

ONE HUNDRED SEVENTIETH



SCHOOL OF ENGINEERING AND APPLIED SCIENCES
C O M M E N C E M E N T

SATURDAY

MAY 14, 2016

2:00 PM

ALUMNI ARENA

NORTH CAMPUS

LIESL FOLKS

DEAN

Presiding Officials



Satish K. Tripathi
University President

An internationally distinguished researcher and higher education leader, Satish K. Tripathi, PhD, was appointed the 15th president of the University at Buffalo in 2011.

Tripathi, who served as UB's provost from 2004-2011, was dean of the Bourns College of Engineering at the University of California-Riverside from 1997-2004. Previously, he spent 19 years as professor of computer science at the University of Maryland, including seven years as department chair.

Tripathi graduated at the top of his class from Banaras Hindu University in India and holds a doctorate in computer science from the University of Toronto, as well as three master's degrees—one in computer science from the University of Toronto and two in statistics from the University of Alberta and Banaras Hindu University. A fellow of the IEEE and the American Association for the Advancement of Science, he was awarded an honorary doctorate from the Indian Institute of Information Technology, Allahabad.

An active leader in the national higher education community, Tripathi serves on the boards of the Association of American Universities, the Association of Public and Land-Grant Universities, the Council for Higher Education Accreditation, and the Digital Preservation Network, as well as the Mid-American Conference's Council of Presidents Executive Committee. He was appointed by Governor Andrew M. Cuomo as co-chair of the Western New York Regional Economic Development Council.



Liesl Folks
*Dean of the School of
Engineering and Applied
Sciences*

Liesl Folks, PhD, MBA, dean of UB's School of Engineering and Applied Sciences, is an internationally recognized expert in nanotechnology and magnetism. She holds 12 U.S. patents and is the author of more than 50 peer-reviewed technical publications. She is also a professor in the Department of Electrical Engineering.

Folks served as president of the IEEE's Magnetics Society (2013/2014) and was a member of a congressionally mandated panel for the Triennial Review of the National Nanotechnology Initiative, facilitated by the National Academy of Sciences, in 2012.

She has an exemplary record of support for STEM education initiatives, from her promotion of innovative programs at the PreK-12 level, to her role in launching a magnetics summer school program through the IEEE, which provides summer study opportunities each year to nearly 100 graduate students from around the world. In 2013, Folks was recognized for her mentorship of science and engineering students with the national AVS Excellence in Leadership Award.

Prior to arriving at UB in January of 2012, Folks worked for more than nine years at Hitachi Global Storage Technologies, a hard disk drive company in San Jose, California. Before that, she worked at IBM Almaden Research Center, also in San Jose, for six years.

A native of Australia, Folks earned a BSc (1989) and a PhD (1994), both in physics, from The University of Western Australia in Perth, where she subsequently worked as a research fellow. She also holds an MBA from Cornell University (2004).

Program

Prelude

*Processional

Buffalo Brass Quintet
Pomp and Circumstance
by Sir Edward Elgar

Mace Bearer

A. Scott Weber
Senior Vice Provost for Academic
Affairs, University at Buffalo

Banner Carrier

Katherine Czerniejewski
Candidate for BS in Biomedical Engineering,
BA in Mathematics

Herald

Jeffrey R. Errington
Associate Dean for Undergraduate Education,
School of Engineering and Applied Sciences

Opening Declaration

A. Scott Weber

National Anthem

Kristen Smigielski
Music in Performance
Buffalo Brass Quintet

Student Salutation

Sarah Jo Crotts
Candidate for MS in Biomedical Engineering

Welcome

Liesl Folks
Dean, School of Engineering and Applied Sciences

Presentation of Dean's Award for Achievement

Liesl Folks

Student Address

Charles Jones
Candidate for PhD in Chemical and
Biological Engineering

Recognition of Chancellor's Awards for Student Excellence

Liesl Folks

Remarks

Satish K. Tripathi
President, University at Buffalo

Conferring of Degrees

Satish K. Tripathi

Alma Mater - Lyrics on page 27

Taryn Darnell
Music in Performance
Buffalo Brass Quintet

Closing Declaration

A. Scott Weber

*Recessional

Buffalo Brass Quintet
Procession from Aida
by Giuseppe Verdi

**Audience will remain seated during the
Processional and Recessional.*

Departmental Receptions

You are invited to receptions immediately following the commencement ceremony.

- Chemical and Biological Engineering:
Student Union Flag Room, on the second floor
- Civil, Structural and Environmental Engineering:
first floor of Davis Hall
- Computer Science and Engineering:
Student Union, room 210
- Electrical Engineering:
Salvadore Lounge on the second floor of Davis Hall
- Biomedical Engineering, Industrial and Systems
Engineering, and Mechanical and Aerospace Engineering:
Student Union, room 145

Wheelchair seating is available at both the front right and left side of the arena. A signer is present at the right front of the arena. Please see an usher for assistance.

Telephones and restrooms are available on all three levels.

The UB Mace



The mace is part of the medieval traditions of the university. It was originally a weapon used to protect kings, and then by 1200 became more and more a symbol of authority.

The UB mace is designed to tell the story of UB and the Niagara Frontier. Fashioned by silversmith Hudson Roysler of Arcadia, Calif., it was used for the first time in 1962. Engraved atop a miniature walled structure representing the City of Buffalo are three arrows bound together, symbolizing the unity of UB and the city.

Other details include symbolic representations of the discovery of Lake Erie in 1669 by Joliet and early explorations by LaSalle. A crest symbolizes UB's role as a dynamic center of human growth and welfare. The motto "University and City Community" is lettered in Latin around the knob of the shaft.

Program Notes

School's Platform Party

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Vice President, UB Engineering and Applied Sciences Alumni Association

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Chair, Chemical and Biological Engineering

Stella N. Batalama
Chair, Electrical Engineering

Kurt Bessel
President, UB Engineering and Applied Sciences Alumni Association

Ann M. Bisantz
Chair, Industrial and Systems Engineering

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Associate Dean for Research and Graduate Education, School of Engineering and Applied Sciences

Jeffrey R. Errington
Associate Dean for Undergraduate Education, School of Engineering and Applied Sciences

Liesl Folks
Dean, School of Engineering and Applied Sciences

Venugopal Govindaraju
*SUNY Distinguished Professor
Vice President For Research and Economic Development*

Kemper E. Lewis
Chair, Mechanical and Aerospace Engineering

Chunming Qiao
Chair, Computer Science and Engineering

Albert H. Titus
Chair, Biomedical Engineering

Satish K. Tripathi
President, University at Buffalo

A. Scott Weber
Senior Vice Provost for Academic Affairs, University at Buffalo

Andrew S. Whittaker
Chair, Civil, Structural and Environmental Engineering

Commencement Coordinator

Christine A. Human
Associate Dean for Accreditation and Student Affairs

Herald

Jeffrey R. Errington
Chemical and Biological Engineering

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Computer Science and Engineering

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Mechanical and Aerospace Engineering

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Computer Science and Engineering

Mettupalayam V. Sivaselvan
Civil, Structural and Environmental Engineering

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Jennifer L. Zirnheld
Electrical Engineering

Marshals

Paschalis Alexandridis
Chemical and Biological Engineering

Carl Alphonse
Computer Science and Engineering

Jason N. Armstrong
Mechanical and Aerospace Engineering

Matthew L. Bolton
Industrial and Systems Engineering

Kevin M. Burke
Electrical Engineering

Kerry Collins-Gross
Assistant Dean, Office of Undergraduate Education

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Mechanical and Aerospace Engineering

Ciprian N. Ionita
Biomedical Engineering

James N. Jensen
Civil, Structural and Environmental Engineering

Venkat Krovi
Mechanical and Aerospace Engineering

Michael Langberg
Electrical Engineering

Hui Meng
Mechanical and Aerospace Engineering

Teresa Miklitsch
Senior Adviser, Office of Undergraduate Education

Chase C. Murray
Industrial and Systems Engineering

Johannes M. Nitsche
Chemical and Biological Engineering

Pinar Okumus
Civil, Structural and Environmental Engineering

Natesh Parashurama
Chemical and Biological Engineering

Matthew J. Ringuette
Mechanical and Aerospace Engineering

Debanjan Sarkar
Biomedical Engineering

Jongmin Shim
Civil, Structural and Environmental

Ramalingam Sridhar
Computer Science and Engineering

Robert C. Wetherhold
Mechanical and Aerospace Engineering

Yun Wu
Biomedical Engineering

Jinhui Xu
Computer Science and Engineering

Ruogang Zhao
Biomedical Engineering

Chi Zhou
Industrial and Systems Engineering

Jun Zhuang
Industrial and Systems Engineering

SEAS Support Staff

Susan Casucci
Kathryn M. Doran
James Friedman
Jane Stoyle Welch

Buffalo Brass Quintet

Larry Easter
Trumpet
Karl Kroetsch
Trumpet
Dan Wittmer
French Horn
Phil Sims
Trombone
Craig Hodnett
Tuba

Ushers

We acknowledge the assistance of our students and staff.

