



2023



**University
at Buffalo**

The State University
of New York

ONE HUNDRED AND SEVENTY-SEVENTH ANNUAL



SCHOOL OF ENGINEERING AND APPLIED SCIENCES
COMMENCEMENT
GRADUATE CEREMONY 1

Saturday

May 20, 2023

9:00 AM

Alumni Arena

North Campus

Kemper E. Lewis

Dean



Program

Processional

Selections from Pomp & Circumstance
by Edward Elgar

Opening Declaration

Frederick W. Stoss
*Mace Bearer, Chair of the Faculty Senate
and Librarian*

Welcome

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

National Anthem

Emory Redfearn
Music Theatre, BFA'23

Introductions

Associate Dean Errington

Greetings

Satish K. Tripathi
University President

Remarks

Kemper E. Lewis
*Dean of the School of Engineering and
Applied Sciences*

Chancellor Charles P. Norton Medal

Marcus Yam
*Los Angeles Times Foreign
Correspondent and Photographer*

Jeremy M. Jacobs
*Chairman of the University at
Buffalo Council*

Student Address

Vidushi Sharma
Computer Science and Engineering, MS'23

Conferring of Degrees

President Tripathi

Alumni Welcome

Jordan Walbesser, BS'07, JD'10
*President, UB Engineering and Applied
Sciences Alumni Association*

Alma Mater

Emory Redfearn, BFA '23

Closing Declaration

Frederick W. Stoss

Recessional

Triumphal March from Aida
by Giuseppe Verdi

The UB Mace

The mace is part of the medieval traditions of the university. It was originally a weapon used to protect kings, but later became a symbol of enlightened authority.

The UB mace is designed to tell the story of UB and the Niagara Frontier. Fashioned by silversmith Hudson Roysher 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.



SUNY Trustee and UB Officials

Eunice Ashman Lewin

Member of the State University of New York Board of Trustees



President and co-founder of Impacto Consulting Associates, Eunice Ashman Lewin joined the SUNY Board of Trustees in February 2010. She helped reinstate the Student Life Committee, which she co-chairs. In

this role, she spearheaded the creation of the Food Insecurity and the Mental Health task forces. Lewin serves on the board's Executive Committee and the committees for academic affairs, communications and external affairs, community colleges, and academic medical centers and hospitals.

A former commissioner of the Niagara Frontier Transportation Authority, Lewin was a founding member of the Roswell Park Alliance and a board member of the Buffalo Urban League and Hispanics United of Buffalo. She is a member of the Hispanic Women's League and the Greater Buffalo Racial Equity Roundtable. Most recently, Lewin was named co-chair of the 5/14 Remembrance Committee to honor the mass shooting victims of the May 14 tragedy in East Buffalo.

A retired bilingual social worker for the Buffalo Board of Education, she is a champion for STEM education.

Born in Guantanamo, Cuba, Lewin immigrated to the U.S. with her family in 1967. She holds a bachelor's degree in sociology from Marymount Manhattan College and master's degrees in American and Puerto Rican studies, and in educational administration, from UB.

Jeremy M. Jacobs

Chairman of the University at Buffalo Council



Jeremy M. Jacobs was appointed to the UB Council in 1997; in 1998, then-Gov. George Pataki named him chairman. Jacobs is chairman of Delaware North, a global hospitality company with customers in the United States, Australia,

New Zealand and the United Kingdom. The company's operations include food and retail at airports and sports venues, sports facility ownership and management, operations of parks and major tourist attractions, hotel ownership and management, gaming operations and fine dining.

Jacobs owns the Boston Bruins and serves as chairman of the National Hockey League's Board of Governors. In 2018, he received the sport's highest honor when he was inducted into the Hockey Hall of Fame.

An alumnus of UB's School of Management and Harvard Business School's Advanced Management Program, Jacobs holds honorary doctorates in humane letters from UB, Canisius College, Niagara University and Johnson & Wales University. In 2015, his family donated \$30 million to advance UB's medical school, which was renamed the Jacobs School of Medicine and Biomedical Sciences.

Jacobs has served Western New York for more than four decades with his business expertise and philanthropic leadership, and Delaware North has received multiple awards for social responsibility, community service and environmental stewardship.

