault and gender-based violence. This year as Coordinator, she helped to revolutionize the way peer support is provided to survivors of sexual assault, creating educational campaigns and programming to educate students on supporting survivors on campus. Throughout her term, Elaine has successfully spearheaded numerous collaborations with Hamilton community partners, such as the Leadership Summit for Women, SACHA and the Anti-Violence Network. Concurrent to her role as WGEN Coordinator, Elaine served as Co-Convener of the Violence Against Women/Gender Based Violence Working Group to advise the President and Provost on issues related to sexual and gender-based violence, and participated as a student consult in the creation of McMaster’s Sexual Violence Response Protocol, which was passed this year. After graduation, she hopes to use her skill set to pursue a career in health care, with a focus on trauma therapy.
For the past two years, Sonia has coordinated the Yonkwhahiyos mentorship program which bridges the gap between Indigenous students, the greater McMaster community, and surrounding Indigenous communities, while promoting conversations between Indigenous and non-Indigenous students as we share in this time of Truth and Reconciliation. Sonia also co-created and co-planned the inaugural Indigenous Students and Studies Welcome Week to create a more inviting space for Indigenous students; easing their transition into the university setting, while increasing Indigenous presence on campus. This year, Sonia brought together a group of Indigenous students in an independent studies course to work towards a research exchange in Aotearoa (New Zealand). Sonia has also participated in the Cooperative of Indigenous Studies Students and Alumni (CISSA), as well as the Indigenous Undergraduate Summer Research Scholars program. Sonia’s research has focussed on the healing of intergenerational survivors of the Residential School system. In graduate school, she will be shifting her focus to the reclamation of Indigenous Knowledge (IK) and culture through youth lead environmental movements.

This year Akeel has served as the co-president of the McMaster Engineering and Management (E&M) Society, and has as well been a member of the Industrial Advisory Committee for the E&M Program. He has also been apart of a group of interdisciplinary McMaster students who worked on creating and improving processes for a new Innovation and Enrichment Centre that supports both gifted and special learners in the Hamilton-Wentworth District School Board. Akeel also has acted as a student voice for Cycle Hamilton, a non-for profit member-supported coalition that works to promote a healthy, safe, and sustainable cycling culture in Hamilton.

Akeel would like to dedicate this award to his parents, Abdool and Fazielette, who he admits heavily attribute to the leadership skills he posses.

Adam Chiaravelle

The poet Mary Oliver once wrote that we only have “one wild and precious life”. Adam Chiaravelle’s wild life has become much more precious over last two years, as he has devoted most of his time to making McMaster a more sustainable place through local food. The projects Adam has undertaken have stemmed from climate change presentations at elementary schools, bringing back honey bees to McMaster, working on creating community garden with the Stinson neighbourhood and establishing McMaster’s first local food discount card. Adam’s endeavors would certainly not be possible if it were not for the droves of McMaster students and faculty that have mentored and worked with him.

This summer Adam has the privilege to be a research assistant to Dr. Chad Harvey to do a feasibility assessment on creating a permaculture garden at McMaster. Adam has learned that McMaster is the best place for change to take place and that we simple students can be agents of social change; it is pretty cool to help to create the world of our dreams!
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