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LLC*

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*Senior Director Product Engineering,
Fisher-Price*

James F. Van Oss*
*Engineering Manager, Spacecraft
Fluid Controls, Moog Inc.*

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Vice President, National Fuel Gas

*School alumna/alumnus

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*American Institute of Aeronautics
and Astronautics*
Tyler Szczesniak, President

*American Institute of Chemical
Engineers*
Robert Pettitt, President

American Society of Civil Engineers
Jane Van Der Karr, President

*American Society of Mechanical
Engineers*
Marawan Kenawi, President

*Arab American Association of Engineers
and Architects*
Mohammed Saleh Al Obahy, President

Association for Computing Machinery
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Biomedical Engineering GSA
Elise Martin, President

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Max Simon, President

Chemical and Biological Eng. GSA
Andrew Kroetsch, President

Chi Epsilon
Alexander Stephani, President

Civil Engineering GSA
Timothy Van Oss, President

Computer Science and Eng. GSA
Yunfei Hou, President

*Earthquake Engineering Research
Institute GSA*
Basit Qayyum, President

Electrical Engineering GSA
Yanshu Li, President

Emerge
Joseph Degolia, Editor

Engineers for a Sustainable World
Connor Brown, President

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GSA*
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National Society of Black Engineers
Nolan Foster, President

*New York Water Environment
Association*
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o-STEM
Anna Smith, President

Scientista
Srajanika Doddi and Wenxuan Shi,
Co-Directors

Society of Automotive Engineers
Spencer Heyden, President

*Society of Hispanic Professional
Engineers*
Kevin Carpio, President

Society of Women Engineers
Laura Devine, President

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Development of Space*
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Tau Beta Pi
Katherine Czerniejewski, President

Theta Tau/Gamma Delta Epsilon
Dwight Robinson, Regent

UB Computational Sciences Club
Mohammad Atif Faiz Afzal, President

UB Design Club
Zachary Janish, President

UB Nanosat
Seamus Lombardo, Program Manager

UB Robotics
Liam Flynn, President

*UB Society of Asian Engineers and
Scientists*
Ricky Banh, President

UB Space Bulls
Kyle Thompson, Team Lead

Dean's Award for Achievement



Norman Hayes

received a double degree from UB with a Bachelor of Science in Electrical Engineering and a Bachelor of Arts in Computer Science. Hayes continued his education at Cornell University, earning his master's in Electrical Engineering in 1981, on a Bell Laboratories scholarship.

After completing his formal education, Hayes has made substantial technical and leadership contributions to three pioneering companies. The first was AT&T Bell Laboratories, a leader in world class R&D that invented the transistor, laser, and Unix. There he developed designs and technologies for some of the world's earliest 32-bit microprocessors. He joined his first startup, Sun Microsystems, in 1988. At Sun, Hayes developed ground-breaking microprocessor memory management and cache architectures which scaled

Each year, the School of Engineering and Applied Sciences (SEAS) gives its highest honor, the Dean's Award for Achievement, to someone who has made a substantial contribution to the practice of engineering or the applied sciences and/or has had an exceptional professional career. This year, it is with great pleasure that the school honors Norman Hayes (BS EE '80, BA CS '80). Hayes is a Director of Engineering in AISCs, and a Computer Architect.

As a Buffalo area native, Hayes was co-valedictorian at Sweet Home Senior High School (Amherst NY) in 1977. Just three years later, he

from desktop workstations to Sun's largest packet-switched MP servers. These architectures continued through many generations, which eventually made mini and mainframe computers obsolete. He joined Juniper Networks as a startup in 2000, where he served as a Director of ASIC Engineering on several generations of networking chipsets, whose top interface speeds advanced from 2.5 Gbps to 400 Gbps during his tenure.

Hayes recognizes the role his UB education and experience had in preparing him for a rewarding and successful career. "UB gave me a solid, broad foundation of how to solve real world problems. UB's faculty and leaders provided great personal examples of teamwork, creativity, and loving what you do."

Since his graduation from the School of Engineering and Applied Sciences, Hayes has always been an enthusiastic alumnus. In 1995, he was delighted to become a charter member of the Delta Society, the school's leadership annual giving society, and attended UB's inaugural homecoming football game (a 14-7 win over Cornell) in President Greiner's box. More recently, an engineering laboratory was named after Hayes in Davis Hall. In 2012, he was named Chairman of the Delta Society.

Outside of his professional career, Hayes plays ice hockey and tennis, and enjoys photography and the arts. He resides in the San Francisco Bay Area with his wife Jacqueline; their daughter Elena is a junior at UC Davis studying Management Economics.

The University at Buffalo is honored to name Mr. Norman Hayes an alumnus of great distinction, whose career achievements merit our highest regard.

Past Recipients of the Dean's Award for Achievement

1978

James W. McLernon, BS IE 1950, DocHL (Hon) 1998
President, Volkswagen Manufacturing Corporation of America

1979

Wilson Greatbatch, MS EE 1956, ScD (Hon) 1984
President, Wilson Greatbatch, Limited

1980

Paul E. Mohn
*Professor Emeritus and former Dean
School of Engineering and Applied Sciences
University at Buffalo*

1981

James DeSerio
President, DeSerio Engineers

1982

Martin Kasbohm
*Director, Research and Development
Linde Division, Union Carbide Corporation*

1983

Charles M. Fogel, BS PHY 1935
*Professor and Director of Industrial Liaison
School of Engineering and Applied Sciences
University at Buffalo*

1984

William C. Moog, Jr.
Chairman and President, Moog, Incorporated

1985

Howard E. Strauss, MS ME 1954
*Professor and Associate Dean
School of Engineering and Applied Sciences
University at Buffalo*

1986

Gregory B. Jarvis, BS EE 1967,
Awarded Posthumously
*Hughes Aircraft Company
NASA Payload Specialist*

1987

H. Robert Leland
President, Calspan Corporation

1988

Henry P. Semmelhack
*President, Barrister Information Systems
Corporation*

1989

Gerald D. Albertson
*Vice-President, Linde Division, Union Carbide
Corporation*

Past Recipients of the Dean's Award for Achievement (continued)

1990

Ray W. Judson
President, The Parsons Corporation

1991

Sol W. Weller
*Furnas Professor Emeritus
School of Engineering and Applied Sciences
University at Buffalo*

1992

Lee H. Runk, BS IE 1961
President, Harvard Industries, Inc.

1993

Irving H. Shames
*Distinguished Teaching Professor Emeritus
School of Engineering and Applied Sciences
University at Buffalo*

1994

Robert H. Goldsmith, BS ME 1951
*Chairman, President and Chief Executive Officer
Exten Industries, Inc.*

1995

Hatim A. Tyabji, MS EE 1969, DocHL (Hon) 2001
*Chairman, President and Chief Executive Officer
VeriFone, Inc.*

1996

Anthony L. Russo, PhD ME 1969
*Executive Director
Calspan-University at Buffalo Research Center (CUBRC)
Vice President
Calspan Corporation's Advanced Technology Center*

1997

Calvin C. Chien, MS CIE 1970, PhD CIE 1974
Environmental Fellow, DuPont Company

1998

Hiroshi Morihara, PhD ME 1971
*Chairman and Chief Executive Officer, Peninsula
Laboratories, Inc.
President, Via Press, Inc.
President, CGC, Inc.*

1999

Eli Ruckenstein
*Distinguished Professor
Department of Chemical Engineering
School of Engineering and Applied Sciences
University at Buffalo*

John Zahorjan, PhD IE 1974
*Adjunct Professor
Department of Industrial Engineering
School of Engineering and Applied Sciences
University at Buffalo*

2000

Erich Bloch, BS EE 1952, ScD (Hon) 1985
*Distinguished Fellow, Council on Competitiveness
Principal, Washington Advisory Group, LLC*

2001

Henry Stone, BS ME 1949
Vice President, retired, General Electric

2002

Lawrence L. Peckham, BS IE 1969
Founder, LPA Associates

2003

Hadi Makarechian, BS CIE 1972
*Chairman, President and Chief Executive Officer
Capital Pacific Holdings, Inc.*

2004

George C. Lee
*Samuel P. Capen Professor of Engineering and
Dean Emeritus
School of Engineering and Applied Sciences
University at Buffalo*