A longtime friend and supporter of UB, Jacobs has served as chairman, trustee and director of the UB Foundation, chairman of the President's Board of Visitors and adviser to the School of Management.

Satish K. Tripathi

University President



An internationally distinguished researcher and higher education leader, Satish K. Tripathi, PhD, is the University at Buffalo's 15th president.

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. A fellow of the IEEE and the AAAS, he has published more than 200 scholarly papers, supervised more than 30 doctoral and postdoctoral students and served on program committees of numerous international conferences.

Tripathi graduated at the top of his class from Banaras Hindu University (BHU). He holds a master's degree and a doctorate in computer science from the University of Toronto, as well as master's degrees in statistics from the University of Alberta and BHU. He has received honorary doctorates from the Indian Institute of Information Technology, Allahabad, and Brock University in Canada.

Tripathi serves on the College Football Playoff Board of Managers and chairs the Internet2 board of trustees. Previously, he was chair of the Mid-American Conference Council of Presidents and on the boards of NCAA Division I, NCAA Board of Governors, the Association of American Universities, the Association of Public and Land-Grant Universities and the Council for Higher Education Accreditation. A past member of the Reimagine NY Commission, he was the inaugural co-chair of the Western New York Regional Economic Development Council.

A. Scott Weber

*Provost and Executive Vice President
for Academic Affairs*



As provost and executive vice president for academic affairs, A. Scott Weber, PhD, serves as the university's chief academic officer, providing leadership across the academic enterprise including

research, scholarship and creative activities; undergraduate, graduate, professional and international education; faculty development; diversity and inclusion initiatives; and university libraries. Weber is leading the implementation of the university's vision to be recognized among the top 25 public research universities in the nation, focused on building on UB's strengths to achieve new levels of excellence in research, scholarship, education, clinical care and engagement.

A member of UB's faculty since 1983, Weber is an innovative scholar and teacher and former chair of UB's Department of Civil, Structural and Environmental Engineering. During his time as chair, the department rose significantly in national rankings. Weber has held progressively responsible administrative roles at UB, including senior vice provost and vice provost for academic affairs, where he was instrumental in the creation of the UB Curriculum and the nationally recognized Finish in 4 program; and vice president for student life, where he focused on enhancing the student experience on campus and promoting overall student wellness.

Weber earned bachelor's and master's of science degrees in civil engineering from Virginia Polytechnical Institute and a PhD in civil engineering from the University of California, Davis.

Graham L. Hammill

*Vice Provost for Academic Affairs and
Dean of the Graduate School*



A well-regarded humanities scholar, Graham L. Hammill, PhD, is the University at Buffalo's vice provost for academic affairs and dean of the Graduate School.

A professor in the UB Department of English and former department chair, Hammill focuses his research on early modern British literature, political thought and the history of sexuality. He is the author of "Sexuality and Form: Caravaggio, Marlowe, and Bacon" (2000) and "The Mosaic Constitution: Political Theology and Imagination from Machiavelli to Milton" (2012), and the editor of three essay collections. His articles have appeared in numerous journals, and he currently serves on the editorial boards of *Postmodern Culture* and *The Spenser Review*.

Hammill currently serves on the board of directors of the Council of Graduate Schools as chair. He has previously served as president of the International Spenser Society (2014-2016), chair of the MLA Executive Committee for the Division on Renaissance Literature (2015) and chair of the MLA Executive Committee on Psychological Approaches to Literature (2008-2009). He is the recipient of many awards and grants, including a UB Humanities Institute Research Fellowship (2012-2013) and a Kaneb Center Award for Excellence in Teaching from the University of Notre Dame (2006).

Before arriving at UB in 2008, Hammill spent 13 years as a professor of English at the University of Notre Dame. A Louisiana native, he earned his PhD from Duke University.

Kemper E. Lewis

*Dean of the School of Engineering and
Applied Sciences*



Kemper E. Lewis, PhD, MBA, and dean of UB's School of Engineering and Applied Sciences, is a global leader in engineering design, system optimization, and advanced manufacturing. He served as chair of the Department of Mechanical and Aerospace

Engineering prior to being named dean in 2020; and was the inaugural Moog Professor of Innovation, a role he held until 2022.