2005

Steven L. Lerner
*Senior Vice President and Chief Technology Officer
Praxair*

2006

Douglas P. Taylor, BS ME 1971
*President, Taylor Devices, Inc.
President, Tayco Developments, Inc.*

2007

Mark H. Karwan
*Professor and Dean Emeritus
School of Engineering and Applied Sciences
University at Buffalo*

2008

Norman R. McCombs, BS ME 1968
*Senior Vice President
AirSep Corporation*

2009

Gina Bronkie Hammond, MS CS 1973
*Director, Computer Science Corporation's North
America Public Sector, Defense Division*

2010

Russell L. Agrusa, BS EE 1976
*Founder, President, and Chief Executive Officer
ICONICS*

2011

Scott D. Stevens, PE, BS CIE 1979
*Founder and Chief Executive Officer
Dimension Fabricators, Inc.*

2012

James P. Smist, BS CE 1980
*President
Dean and Company*

2013

John R. "Jack" Davis, BS IE 1955
*Founder and Owner
I Squared R Element Company, Inc.*

2014

Stephen E. Still, BS CIE 1976
*Founder and Managing Director, Seabury Airline
Planning Group, LLC*

2015

Krishna Kolluri, MS IE 1988
*General Partner
New Enterprise Associates*

SUNY Chancellor's Awards for Student Excellence



Steven J. Coffed
*Mechanical and Aerospace
Engineering
University Honors College
Scholar*

Steven Coffed of Depew, N.Y., graduates with a bachelor of science in mechanical and aerospace engineering. Coffed already has notable experience in the field; he spent two summers interning at NASA's Jet Propulsion Laboratory and a summer studying at France's Institut Supérieur de l'Aéronautique et de l'Espace. He served as president of UB's chapter of Students for the Exploration and Development of Space for the 2013-14 academic year, and participated in two winter study abroad trips.



Timothy J. Van Oss
Civil Engineering

Timothy Van Oss of Buffalo, N.Y., graduates with a master of science in civil engineering. He was a recipient of the Western New York Prosperity Fellowship and plans to develop the next generation of iconic structures in the Buffalo metropolitan area. As president of the Civil Engineering Graduate Student Association, Van Oss represented UB students at international conferences, bringing back new perspectives that can be applied to local issues. He also served as a practitioner adviser for the UB Student Chapter of the American Society of Civil Engineers where he mentored students on professionalism, budgeting, scheduling and leadership.



Mingcong Zhang
Computer Science

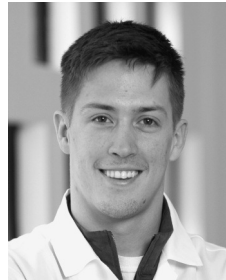
Mingcong Zhang of Amherst, N.Y., graduates with a bachelor of science in computer science. Zhang has received multiple scholarships from UB and the National Science Foundation, which are marks of his high academic achievement. He also has military service experience, and was awarded the U.S. Army Achievement Medal. In 2015, Mingcong founded Snowberg Inc., a technology startup company that has been recognized by the New York State governor and is sponsored by Google Inc.

Student Speakers



Sarah Jo Crotts
Biomedical Engineering

Sarah Jo Crotts of Alpharetta, Georgia graduates with a MS in Biomedical Engineering after completing her undergraduate studies at Auburn University in 2015. Sarah Jo graduated from Auburn University summa cum laude with a degree in Biomedical Sciences concentrated in Pre-Medicine. After making the decision to further her education at the University at Buffalo, she pursued research in designing and building a reaching apparatus through AutoCAD and 3D printing. She plans to return to Atlanta, Georgia and pursue a career in the biotechnology industry.



Charles Jones
*Chemical and Biological
Engineering*

Charles Jones of Bear Creek, N.C., graduates with a Ph.D. in Chemical and Biological Engineering. Jones came to the University at Buffalo after graduating from North Carolina State University in 2011, majoring in both chemical & biomolecular engineering and biochemistry. As a graduate student, Jones authored over 20 publications and generated intellectual property that culminated in the co-founding of a company, Abcombi Biosciences, where he currently serves as the chief executive officer and oversees operational facilities in Buffalo and Toronto.

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*University at Buffalo alumnus/alumna



Candidates for Degrees

Subject to the completion of all degree requirements, degrees will be conferred as indicated upon those individuals listed herein who were identified by April 5, 2016, and upon such others as may meet the requirements of their respective degrees. Candidates are listed according to actual date of degree conferral (September 2015; February 2016; and June 2016). Degree recipients will come forward to be congratulated during the commencement ceremony. In the following lists, candidates for a double major (a degree encompassing two majors), are denoted by an asterisk (). Candidates for a double degree (the award of two distinct degrees completed concurrently), are denoted by two asterisks (**). Candidates for a double major and a double degree are denoted by a diamond (◊).*

Today's graduates are presented gifts of pins and pens(PhD candidates) by the School of Engineering and Applied Sciences and UB Alumni Relations.

Honors are designated by student names in the Candidates for Degrees according to the following symbols and abbreviations.

University Latin Honors

Latin Honors are granted to graduating seniors who have completed at least 60 undergraduate credits at UB, of which at least 54 credit hours are graded, and to those who have earned grade point averages, as follows:

§ Cum Laude - at least 3.20, to 3.499

‡ Magna Cum Laude - at least 3.50, to 3.749

† Summa Cum Laude - 3.75 or more

This list is based on courses taken through the Fall 2014 semester.

Students may wear a gold cord.

Honor Society

TBP: Tau Beta Pi is the only engineering honor society representing the entire engineering profession. Students may wear a white stole.

The Gold Stole

The gold stole was received by students who are University Honors College graduates.

Delta Alpha Pi

Delta Alpha Pi is an international academic honor society for college/university students with disabilities. Graduating members received a blue and gold cord.

Non-Academic, University-Wide Recognition Items

The Kente Stole

The kente stole was received by students who participated in UB's ALANA Celebration of Achievement which historically has honored graduating African, Latino/a, Asian, and Native American students.

The Rainbow Tassel

The rainbow tassel was received by students who participated in the Lavender Reception, celebrating achievements of graduating students who identify with the lesbian, gay, bisexual, transgender and queer (LGBTQ) community at UB.

The Red, White and Blue Cord

The red, white and blue cord is being worn by graduating UB students who are reservists, members of the National Guard, newly commissioned officers from our ROTC program or veterans of the United States armed forces.

Baccalaureate Degrees

Recommending Candidates for Degrees

Liesl Folks
Dean

Bachelor of Science in Aerospace Engineering

September 2015

Charles Raymond Moon Jr. *
Gino Lee Nadela *
M. H. Priyanta Siri Sumana Siri *
Steven Christopher Scott Sutton § *

February 2016

Quinn Alan Adair *
Dale Baran § *
Jason Ming Chan *
Jacob R. Conrad *
Daniel Thomas Gardner *
Adam Les Hammond § *
Tyler Stephen Hardenbrook
Lucius James Jones III *
Mitchell Edward Maziarz § *
Matthew Thomas Nesper † *
Alexander P. O'Brien § *
Kristian Sukaj § *
Jack Wong *

June 2016

Muhammad Nur Ariff Bin Abdul Razak § *
Amadeus Antonio Astacio *
Kevin Vincent Ausanio *
Jesse Salomon Bauer *
Ajit Bhat *
Reimon Bhuyan
Connor Nicholas Bracy *
Kevin Alexis Carpio ‡
Jeremy Robert Chapman † TBP *
Megan Elizabeth Cheney § *
Steven J. Coffed † *
Katherine Rose Coley ‡ *
Nicholas Andrew Colon
Peter Joseph Corrao § *
Nicholas Patrick Davidson †
Peter Davis ‡ †

Folaranmi Rachael Fakayode *
Jason Aidan Feuer †
Jonathan Fountain
Bartłomiej Piotr Gadek
Jake Richard Gemerek † *
Frank Carmen Paul Genovese § *
Tyler Gifford *
Ben Gigone § *
Shannon Ruth Griffin § *
Mordechai Nachshon Haberman *
Andrew Thomas Harris † TBP
Alexander Peter Hathaway *
Spencer Theodore Heyden § *
Thomas Andrew Hoolahan § *
Bercely Hurtado Otolara † TBP *
Corinne A. Hutchinson † *
Dale Jason Kawa *
Rachel Elizabeth Keil † *
Razmik Khachatryan § *
Muhammad Addil Khan *
Alexander J. Kolarich §
Juncelucan Lagda *
Martin Alexander Leff ‡ *
Christopher James Lew
William Porter Stuart Mackay ‡
Nicholas Patrick McCassey † *
John Paul Mcwhinnie § *
George A. Melero *
Jennifer Rose Merckel *
Luke Joseph Miller §
Anthony Montero †
Elizabeth Moon § *
Parthivi Narang *
Corey Max Needle † *
Brandon John Nunes ‡ *
Ifechukwu Ambrose Ononye §
Justin Brian Ort
Joseph Tyler Pace § *
Subin Park §
Andrew Pennachi † *
Harry A. Perez
Jack L. Pilie *
David Benjamin Ritter § †
Louis Anthony Rizzo § TBP *
Leonardo Alberto Daniel Rodriguez Leon ‡
Benjamin Alexander Rothstein ‡