Lewis is also the director of UB's Community of Excellence in Sustainable Manufacturing and Advanced Robotic Technologies (SMART), an initiative that harnesses the strengths of faculty across the university to develop advanced manufacturing and design processes, including autonomy, intelligence, and materials technologies.

He is a Fellow of the American Society of Mechanical Engineers (ASME), and has served on the National Academies Panel on Benchmarking the Research Competitiveness of the United States in Mechanical Engineering. He has published over 200 refereed journal articles and conference proceedings and has been principal or co-principal investigator on grants totaling more than \$33 million.

He has received numerous awards in recognition of his teaching and research excellence from several professional societies, including ASME, the Society of Automotive Engineers, the American Society for Engineering Education, and the American Institute of Aeronautics and Astronautics.

Lewis joined UB in 1996. He earned a BS in mechanical engineering and a BA in mathematics from Duke University, his MS and PhD in mechanical engineering from Georgia Tech, and an MBA from UB.

Chancellor Charles P. Norton Medal

Marcus Yam, '06

Los Angeles Times Foreign Correspondent and Photographer



A University at Buffalo alumnus and a three-time Pulitzer Prize-winning photojournalist, Marcus Yam is a roving foreign correspondent and photographer for the Los Angeles Times. Yam came to UB from his home in Kuala Lumpur, Malaysia, and graduated in 2006 with a bachelor's degree in aerospace engineering. Although he aspired to become a NASA astronaut, he discovered his passion for photography during a stint at UB's student newspaper and an internship with the Buffalo News.

In 2022, Yam won the Pulitzer Prize for breaking news photography for images documenting the U.S. departure from Afghanistan. In 2016, he was part of the L.A.

Times' Pulitzer Prize-winning news team that covered the San Bernardino, Calif., terrorist attack. In 2015, as a photojournalist for the Seattle Times, he shared the Pulitzer for breaking news reporting of the deadly landslide in Oso, Wash.

Yam's conflict reporting is widely recognized. In 2023, he was named a recipient of the Robert Capa Gold Medal for his courage and enterprise while photographing the devastation of the war in Ukraine with nuance and poetry. Yam is also a two-time recipient of the Robert F. Kennedy Human Rights Journalism Award, including in 2019 for his unflinching photos documenting the everyday plight of citizens during deadly clashes in the Gaza Strip.

His work has also earned him an Emmy Award for News and Documentary, a World Press Photo Award, a DART Award for Trauma Coverage, a Scripps Howard Visual Journalism Award, Picture of the Year International's Newspaper Photographer of the Year Award, the Society of Professional Journalists' Sigma Delta Chi Award, National Headliner awards, the Society of Publishers in Asia Award and the Alfred I. duPont-Columbia University Award. Throughout his career, Yam has brought his viewers to the frontlines of conflict, struggle and intimacy. He credits his analytical, technical approach to photography to his UB education in engineering.

UB Chancellor Charles P. Norton Medal Recipients

1925	Charles Henry Brent	1960	Alex F. Osborn	1992	M. Robert Koren*
1926	Walter P. Cooke	1961	Charles H. Diefendorf	1993	Terry Anderson
1927	Frank B. Baird	1962	Lewis G. Harriman Sr.	1994	D. Bruce Johnstone
1929	John J. Albright	1963	George E. Moore	1995	Eleanor V. Millonzi
1931	Chauncey J. Hamlin	1964	Albert G. Butzer	1996	Robert E. Rich Sr.
1932	Frank A. Hartman	1965	Frank C. Moore	1997	John P. Naughton
1933	F. Park Lewis	1966	Edwin F. Jaeckle	1998	Ruth Kahn Stovroff
1934	Daniel J. Kenefick	1967	Seymour H. Knox	1999	Robert Creeley
1935	Katharine Cornell	1968	Clifford C. Furnas		Eli Ruckenstein
1936	Alfred H. Schoellkopf	1969	Gordon Bunshaft	2000	M. Dolores Denman*
1938	Edward B. Green	1970	Lauriston L. Scaife		Philip B. Wels
1939	David Lawrence	1971	Alfred H. Kirchhofer	2001	Paul W. Kurtz
1940	John Lord O'Brian	1972	Whitworth Ferguson	2002	Lawrence Jacobs
1941	Charles B. Sears	1973	Charles R. Diebold	2003	William R. Greiner
1942	Thomas B. Lockwood	1974	Gordon M. Smith	2004	Steven B. Sample
1943	George W. Thorn	1975	Ralph W. Loew	2005	Luiz F. Kahl
1944	Charles E. Burchfield	1976	David J. Laub	2006	Reginald B. Newman II
1945	Nelson G. Russell	1977	Joseph Manch	2008	Robert M. Bennett
1946	William J. Donovan	1978	William C. Baird	2009	1958 University at Buffalo Football Team
1947	Lawrence D. Bell	1979	Manly Fleischmann		Thomas R. Beecher Jr.
1948	Louis L. Babcock	1980	Daniel A. Roblin Jr.	2010	Esther S. Takeuchi
1949	James McCormick Mitchell*	1981	Hermann Rahn	2011	JoAnn Falletta
1950	Ernest Witebsky	1982	Howard T. Saperston Sr.	2013	John B. Simpson
1951	Samuel P. Capen	1983	Robert I. Millonzi	2014	Ralph Wilson Jr.*
1952	Edward H. Letchworth	1984	James M. Demske	2015	Robert G. Wilmers
1953	Edward H. Butler	1985	Charles S. Desmond	2017	Mark J. Czarnecki*
1954	Daniel W. Streeter	1986	Herbert A. Hauptman	2019	L. Nelson Hopkins
1955	A. Conger Goodyear	1987	Robert Guthrie	2020	Mary Wilson
1956	E. Marguerite Gane	1988	Denise A. Roche	2021	Thomas A. Russo
1957	Melvin H. Baker	1989	Leslie Fiedler	2022	Crystal D. Peoples-Stokes
1958	Julius W. Pratt	1990	Wilson Greatbatch		
1959	Josef Krips	1991	Barber B. Conable Jr.		

** Awarded posthumously*

Dean's Award for Achievement

Dr. Pyrak-Nolte will be recognized at Graduate Ceremony 2

Laura J. Pyrak-Nolte, BS'81

Distinguished Professor of Physics and Astronomy, Purdue University



Each year, the School of Engineering and Applied Sciences 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 Laura J. Pyrak-Nolte, a geophysicist and Distinguished Professor of Physics and Astronomy at Purdue University.

Pyrak-Nolte earned a Bachelor of Science in Engineering Science from the University at Buffalo in 1981, a Master of Science in Geophysics from Virginia Tech in 1983, and a Doctor of Philosophy in Materials Science and Mineralogy from the University of California, Berkeley in 1988, where she worked with the late Dr. Neville G. W. Cook, distinguished expert on mining and the mechanical behavior of rocks.

In 1992, Pyrak-Nolte was appointed an assistant professor at the University of Notre Dame, Department of Civil Engineering and Geological Sciences. She joined Purdue in 1997 as an associate professor, was promoted to full professor in 2001, and was appointed a Distinguished Professor of Physics and Astronomy in 2018.

Inspired by her early work in rock mechanics, Pyrak-Nolte continued to study mechanical discontinuities in rocks. Her research considers the mechanisms that underpin seismic processes in complex fractures. She looks to understand the evolution of fractures, how seismic waves interact with fractures and how the geometry of fractures impacts the flow of fluids, and she developed a scaling relationship between fluid flow and elastic stiffness.

To better understand these fractures, Pyrak-Nolte makes use of 3D printing to create synthetic rock samples. She has shown that studying the fracture processes of synthetic rock can help to predict the behavior of rocks in the real world.

Throughout her career Pyrak-Nolte has worked with the United States Department of Energy. She has been the president of the American Rock Mechanics Association and the International Society for Porous Media and is the Vice President of North America for the International Society for Rock Mechanics and Rock Engineering (ISRM). In 2018, Pyrak-Nolte delivered the 21st ISRM online lecture, the first woman to be invited to deliver this prestigious lecture.