Caleb J. Saathoff § *
Abigail Lynne Sheeley
Tyler John Szczesniak § *
Colin Trinh ‡ *
Conor Westphal § **
Aaron Wixner
Rei Yoshinaga §

Bachelor of Science in Biomedical Engineering

September 2015

Nalini Gadkary †
Chien Sing Poon § *

June 2016

Anandita Ananthakumar ‡
John Aidan Armstrong ‡
Jash Bhayani † TBP
Nichole Bozyk §
Richard Patrick Brooks †
Maninderpal Singh Cheema ‡
Andrea Roma Ciolko †
Nicholas Michael Cocilova ‡
Justin Ryan Cohen
Katherine Ann Czerniejewski † TBP **
Siddhartha Dhiman
Maury E. Fields
Jonathan William Folmsbee §
Brandon Gerald Ginley ‡
Shima Habibollahzadeh §
Brian James Hagan ‡
Kent Stephen Harvey
Ryan Bolton Hubbell
Wan Yin Kam
Michelle Karker † TBP **
Aaron Kennedy
Vinh Kha
Alicia Christine Knauf §
Connor Charles Leek
Rachel Su Ann Lim § **
Cuiyan Kate Lin † TBP
Brendon Robert Lutnick † TBP
Joseph Steven Mango
Sean Martin † TBP
Kimberley Fairliancy McGarrity §
Sarah Jean McKinley ‡

Mudita Mishra
Vienna Laura Mott
Eric Micheal Mruk
Ryan Patrick O'Hara † TBP
Adam Kevin Oetinger §
Khyati Champakkumar Pandya
Mark A. Prytyskach §
Wesley Emile Rivais §
Lauren Valerie Roberts † TBP
Richard Joseph Savino §
Thomas Matthew Savoldy
Nicolette Marie Scerra ‡ TBP
Evan William Shaw †
Daniel W. Shin
Max Andrew Simon ‡ TBP
Claire Irene Sucharski §
Andrey Vasily Svintozelsky ‡
Ryan Paul Therrien §
An Van Tran ‡
Dean Edward Venturin II §
Melissa Ann Ward
Nicole Kathleen Wawrzyniak † TBP
Kunyu Wu

Bachelor of Science in Chemical Engineering

September 2015

Wei Yang Chye
James Kim
Qibiao Weng

February 2016

Azza Ahmed Hosny
Joseph Anthony Manso §
Jun Hui Yeoh

June 2016

Chin Fong Ang
So Mi Baek
Ananthan Balachandran
Joshua David Barra
Enzo Corey Benfanti †
Max Julius Braun ‡
Darwin Chen †
Jenny Chen ‡
Po-Han Chen
Yiran Chen

Brandon L. Chin
Kimberlyn Marie Comstock †
Jeffrey Deng
Ricky Singh Dundi
Dana Michele Havas †
Ken He ‡
Keira Henry
Jay William Hidy
Christopher Seamus Hogan
Nathan Alan Homka §
Thomas Anthony Hughes † TBP
Tony Huynh §
Vivian Huynh ‡
Se Won Jeon
Weiguang Jia §
Hunter Fredric Jones §
William Ross Kellogg †
Stephanie Mabel Kong † **
Gary Lambert Jr.
Andrew Richard Lane §
Jessica Faye Lee §
Sukrim Lee
Sharon Lin † TBP
Shaquille Louis
Tyler John Lucci †
Daniel Lawrence Matera †
Alexandra Mary Matzan ‡ TBP
Austin James Mermell §
Kevin David Milne
Madison G. Mintz
Sian Ho Ng
Emmanuel Nsengiyumva
Josuenny O'Donnell
Hannah Marie Osgood ‡ TBP
Hengyu Pan
Wen Sheen Pang
Don Salinda Prasanjith Pathirage **
Mikhail Pechagin
Robert William Pettitt
Mohammed W. Rahman §
Michael Joseph Reinhardt
Ana Gabriela Santandreu §
Laura Saunders ‡
Joseph R. Scheda
Ethan Andrew Schrodt §
Keelan Matthew Schwab
Zaid Shogan §
Jae Ho Son
Catherine Danielle Spohn
Jacob Guy Thompson

Michael Tong *
Qinqin Xiao ‡
Mohammed Sami Ahmed Zaid § TBP

Bachelor of Science in Civil Engineering

September 2015

Idris Erdem Bostan
Ryan Matthew Brezi Sr. ‡
Hsien Han Chan
Xilin Chen
Engin Cirak
Christopher P. Radjic Etienne §
Fabrice Etienne
Musab Eyyupkoca
Volkan Genel
Yunus Gorenoglu §
Aslan Vecdi Ilhan
Kenan Karakus
Syed Adnan Lahori
John Bernard Martz Jr.
Coletha Nyangoma Peter Katisha
Mulima §
Ufuk Mungan
Ali Cem Ozkok
Andrew Tongchareon Paragas
Onur Turkmen
Samet Gokberk Ugurlu
Yeng Kit Yap
Muhammed Yilmaz

February 2016

Anthony James Asala
Marwan Elkhatab
Christopher Robert Heiss
Chamal Jeewantha Hettigama
Justin Hwang
Christian Mark Jacobs
Kristina Lochan
Andrew Lapchi Lui § *
Eric John Mauro
Mackenzie Elizabeth Payne
Tarik Ramini
Joshua Edward Schmid † TBP
Jonathan Sungbum Shin
Mehmet Emin Unver
Justin Matthew Woodruff

June 2016

Erick R. Bach §
Maxwell Joseph Barone

John Michael Billittier Jr. ‡
Nicholas Andrew Blake †
Brendan Brethel
Ryan Edward Burns
Suad Cakar
Andrew David Calkins
Zulal Cebeci
Xiaoke Chen
Yu Hua Cheok §
Elizabeth Mariah Clark ‡
Nolan Colucci
Christopher Dalton
Gustavo Flavio De Andrade §
Alper Demirbag
Burak Develioglu
Onder Eksi
Onur Erdinc
Neil Elliott Ferguson ‡
Christopher Michael Fritzl
Shawn Xiangdong Gao **
Tyler Garrity ‡
Benjamin Jules Genco §
Suyeta Griffin
Samuel James Hansen ‡ TBP
Mark Daniel Hare §
Mitchell Hares †
Jessica Ann Marie Harms
Gino Huaman
Cheuk Wing Hung §
Rosemarie D. Hvisch
Matthew Len Itzler
Adrian Ivce
John Philip Kennedy Jr.
Cetin Kilic § TBP
Yeow Seng Koh
Roger William Laistner
Abel Cinzam Lamkai
Raymond Scott Langill II
Jonathan Michael Linfield
Andrew Joseph Machaby ‡
Mark James Mahan Jr.
Junaid Ashfaq Malik
Sana Mdallel
Fatjon Zija Mecorapaj
Jennifer Rose Merckel *
Sean Kerry Murphy ‡
Joshua Thomas Myers **
Nicholas Andrew Myers
Wil Hans Nagengast †
Martin Ng
Maisha Noshin

Ryan Stephen O'Malley §
Michael Paul Olszewski
Carley Elizabeth Parker
Kadir Burak Pelek
Michael Carmelo Pietrantonio
Steven Matthew Rahn
Ariel Lindsey Regnier §
Jakub Rybicki
Samet Saglam
Mohammed Ahmed Saleh Al Obahy
Ashley Sciandra † TBP
Berkant Senol
Jianhua Shao § **
Andrei Shatalov
Alexandra Sheng §
Daniel Flagg Smith †
Cody J. Standing
Brianna Melissa Stasiak §
Conor Lawrence Stucki
Zeynep Sunay *
Wey Sherng Tan
Ifeoluwa Tayo - Aremu
Shawn Adam Tenuity †
Mary Beth Toukatly ‡
Jane Sydney Van Der Karr §
Vitaliy Vysochansky
Evan Eric Weitz §
George Whitney Welsted Jr.
Kyle Winthers
Andrew McKay Wishman
Seth Wittlinger §
Jun Xie TBP
Jackie Ye
Yener Yunusoglu
Nicholas Lawrence Zeglen §

Bachelor of Science in Computer Engineering

September 2015

Ashaab Alam
Keith E. Baran
Satyam Mehta
Robert M. Szymanski

February 2016

Chern Yee Chua †
Daniel Lee Fischer
John Joseph Kuhn III §
Andrew J. Westcott

June 2016

Arunan Bala Krishnan

Andrew Dennison Booth † TBP
Nicholas Anthony Cellino †
Ava Chai § *
Yi Chen §
Woosuk Choi
William Joseph Clark ‡
Robert Alphonso DeBortoli † TBP
Sameep Dhawan *
Kevin Liam Duggan ‡
Zachary Benjamin Esmaelzada
Michael Robert Ferris ‡
Nolan Foster §
Korben Michael Rome Grover ‡ *
Matthew Thomas Howard
Kai Hsiang Hsu
Zhenrong Huang †
Nathaniel Dean Hutchings ‡
Wendy Jansson ‡ TBP
Seth Michael Karas †
Seongsu Kim §
James Andre LaCour
Ali Mahmoud
Shawn Malcolm Milligan ‡
Joseph Alan Peacock
Mitchell Rathbun †
Jacob Michael Rutowski
Thomas Jeremy Schouten †
Robert Shannon
Kayleigh Jane Siejak
Ethan Michael Vane †
Matthew Yves Winnick
Bao Xu
LeDong Yang §

Bachelor of Arts in Computer Science

September 2015

Michael Joseph McGuire
Thomas Matthew Mitchell † **

February 2016

Christopher Richard Charles
Dominessy
Kevin Trey Grazioplene
Michael Paul Hauptman
Jonathan Changwoo Oh
Matthew J. Wozniak

June 2016

Michael F. Alicea
Matthew Chan §
Patrick Chang §

Jake Christopher Duncan §
Adam C. Kunecki
Kyoung Eun Park §
Anika Sharma **

Bachelor of Science in Computer Science

September 2015

Alexander Robert Buell
Ching Hua Anthony Chang
Roy Young Jin Joo
Colin Thomas Lawson
Johnny Lin
Alexandra Marie Mazzei
Matthew David O'Connor
Om Patel
Christopher John Schnabel ‡

February 2016

Matthew Balthrop
Nathan Garrett Burgers ‡
Yao Feng Chen ‡
John Derrick Cherry
Raymond Chow ‡
Kendra S. Claiborne
Ian Michael Ford ‡
Adam Garrett
Dong Han
Alex Christopher Herdzyk ‡
Jimmy Zengwang Huang
Violin Georgiev Iliev ‡
Kunal Jaiswal
Liang Jia Jiang §
Samina Aleen Khan ‡
Jason Douglas Kromer §
Ryan Joseph Kulkarni TBP
Matthew James Lease §
Simon Lee
Zeming Liu ‡
Aarav Malik †
Caleb McMahan-Eagan
Jordan J. Nohle
Glen Edward Noworyta
Emmanuel Obogbaimhe Jr.
Benjamin Andrew Paine ‡
Nancy Rana
Alexander Thomas Rookey †
Tamal Roy
Benjamin Joseph Rueda ‡
Rohan Madhukant Shah
Ryan Cooney Sicurella ‡

Andrew James Stohr §
Tejas Vyas
Keenan Reed Wannop
Andrew Steven Willms
Jackie Xu
Lidan Xu †
Mingcong Zhang ‡

June 2016

Shiraz Ahmed Amin § *
Ryan M. Anyi
Stephen C. Bass
Breckinridge Eliot Borges †
Diana Nicole Boulden §
Joshua Bueno †
Jeremy Caldwell §
Arthur Tiendin Chan
Christopher Conloon Chan
Andrew Chung
Daniel Paul Clark ‡
Daniel Thomas Conway † *
Emmanuel Cott **
Michael Czaplicki
Jialiang Du
Eric Lee Ernst ‡
Martin William Fahy
Daniel G. Filipski †
Darryl Forconi
Matthew James Gill
Yongbo Hao
Haoriwa †
Calum Booker Henri
Duy Xuan Hoang
Gabriel David Scheib Holodak ‡
Mengpei Hu ‡
Jimmy Huang §
Jarret Michael Hutchison
Kyle B. Jemmott §
Amal Khandelwal †
Jun Mo Kim
Christian Bernd Koehler
Kevin Koo
Brynn Elyse Kreilick
Norbert Lam
Chih-Chun Lee ‡
Bobby Li
Justin Liang
Winnie Liang
Yong Keat Lim
Shihong Lin §
Wenhua Lin † **
Todd Alan Lock §

Jack Ma
Gela Malek Pour
Michael Mastro
Matthew G. McGovern
Nicholas John Mckiernan
Saurav Mohapatra
Bryan Nip § *
Gino Joseph Notto
Jihoon Park
Ryan Michael Peters
Andrew Plewak
Aaron Preston
Jose David Puentes-Ocampo
Shen Qi
Adam Sheldon Raetz
Antonio Randazzo
Arjun Ray
Isaac Reath ‡
Robert Thomas Rymarczyk
Harrison K. Shih
Mark Christopher Simson †
Patrick Smith §
Christopher Adam Sporski
William Michael Spoth ‡ **
Allen Su
Xingdi Tan §
Junlin Tang
Rahul Tripathi
Haider Atta Tung
Christopher Landon Wilson
William Matthew Winnie §
Shuaisan Yu
Vicky Zheng ‡

Bachelor of Science in Electrical Engineering

September 2015

Robert Anderson
Srdjan Dragojevic
Akeem Antonio Francis
Javone Gift ‡
Saseen Reddy Punyala
Chris Thomas Starling §

February 2016

Oleksandr Nemesh §
Michael Gregory Thomas
Jiang Yu ‡

June 2016

Haissam Mahammad Adam III
Naved Akhter

Baccalaureate Degrees

Ismail Aktas
Shiraz Ahmed Amin § *
Nathan Anthony Baize
Andrew Scott Basista
Qixun Cai §
Ava Chai § *
Xiangyang Chen ‡
Jaehyun Choi
Ling Yun Chou §
Daniel Thomas Conway † *
Samuel John Cook §
Timothy Charles Coulter †
Paulo DeMelo ‡
Dale Scott Denny Jr. §
Sameep Dhawan *
Daniel Ryan Dye ‡
Dillon Matthew Edmister §
Lingjie Feng §
William Dominick Filosi †
Casey Fraser
Daniel Walter Glab
Daniel Johann Goedeker
Mack Goodstein §
Gabrielle Lei Gosset ‡ TBP
Korben Michael Rome
Grover ‡ TBP *
Conor James Hixon
Alex Michael Horn §
James Scott Houlihan §
Darnell Jones
Craig William Kaiser
Matthew Stephen Kaiser §
Seungwoo Kim
Andrew Kimball
David Robert Kishlar †
Matthew Bryan Klimek §
Vu Le §
Jiawen Li ‡
Zhulei Li §
Hong Woon (Ryan) Lim §
Bingyao Lin §
Wing Lun Ma †
Michael John Mahoney II §
Dwight Reagen Ambrocio Mariano §
Nathan Albert Mingoelli
Kristina Sergeevna Monakhova †
Andrew M. Morizio †
Jason William Myrick

Michael James Nietfeld ‡
Emran Nur
Jared Michael O'Hara †
Vincent Sabato Parisi †
Reginald Pierre
Alexander Peter Puleio ‡
Timothy Dwayne Ravel Jr.
Qasim Raza ‡ TBP
Boson Ruan §
Jean Claude Santiuste
Carly Ann Schulz ‡
Dominic Pasquale Sciarrino †
Derek Shum
Matt Harris Singer
Arjun Singh †
Maxim Dmitriy Solomonyuk §
Matthew Lewis Spitzer ‡
Nanthakumaaran Srikrishnan §
Jianfeng Sun § **
Edward K. Swinnich §
Matthew J. Szmak
Bryce D. Taras
Michael Tong *
Dana Marie Voll † TBP
Kevin Joseph Weigel ‡
Andrew Jason Wojcinski
Zesheng Xiao §
Zujia Xu §
Dongwei Yu ‡ **
Zehai Yu
Syed Mohammad Zain † *
Luke Michael Zakrajsek †
Kyle John Zalud
Wei Zhang §
Peng Hui Zhen §