For her scholarship, Pyrak-Nolte has received numerous awards and was elected as a member or fellow of several organizations, including the National Academy of Engineering in 2021. The University at Buffalo is honored to recognize Laura Pyrak-Nolte as an alumna 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

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
- 1999**
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
- 2016**
Norman Hayes, BS EE & BA CS 1980
Director of ASIC Engineering, Analog Bits
- 2017**
Ann Wegrzyn, BS IE 1985, MBA 1990
CIO, National Fuel Gas
- 2018**
Gina Lee-Glauser, BS MAE 1982, MS MAE 1988
Vice President for Research and Scholarship, Clarkson University
- 2019**
Jonathan Watts, P.E., BS IE 2000, BS CIE 2003
Vice President, Watts Architecture and Engineering
- 2020**
Robert G. Harrison, P.E. BS ME
Vice President Engineering and Construction
Transmission Developers, Inc.
- 2021**
John K. Schneider, PhD EE '90
Vice President of Technology for Qualcomm
- 2022**
Dinah Gueldenpfennig Weisberg, BS '87
Chief Executive Officer and President, REDCOM Laboratories Inc.

Student Speaker

Vidushi Sharma

Computer Science and Engineering



Vidushi Sharma of Punjab, India graduates with a Master of Science in Computer Science and Engineering. Vidushi currently works as a Software Engineer at Amazon Web Services in Seattle and has previously worked as a Senior Site Reliability Engineer at VMware. During her master's degree, Vidushi served as a graduate teaching assistant for the course MGS 314 Applied Business

Programming, an introductory programming course offered by the School of Management focusing on business applications and problem solving. Vidushi is a life-long learner who enjoys exploring new technologies.

Alumni Speaker

Jordan Walbesser

President, UB Engineering and Applied Sciences Alumni Association



Mr. Walbesser is a proud University at Buffalo graduate with degrees in both computer engineering (BS '07) and law (JD '10). Starting in telecommunications at Intel, Jordan has worked with various companies on projects ranging from healthcare to technology transfer. After attending law school, Jordan worked as an associate at a private law firm focusing on intellectual property,

contracts, licenses, privacy, and technology. Throughout his legal career, he developed an expertise for working with entrepreneurs and startups around the world. He counts many of Buffalo's premier startups as former clients and remains active in the local startup community. Jordan is currently in-house counsel for Mattel where he handles strategic partnerships, intellectual property, software development, and other technology matters. Jordan joined the UBEEA board in 2016 as a way to give back. Now as president, Jordan hopes to expand the mutually beneficial relationship between the School of Engineering and its global alumni community in order to support future engineers at UB.

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.

School Leadership and Distinguished Faculty

Dean

Kemper E. Lewis
Dean

Associate Deans

Rajan Batta
*Associate Dean for Faculty Affairs and
Diversity, Industrial and Systems Engineering*

Jeffrey R. Errington
*Associate Dean for Undergraduate
Education, Chemical and Biological
Engineering*

Moises Sudit
*Associate Dean for Research and Graduate
Education, Industrial and Systems
Engineering*

Christine A. Human
*Associate Dean for Accreditation and Student
Affairs, Civil, Structural and Environmental
Engineering*

Department Chairs

Jonathan P. Bird
Electrical Engineering

Francine Battaglia
Mechanical and Aerospace Engineering

James N. Jensen
Engineering Education

Victor L. Paquet
Industrial and Systems Engineering

Alan J. Rabideau
*Civil, Structural and Environmental
Engineering*

Krishna Rajan
Materials Design and Innovation

Mark T. Swihart
Chemical and Biological Engineering

Albert H. Titus
Biomedical Engineering

Jinhui Xu
Computer Science and Engineering

SUNY Distinguished Professors

Stylios T. Andreadis
Chemical and Biological Engineering

Rajan Batta
Industrial and Systems Engineering

Michel Bruneau
*Civil, Structural and Environmental
Engineering*

Michael C. Constantinou
*Civil, Structural and Environmental
Engineering*

John Crassidis
Mechanical and Aerospace Engineering

Amit Goyal
Chemical and Biological Engineering

Venugopal Govindaraju
Computer Science and Engineering

Quanxi Jia
Materials Design and Innovation

David A. Kofke
Chemical and Biological Engineering

Vladimir Mitin
Electrical Engineering

Paras Prasad
Electrical Engineering

Chunming Qiao
Computer Science and Engineering

Krishna Rajan
Materials Design and Innovation

Mark T. Swihart
Chemical and Biological Engineering

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

SUNY Distinguished Teaching Professors

Mark H. Karwan
Industrial and Systems Engineering

Carl R. Lund
Chemical and Biological Engineering

Joseph C. Mollendorf
Mechanical and Aerospace Engineering

Johannes M. Nitsche
Chemical and Biological Engineering

School of Engineering and Applied Sciences Dean's Advisory Council

Michael J. Cadigan*, Chair
Chief Quality Officer, GlobalFoundries

Russell L. Agrusa*
Founder, President and CEO, ICONICS, Inc. (Retired)

Paul Ameis*
Chief Operating Officer, VanDeMark Chemical, Inc.