Bachelor of Science in Engineering Physics

June 2016

John Luke Maher ‡
Victoria Riso †

Bachelor of Science in Environmental Engineering

September 2015

Victor Okechukwu Odili
Alanna Olear §

February 2016

Cem Ayanoglu
Andrew Lui § *
Yeu Deck Ngui
Anna Lynn Szczepanski

June 2016

Braden S. Belliveau
Derrick Michael Burgess ‡
Alyssa Nicole Carbone
Hayden Chan
Philip Chan
Hillary Monica Chiarella ‡
Thomas Michael Cuff Jr. §
William Thomas Emmert
Luke Goetz
Chester Eric Hochreiter §
Alexandra Marie Leader †
Paul Austin Lewandowski
Jacob Michael Lips
Mubashar Nazar Malik §
Amanda M. Murray
Richard Patrick Mustico
Justin N. Ng
Julianna Marie Pelella
Ashley Pomaski
Anthony Michael Ramat
Michael Reubens †
Jonathan Maxwell Rink
Edward James Schneider
Zeynep Sunay *
Anna Swirgun §
Robert Sheridan Swick
Joshua Michael Vaccaro
Steven Wu
Tony Lufan Ye
Wendi Zheng

Bachelor of Science in Industrial Engineering

September 2015

Brian Arthur Bischoff
David Mullen ‡ TBP **
Jacob John Stefanon

February 2016

John Philip Balzani †
April Lyn Bouquard

Brock Hoffman
Thomas Charles Malloy
Brett William Nolan ‡

June 2016

Joseph Ignazio Acquisto §
Leonard Arambam ‡
Kevin Bartosiewicz ‡
Rukasen Bey
Emil Ashan Boyagoda ‡
Brian Chen
Bryant Chen §
Danielle Lorene Chevalier † TBP
Akash Choudhary
Deedat Ahmed Choudhury
David Desantiago
Thomas Byron Fortman §
Tyler B. Halstead
Hokyoun Hwang §
Peter Hwang
Su-Ryun Jeong ‡
Anthony Thomas Lauria ‡
Dong Youel Lee
Joonghee Lee §
Cash A. Mahoney §
Duc Viet Nguyen
Tarik Osmancevic
Maurice John Ott
Rashul Panwar
Alison Park
Marvin Perez Hernandez
Robert Edwin Farquhar
Purkiss † TBP
Zachary James Steever † TBP
Henrick J. Tan §
Harrison Joseph Thompson
Steven Anthony Villacis
Nathalie Morbey Winder ‡ TBP
Jillian Laurel Yearke
Richard Thomas Young §

Bachelor of Science in Mechanical Engineering

September 2015

Lok Bahadur Baral
James Ross Brown Jr.
Donald William Carter
Jodie-Ann Valencia Duquesnay

Sean Micheal Farley
 Eric Anthony Jovenitti
 Yi Jui Lee ‡
 Kevin Lenard
 James Anthony Lombardo
 Sophie Lynn Minas † ◊
 Charles Raymond Moon Jr. *
 Gino Lee Nadela *
 Gerardo Rojano
 Sarmad Sardar Sabir Jr.
 Richard James Sambuco
 Alberto Santiago
 M. H. Priyanta Siri Sumana Siri *
 Steven Christopher Scott Sutton § *
 Sean Hong Siong Wong

February 2016

Quinn Alan Adair *
 Dale Baran § *
 Nicholas Bellocci
 Jason Ming Chan *
 Jacob R. Conrad *
 Daniel Thomas Gardner *
 Ethan Michael George §
 Adam Les Hammond § *
 Danny Huang
 Andrew Philip Hunt
 Lucius James Jones III *
 Nicholas Ryan Kier
 Anish Vir Arjun Kumar
 Alaina Macherone
 Anibal Felipe Martinez §
 Mitchell Edward Maziarz § *
 Chris Joseph Mustacchio
 Gregory Alex Nagy
 Milton F. Naranjo §
 Matthew Thomas Nesper † *
 Alexander P. O'Brien § *
 Jianzhou Qi
 Behzad Rustemi
 Jeffrey Scott §
 Raiyan Mohammed Siraj
 Kristian Sukaj § *
 Andrea Lee Trumpfheller
 Cornato Ron Vella
 Jeffrey Scott Verrall
 Cory John Vickerd
 Timothy Martin Whetstone

Kameron Todd Witt
 Jack Wong *
June 2016
 Muhammad Nur Ariff
 Abdul Razak § *
 Christopher W Ahearn
 Nurul Athirah Binti Ali Yusup §
 Edward Dua Amoako
 Lim Yih Ang
 R. Jamie Asbach §
 Amadeus Antonio Astacio *
 Kevin Ausanio *
 Gregory Thomas Auyang
 Kishen Kumar Balakrishnan
 Ryan James Ball

Jacob David Baranowski
 Jesse Salomon Bauer *
 Ryan David Beckinghausen §
 Raymond Edward Begiers Jr.
 Aishwarya Bhalchandra §
 Ajit Bhat *
 Michael Joseph Bill ‡
 Jeremy Ryan Bossert
 Connor Nicholas Bracy *
 Connor David Brown
 Thomas Leonard Brunacini ‡
 Samson Edmund Cameron
 Gianna Elizabeth Caprio §
 Jeremy Robert Chapman † *
 Daniel Gerard Chelius
 Megan Elizabeth Cheney § *
 Muyang Cheng
 Amanda Karoline Cinelli
 Steven James Coffed † TBP *
 Katherine Rose Coley ‡ *
 Kyle William Collins
 Daniel Edward Corbett
 Ryan Benjamin Corey
 Peter Joseph Corrao § *
 Ian Cummings
 Stefan Zbigniew Cwalina †
 Mohamad Daher
 Kevin Andrew Dailey
 Brian Danson §
 Kevan Gianathan Darmawan ‡
 Peter Davis ‡ ◊
 Dominic Decicco



Baccalaureate Degrees

Nicholas Del Vecchio
 Connor Stratton Devine
 Nicholas Colin DiPasquale
 Kristene Alecks Elia TBP
 Sardar M. Elias §
 Filippo Esperanca Moreira Da Silva
 Folaranmi Rachael Fakayode *
 James John Faran §
 Jason Aidan Feuer ◊
 Jordana Allyn Fish
 Michael John Fitts §
 Liam Flynn
 Livio Forte III
 William P. Frisch
 Jake Richard Gemerek † *
 Frank Carmen Paul Genovese § *
 Tyler Gifford *
 Ben Gigone § *
 John Richard Graff
 Shannon Ruth Griffin § *
 Robert Louis Gucker III
 Ethan Gundlach
 Deniz Guven §
 Mordechai Nachshon Haberman *
 Alexander Peter Hathaway *
 Daniel Lance Henry-Small †
 Dylan Samuel Henschel
 Spencer Theodore Heyden § *
 Kyle Michael Hinman
 Thomas Andrew Hoolahan § *
 Hongyu Hu §
 Adam Nicholas Hubbard
 Thomas Huber §
 Bercely Hurtado Otolara † *
 Corinne Hutchinson † *
 Zachary James Intrabartolo
 Junhung Jang
 Thomas Rogers Jenkins
 Matthew Dariusz Juskiewicz §
 Kollin Kaleta
 Dale Jason Kawa *
 Rachel Elizabeth Keil † *
 Razmik Khachatryan § *
 Muhammad Addil Khan *
 Brian William Kiel † TBP
 Michael Shane Kirschenheiter
 Brendan Matthew Kisselback
 Marshall Stewart Klee † TBP

Lucas Christopher Kowalczyk
 Daniel Dean Kromphardt
 Prashant Kshitij
 Joshua Alexander Kuminski §
 Youngkwan Kwak
 Henry Hin-Yuen Kwan ‡
 Juncelucan Lagda *
 Debrup Laha §
 Christopher Robert Landschoot §
 Cameron Michael Lanphere
 Jun Ki Lee
 Yu Hsuan Lee † TBP
 Martin Alexander Leff ‡ *
 Levi Li §
 David Liang ‡ TBP
 Yuxi Lin
 Zhi Lin
 Zhuo Nan Lin §
 William Wallace Marr †
 Nicholas Patrick McCahey † *
 John Paul McWhinnie § *
 George A. Melero *
 Mark Joseph Mercer
 James Joseph Metzger
 Mohamed Jafran Mohamed Jiffry
 Anthony Montero ◊
 Elizabeth Suyuan Moon § *
 Brian James Morris
 Ramana Nagasamudram
 Parthivi Narang *
 Corey Max Needle † TBP *
 Alexander John Negri §
 Gavin Wesley Neill
 Daniel Newins
 Thomas Anthony Noonan
 Brandon John Nunes ‡ *
 Samuel Odulaja
 Joseph Frank Oliver §
 Greg David Ostaszewski §
 Joseph Tyler Pace § *
 Zach Andrew Paufler
 Shankha Paul §
 Andrew Pennachi † *
 Jack L. Pilie *
 Brian Albert Pilski §
 Dennis Posheluk ‡
 Mark Joseph Reilly
 Garrett Michael Rice

David Benjamin Ritter § ◊
 Louis Anthony Rizzo § *
 Dwight Christopher Stanley
 Robinson Jr.
 Trish Anne Deguia Roque
 Robert Alan Rowe
 Caleb J. Saathoff § *
 Jared Salisbury
 Harrison Jared Schaffer
 Richard Kenneth Schlehr
 Adam Schultz
 Zachary Gordon Seaver
 Emily Marie Senay ‡
 Aaron W. Simpkins
 Leanne Marie Skrabacz
 Brian Smist †
 Kathryn Anne Sodaro
 Zachary Callan Speed
 Alexander Steuerwald §
 Benjamin K. Stortz †
 Michael Patrick Sundermier ‡
 Talwinder Singh Swarn Singh
 Joseph Paul Szabo
 Tyler John Szczesniak § *
 Daniel Ryan Szcwczyk §
 Abel Solomon Taye
 Caleb Taylor Thomas Likup §
 Samuel William Tedesco
 Omar David Torres
 Colin Trinh ‡ *
 Carter Daniel Twombly
 Zhan Wang
 Stephen G. Weinheimer
 Michael Taylor Wik
 Timothy Wolfe Wilko †
 Aric Todd Wilson
 Tina Zhang §
 Zhuangcheng Zheng
 Alex Zhitelzeyf

Combined Degrees

Recommending Candidates for Degrees

Liesl Folks
 Dean

Bachelor of Science / Master of Science in Computer Science and Engineering

February 2016

Scott Florentino †
 Nathan Ronca ‡ *

June 2016

Woodams R. Clark
 Jesse Daniel Freeman §
 Sunny Mistry ‡
 Mark Robert Starczewski Jr. § **
 Kun Yang

Bachelor of Science (Civil Engineering) / Master of Business Administration

September 2015

James Friedman

June 2016

Matthew Cuciti

Bachelor of Science (Industrial Engineering) / Master of Business Administration

June 2016

Fernando Galvan Rico §
 Michael L. Ronci ‡
 Michael James Stuber §

Bachelor of Science (Mechanical Engineering) / Master of Business Administration

June 2016

William Lloyd Bach §
 Raymond C. Chamberlin §
 Joseph Timothy Corcoran †
 Andrew Gerald Serwon §
 Christofilos Andrew Siderakis

Master's Degrees

Recommending Candidates for Degrees

Liesl Folks
Dean

Master of Engineering in Chemical Engineering

September 2015

Xiang Gao
Satya Popuri
Suman Samantray
Jiahui Wu

June 2016

William S. Evangelista II
Michael J. Potter
Ming Zeng

Master of Engineering in Civil Engineering

September 2015

Jared Evan Port

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Master of Science in Computer Science and Engineering

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Doctor of Philosophy in Biomedical Engineering

June 2016

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Jie Hu
Major Professor: Chang Wen Chen

Mahmoud Abo Khamis
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History of the School of Engineering and Applied Sciences

In celebrating this commencement, the School of Engineering and Applied Sciences (SEAS) marks over a half-century of educational and research excellence and service to the technical community, to New York State, and to society at large.

The Founding of the School of Engineering and Applied Sciences

Engineering courses were initially offered by the College of Arts and Sciences, which began granting a Certificate in Engineering in 1929. Early programs were established in engineering science, mechanical engineering, industrial engineering and electrical engineering. Then in 1946, one hundred years after the University at Buffalo was founded, the School of Engineering was established. The school was authorized to offer both bachelors and masters degrees. Departments of civil engineering and chemical engineering were added in 1958 and 1961, respectively. In 1962, the university joined the State University of New York (SUNY) higher education system and by 1967, the name had been changed to the Faculty of Engineering and Applied Sciences. One year later, aerospace engineering was added, and a comprehensive engineering school was achieved. An undergraduate program in engineering physics was added in 1985. The unit changed its name to the School of Engineering and Applied Sciences in 1989.

In 1998, a new department of computer science and engineering was formed by merging the computer science program from the College of Arts and Sciences with the computer engineering component of the department of electrical and computer engineering in SEAS. The environmental engineering program was established in 2000. In 2010, a new department of biomedical engineering was formed in collaboration with the UB Jacobs School of Medicine and Biomedical Sciences. In 2014, a new department of materials design and innovation was established, in collaboration with the College of Arts and Sciences.

SEAS has come far since 1946, when it first held courses in the newly dedicated Karr Parker Engineering Building. Parker Hall was immediately enlarged to accommodate traditional students and returning GIs intent on pursuing engineering careers after WWII. In the mid-70s to mid-80s, the school moved to five new buildings on the north campus: Bell, Bonner, Furnas, Jarvis, and Ketter Halls. Our newest building, Davis Hall, opened in 2011 and features an environmentally friendly design and construction. Together these buildings form an outstanding educational and research facility, comprising 275,000 square feet of laboratory and office space.

Faculty and Leadership: A Heritage of Vision and Talent

SEAS has enjoyed consistent success in large part because of its leadership. Over the course of its sixty-plus years, twelve distinguished educators have served as leaders of the school. In 1946, Paul E. Mohn became the first dean. His thirteen-year tenure as dean lent stability to the young school. Frederick H. Thomas served as acting dean from 1959–60. E. Arthur Trabant was dean from 1960–1966; Howard E. Strauss was acting dean from 1966–67. When the Faculty of Engineering and Applied Sciences became the administrative body of engineering at SUNY Buffalo, the head of the faculty was often referred to as the provost. F. Karl Willenbrock was provost from 1967–70; Joseph Bergantz was acting provost from 1970–71; and William Gill served as provost/dean from 1971–1977. George C. Lee took office as dean in 1978, and served in that post until 1995. In 1996, Mark H. Karwan became the school's sixth dean, followed by Harvey G. Stenger Jr. in 2006. Rajan Batta was the school's acting and interim dean in 2011–12, and in 2013, Liesl Folks joined SEAS as the school's eighth dean.

Our leadership and faculty realize the school's direction with the invaluable support of our dedicated staff, students, alumni, friends, industry and corporate partners. In addition to their dedicated teaching, research, and service, the faculty, which now numbers 165, have won prestigious awards, authored countless books and articles, and produced many patents for materials and techniques, all aiming to benefit humankind. More than 50 of our faculty have been elected as Fellows of engineering professional societies and 33 are National Science Foundation early career award winners. In the past year, three of our current faculty members were recognized with SUNY Chancellor's Awards for Excellence in Scholarship and Creative Activity. Many others hold SUNY distinguished professor titles.

Programs and Partnerships

The School of Engineering and Applied Sciences was an early innovator in reforming the traditional preparation of beginning engineers. The school has always valued interdisciplinary research and has structured itself to promote connections across disciplines that benefit undergraduate and graduate study, as well as to address important social needs like health care, personal security and recovery from natural disasters. SEAS is the home of such prominent interdisciplinary research and educational programs as Center for Multi-source Information Fusion (CMIF), Center for Unified Biometrics (CUBS), Center for Excellence in Information Systems Assurance Research and Education (CEISARE), and The Center for Industrial Effectiveness (TCIE), as well as a membership in the National Science Foundation Center for e-Design. Under UB's "E Fund" initiative, we engaged with our campus colleagues to develop research and educational programs that will have a high impact both inside and outside the university. These include Computational Data Science and Engineering (CSDE), Home Health and Well-Being through Adaptive Smart Environments (Home-BASE), Institute of Bridge Engineering (IBE), and Institute of Sustainable Transportation and Logistics (ISTL).

More recently, the campus was challenged to address the difficult problems and questions of our time through impactful, interdisciplinary research, education, and engagement. SEAS faculty have assumed leadership roles in these "Communities of Excellence," in particular, Global Health Equity and Sustainable Manufacturing and Advanced Robotic Technologies (SMART), as well as the newly established Research and Education in eNergy, Environment and Water (RENEW) institute. Our total research expenditures for the academic year 2014–2015 were \$58.5 million.

Historically, the School of Engineering and Applied Sciences' partnership with industry has been valuable and mutually rewarding. Students benefit from the professional interactions that our experiential learning programs provide, and faculty contribute to and gain valuable perspective from industry-sponsored research. Industry partners, meanwhile, benefit from access to a talented workforce and a well-trained knowledge base that provides them with a competitive edge in research and development.

A Proud Past, A Challenging Future

The School of Engineering and Applied Sciences is a world-class institution. Today's graduates join the ranks of over 30,000 alumni who have made their mark on the discipline, both in the academic world and in industry. Graduates live in 50 states and 65 countries around the world.

Like any great organization, the School of Engineering and Applied Sciences is continually evolving and stretching to meet new challenges. The more we achieve, the more we see there is still more to be done to rise to the challenge of training the next generation of great engineers while delivering world-changing advances in science and technology.