Ron Benczkowski*
Vice President-Engineering, Moog, Inc., Space and Defense Group

Julie Cercone*
Information Security Professional – Lead Analyst, Citi

James Chou*
Start-up Technology Executive

Daniel D'Angelo, P.E.*
Principal Civil Engineer, Applied Research Associates

Dennis Elsenbeck*
Head of Energy and Sustainability, Phillips Lytle LLP Energy Consulting Services

Judy Feldman
Executive Vice President, Chief Information Officer, Value Centric, an IQVIA company (Retired)

Mark Glauser*
Professor Emeritus, Mechanical and Aerospace Engineering, College of Engineering and Computer Science, Syracuse University

Karianne Gomez*
Vice President, Lead Client Partner, Genpact

Bill Harris
Director, Innovation Advisory Partners

Cynthia A. Hoover*
Executive Director, Linde Engineering Americas

Rob Jacoby*
Consultant to the Energy Industry and former Enterprise Category Manager, Royal Dutch Shell

Joseph F. Kessler*
Executive Vice President, Chief Operating Officer, New York Power Authority

Steve Krenser*
CFO, Alkuri Global Acquisition Corp.

Anil Kshirsagar*
Executive Chair, CAPIOT Software, Inc

Mike Kurdziel*
Principal Fellow and Engineering Director for the Chief Engineering Systems and Technology Group, L3Harris Technologies

Gina Lee-Glauser*
Vice President for Research, Syracuse University (Retired)

Mark Santoro*
Principal Engineering Fellow, Hardware Engineering Center, Raytheon Intelligence and Space

Ashish Shah*
Vice President of Research and Development, Viant Medical

Alice Smith
Joe W. Forehand/Accenture Distinguished Professor of the Industrial and Systems Engineering Department, Auburn University

Stephen E. Still*
Professor of Practice, Institute for Sustainable Transportation and Logistics, University at Buffalo

Subbarao Vanka*
President, NW Engineering Consultants, Inc.

Chris Wan
Founder, Dyno Group Inc.

Jonathan Watts, P.E.*
Director of Operations, Nelson Nygaard

Jim Wehrfritz*
Executive, Exxon and ExxonMobil (retired)

Candace Yano
Kallbach Professor of Business Administration, Morris Chang Chair in Management of Technology Innovation, University of California, Berkeley

*School alumna/alumnus

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 15, 2023, and upon such others as may meet the requirements of their respective degrees. Candidates are listed according to actual date of degree conferral (August 2022, February 2023 and June 2023).

Academic Recognition Items

The Gold Cord

This cord is awarded to bachelors degree recipients who are graduating with Latin honors.

The Grey and Red Stole

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

The White Stole

This stole was received by graduating members of Tau Beta Pi, an academic honor society representing the entire engineering profession.

The SUNY Chancellor's Medallion

This medallion was presented to recipients of the SUNY Chancellor's Award for Student Excellence. They were selected for this award based on their academic excellence and extracurricular involvement.

The WNY Prosperity Fellowship Medallion

This medallion was received by graduating WNY Prosperity Fellows. They were selected for this fellowship based on their commitment and demonstrated potential to positively impact WNY's economic development and sustainability.

Non-Academic, University-Wide Recognition Items

The Kente Stole

This 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

This tassel was received by students who participated in the Lavender Ceremony, celebrating achievements of graduating students who identify with the Lesbian, Gay, Bisexual, Transgender and Queer community at UB.

The Red, White and Blue Cord

This cord is being worn by graduating UB students who are reservists, members of the National Guard, newly commissioned officers or veterans of the United States armed forces.



Master's Degrees

Recommending Candidates for Degrees

Kemper Lewis
Dean

Master of Engineering in Engineering Management

August 2022

Amit Blonder
Jared Patrick Bosinski
Corey James Brunet
Ryan Patrick Cribbin
Porfirio Del Toro
Danielle Marie Farabell
Melina Guida
Matthew Frank Lowden
Helen Elizabeth Moore
Marcus William Russo
Maria Santodonato
Caleb I. Walters

February 2023

Zohaib Ali Alvi
Kira Abigail Andrade Solano
Alejandro Diego Benitez
Aaron Louis Bonham
Shaun Thomas Boyle
Cheng Chang
Albert Chen
Ikechukwu Chima
Alan Chuen
Christopher Todd Covell
John M. Dignam
Andrew Willey Dodd
Apoorva Nagaraj Doddamani
Luca Franco Belga
Graham B Frazer
Adin Fuchs
William John Gannon Jr
Fady Gerges
Angel Jersae Gonzalez Salazar
Connor Heald
Jeff Huang
Jean B. Joseph
Kayla Marie Joseph

John Henry Kehoe VI
Emily Mildred Fil Koehler
Mark J. Mahan Jr.
Alexander Marino
Kaden James Marvin
Benjamin McComb
Akhilesh Nampalli
Rishil Mukesh Patel
Erin Peabody
Chandra Mouli Polavarapu
Kristen Taylor Ross
Michael P. Schreiner
Sasi keerthana Sivakumar
Alexander Steuerwald
John Samuel Sturman
Raymond Wang
Zeqing Wang
James Andrew Wiczorek
Monika Reddy Yempada
Wilhelm Abraham van Rooyen

June 2023

Alwareed Abdellatif
Nii Ajete
Mirka Arevalo
Tyler John Bellitto
Bradley M. Bridges
Yob Cimato
Mark Coon
Rocco G Corbisiero
David Andrew Darling
Amiya Debnath
Byron Dichoza
Sean Philip Dineen
Kathryn Doran
Timothy John Fulton
Matthew Benjamin Jackson
Dan LaPietra
Matthew Menegay
Chelsea Nowicki
Sophia Polosky
Maria Fernanda Santana Hernandez
Angela Marie Schuler
Bethany June Siau
Frank Vallecillo-Gallo
Danny Zaatari

Master of Science in Aerospace Engineering

August 2022

James Bilello
Liam Field
Christopher Charles Harley
Ashraf Hossain
Danielle Johnson
Thomas Andrew Kunkel
Daniel Wilkinson

February 2023

Simon Danilov
Allison Gardener
Andrew Gideon
Cameron Mitchell Grace
Michael Orłowski
Kishan Patel
Sri Sai Prakash Reddy
Dakota John Rowehl

June 2023

Ethan D. Ackerman
Mikel Aghachi
Leif Berg
Nicholas Deitrich
Josh Duell
Isa Gan
Myles Laurent Geise
Shane Laibach
Jared McMahon
Antonio Ramon Montes
Alden Noel
Sara M. O'Duffy
Kenneth Fai Poon
James Roetzer
Jiaxumo Zhang
Zachary Joseph Zumbo

Master's Degrees

Master of Science in Biomedical Engineering

August 2022

Alyssabeth Amber Czajkowski
Jai Charudatta Guruji
Nathaniel D Gyorog
Neha Suhas Ingale
Salik Inayat Khan
Mahamed Sheekhnuur
Yiting Song

February 2023

Shivani Acharya
Pooja Rajendra Bhandiwad
Elizabeth Karen Coley
Sovannrith Em
Smriti Mohan Shetty
Stephen Curtis Simonelli
Aruran Wigneswaran

June 2023

Shahad Ahmed Alazzawi
Adarsha Bhuvana Chandran
Eaint Than Sin Cho
Cianna Marie Currie
Shubham Kishor Dalvi
Mathew Fiel
Erin Elizabeth Giangreco
Jake Graham
Yang Jiao
Belvin Bobby Nedumthakady
Erik Nimmer
Sanchiti Patil
Roman DeMatteo Price
Praditi Narendra Raut
Briana A. Santo
Jiaheng Sun
Dennis Joseph Swetz
Alexander Gregory Wisniewski