To keep up to date with the school, please visit us at engineering.buffalo.edu.



The First Commencement

The first commencement of The University of Buffalo was held at the First Presbyterian Church on Wednesday, June 16, 1847, when medical degrees were conferred on seventeen “young gentlemen.” The event was witnessed by “quite a large concourse of our citizens, as the occasion was a novelty here,” according to the newspaper report.

After an impressive and appropriate prayer, the Honorable Millard Fillmore, Chancellor, delivered an address dealing principally with a historical sketch of the rise and progress of education in Buffalo. Following music by the choir and conferring of degrees, Professor Hamilton spoke to the graduates. His address was described in a local newspaper the following day as a “feeling and beautiful effort complete with high sentiments, of sound morality and enlarged and pure philanthropy, which, if made the rule and guide of the young gentlemen to

whom it was more immediately directed, cannot fail of making them ornaments to their profession and to society . . . in thought, word and deed.”

After 16 weeks of study, which in those days was the entire medical preparation, each graduate was cited for having “specialized” in one of the following: Hernia, Empiricism, Remittant Fever, Pneumonities, Mania Potu, Puerperal Fever, Erythema, Anatomical Fractures, Typhoid Fever, Pneumonia, Acute Laryngitis, History of Physiology, Dyspepsia, Haemorrhagi, Inflammatory Croup, Pregnancy, Scarlatina.

The students had paid \$62.00 for all the lectures in the entire course, plus a \$3.00 matriculation fee, \$5.00 for a “demonstrator’s ticket,” and \$20.00 for a graduation fee. Board, including fuel and light, cost from \$2.00 to \$3.00 per week.

Academic Costume

The traditional costume worn at commencement exercise is a record of academic achievement of the individuals taking part. Its use, which originated at English and European universities during the twelfth and thirteenth centuries, came to the United States in 1754 with the founding of what is now Columbia University.

In 1895 the Intercollegiate Commission, a group of leading American educators, met at Columbia to draft a code which would serve to regulate the design of gowns and hoods for various degrees as well as to fix the colors that indicate the various faculties. This code has been adopted by most of the colleges and universities in America. It was revised in 1932 and again in 1959.

The level of degree held is indicated by the gown’s cut. Doctoral gowns have full sleeves which are round and open. Gowns worn by bachelors have long pointed sleeves, and those worn by masters have long, closed, somewhat fuller sleeves which reach nearly to the wearer’s knees. The arm goes through a slit, giving the appearance of short sleeves.

The color as well as cut of the gown varies. Although most doctoral gowns are black, in some cases their color is that of the university conferring the degree. The doctoral gown is trimmed in velvet; it has three two-inch bars on the sleeves and a five-inch border extending from the back of the neck down the two sides in front. Although usually black, the velvet may be of a color that indicates the

nature of the degree. For the degree of Doctor of Philosophy, the color is dark blue, engineers may also wear orange; for Doctor of Medicine, green; for Doctor of Dentistry, lilac; for Doctor of Education, light blue; for Doctor of Science, golden yellow; for Doctor of Law, purple; for Doctor of Social Work, citron, etc. Master’s and bachelor’s gowns have no facing.

The hood seems to have had a more practical origin. During the Middle Ages monks wore them to protect their shaved heads in the winter and as a container in which to collect alms. It is the most significant part of the academic dress. Its shape and size indicates the degree of the wearer, the color of the velvet border indicates the academic field, and the color of the lining indicates the institution granting the degree. The bachelor’s hood is three feet long and has a two-inch velvet border, the master’s is three and one-half feet long and has a three-inch border, and the doctor’s is four feet with a five-inch border. The State University of New York at Buffalo hood is lined with blue and gold stripes; orange signifies engineering.

The mortarboard cap has been conventionalized from the skull cap which was worn by monks of the twelfth and thirteenth centuries. The mortarboard is usually black. Tassels are worn over the left front quarter by degree holders; candidates wear the tassel over the right front quarter until the degree is conferred.

UB Alumni Association Letter



Dear Members of the Class of 2016,

Congratulations! Your hard work has brought you the knowledge, skills and confidence to take the next steps in your lives. Be as proud of your accomplishments as we are of you.

On behalf of the UB Alumni Association (UBAA), I welcome you to our family of UB alumni. Beginning this year, all UB graduates automatically become members of the Alumni Association. With more than 240,000 UB alumni around the world, there is power in these numbers—you will find fellow UB alumni wherever you go.

As you move forward, I encourage you to keep UB close. UBAA is here for you. We will help you stay connected through regular communication via email, At Buffalo (our quarterly magazine), and alumni chapter events across the U.S. and the world. We even have a brand new Young Alumni Program designed specifically to provide our new graduates with career help, volunteer opportunities and engaging social events.

To learn more about UBAA, the Young Alumni Program and the benefits and services available to you, plug into our vast network at buffalo.edu/alumni or contact the Office of Alumni Engagement at **1-800-284-5382** or ub-alumni@buffalo.edu.

Good luck and best wishes,

A handwritten signature in black ink that reads 'Mary Garlick Roll'.

Mary Garlick Roll (MS '88 & BS '84)
President, UB Alumni Association

P.S. Please make sure to keep UBAA informed when your email address changes, so you don't miss any special invitations or perks!

UB Alma Mater

Music by UB Students in 1903.
Lyrics adapted by UB Students in
2006 for contemporary use.

Verse 1:

*The pride of our spirit and tradition,
Our alma mater's truth and name declare.
Celebrate our history and wisdom,
O let us all prepare to sing her glory.*

Refrain:

*To Buffalo all hail to thee,
Noble and strong it's our university!
To blue and white pledge loyalty,
Singing I will always remember thee!*

Verse 2:

*We'll ever keep our standards high,
And sing UB's praises to the sky.
Receiving the finest education,
Our knowledge we impart unto the nations.*

(Repeat refrain)

Verse 3:

*Our friends we've made with ties that bind,
A union of our spirit, heart and mind.
Together we'll continue life's journey,
O may dear Buffalo forever be.*

(Repeat refrain)

UB Engineering and Applied Sciences Alumni Association Letter

Engineers of 2016,

Welcome to the club! Today, you join our 30,000-strong worldwide membership of the University at Buffalo Engineering Alumni Association. In the days surrounding commencement, you will rightfully hear many voices telling you about how your class is different, and your challenges unique. It's true. The world is a dynamic place and the solutions the world will beg of you will be unlike any previously posed. After all, that is our job. We engineers find solutions to unsolved problems and our role is nothing less than essential to the continued progress of humanity. If that sounds like a big deal, it's because it is. However as you know, your solutions to your unique problems will be based on the works of engineers and scientists who have preceded you and your own work will become the foundation for your successors. The story of societal progress is the story of youth and experience working together.

Expectations can be daunting. Human instinct can be discouraging and others burdened by the baggage of "the way it's always been done" may say it's impossible, but your greatest success will be determined by your ability to blend the experiences of your predecessors with the wide eyed ambition of a young grad. Certainly your student experience came with its own challenges, and professional life will too. Professionally, the balance between humility and ambition is absolutely essential to ultimate success.

In addition to the world class technical education we received here at UB, I hope that you'll take appreciation for the faculty and staff with you on your next step. It's impossible for them to have taught you everything they've learned in their careers, so do not lose touch. As teachers, they take pride in seeing the growth of the careers they've fostered for a few years here at Buffalo. You are the youth, they are the experience. The benefits go both ways; our successes fuel their ambition as well.

If like us, you feel that the University at Buffalo School of Engineering and Applied Sciences has had a significant positive impact on your life and future, please keep in touch with the Engineering Alumni Association. At the UBEEA, we too thoroughly enjoy celebrating the successes of our fellow alumni, just as we are with you today at commencement. If the next step in your life's journey takes you someplace unfamiliar, drop us a line. With 30,000 alumni worldwide, wouldn't it be nice to have someone in your new home who can relate to your student experiences, show you where the good wings are, and go catch a Buffalo game on TV? If you're staying in Western New York, drop us a line. We are present and active on campus and always looking to do more to benefit the students. Whether near or far, great or small, your involvement with the UBEEA will help serve those who fill the lecture halls you vacate today. To that end, no perspective is more relevant than that of the recent graduate. To learn more about the UBEEA, contact Bethany Mazur: bl12@buffalo.edu, the UBEEA Board of Directors: ubseas@gmail.com, or visit our website at: engineering.buffalo.edu/ubeea.

With best wishes on behalf of the University at Buffalo Engineering Alumni Association,



Kurt W.R. Bessel (BS AE 2008, MS ME 2009)
President, University at Buffalo Engineering Alumni Association

Congratulations to the graduating class of 2016!