Master of Science in Computer Science and Engineering

August 2022

Sumanth Reddy Adupala
Ishita Subhash Aggarwal
Teja Reddy Alla
Abhishek Attuluri
Yuyang Bai
Nikhil Bandari
Saketh Bandaru
Naveen Kumar Bandarupally
Harshad Arun Barapatre
Jeevan Sagar Batana
Aryaka Bhakta
Vishnupriya Bollam
Priyanka Chaganti
Siri Chandana Reddy Chemerla
Sai Teja Cherukuri
Jeevana Chintapalli
Steve Choorakkal Mathews
Varshith Reddy Danda
Harikanth Dasoji
Denver Elton Dsouza
Radhakrishna Mohan Eadara
Bodhith Edara
Bharath Gangishetti
Saideep Ganireddy
Dileep Garimella
Supraja Ghattamaneni
Sai Jayanth Madhav Gollapinni
Anushna Gowreddygari
Shiva Kumar Reddy Itikala
Madhuri Jonnalagadda
Kaushik Reddy Kadapakonda
Mounisha Kallepalli
Bhargav Sai Kantipudi
Rahul Reddy Karumuri
Manoj Reddy Kesireddy
Roshan Vivek Khatri
Venkata Siva Naga Sai Ara Kollipara
Yashwanth Korla
Praneeth Sai Kotha
Sai Sravan Kothacheruvu
Teja Reddy Kothwal

Venkata Subramanya Krishna Chaitanya
Kuruganty
Ruthvik Ledalla
Sai Kiran Madhavaram
Soma Naga Venkata Sai Anv Motamarri
Shiva Kumar Mukkapati
Madhukar Reddy Musku
Akhil Nalmas
Kiranmai Namburu
Ujwal Sri Harsha Orchu
Sai Poojitha Pabbathireddy
Sai Kiran Pantra
Srikar Panuganti
Krishna Prasad Porandla
Sakesh Pusuluri
Sai Ravi Chandra Ragampudy
Shreya Reddy Ragireddy
Rahul Ramesh
Yash Rathi
Lalith Sai Sakamuri
Siva Kumar Samatham
Sai Rama Tejaswini Sana
Alekhya Sarabudla
Shreya Sathyan
Shri Vignesh Senthil Kumar
Shubhanshu Garg
Atul Arvind Singh
Shraddha Singireddy
Bhavyasai Survepalli
Jinyi Tao
Saathvik Thandra
Mythreyee Tulugu
Vinay Venkat Manikant Urlam
Nikhil Naresh Vatwani
Gautam Veldanda
Srilaakshmi Velpuri
Raksha Vishwanath
Varshith Vootla
GuruDev Yalagala
Lakshmi Chandana Yarramreddy
Akhil Reddy Yeredla
Vaishnavi Yerrapothu
Sai Sriram Yerubandi
Jie Zhang

February 2023

Archit Aggarwal
Sumeet Milind Aher
Saqlain Naveed Ahmed
Sri Sai Omkar Akilla
Rithvik Alahari Venkata Sai
Bhavan Anand
Srinand Andey
Palash Anjania
Purushothaman Aravamuthan
Muskan Arora
Brinda Ashar
Venkata Sai Rohit Ayyagari
Sahith Bachina
Yaswanth Badugu
Divesh Bakshani
Aravind Balakrishnan
Oviyaa Balamurugan
Shubhangi Balasubramanian
Amartya Banerjee
Utkarsh Bansal
Aniket Ashok Bhamani
Mihir Vinit Bhansali
Aniket Deo Priya Bharti
Prashant Bhatt
Ashutosh Shailesh Bhawsar
Tarun Bhuthapuri
Prateek Bhuwania
Pramod Bikkina
Vishwa Teja Bingi
Neha Bisht
Suraj Bodapati
Venkata Krishna Bharadwaj Boinepally
Carolyn Joseph Bose
Aditya Bothra
Julius Breindl
Tianyu Cao
Geetartha Chanda
Balasubramanian Chandrasekar
Harish Chandrasekaran
Krishnakumar Chandrasekaran
Timothy Bradford Chase Jr
Nupur Atul Chauhan
Vishal Chaurasia

Pratik Chavan
Boyu Chen
Chia Chen Chen
Gang Cheng
Asheeque Chericham Veettill Maliyak
Sai Srinivas Chetti
Kshitij Subhash Chhajed
Isha Chhawchharia
Siddharth Purandar Chillale
Abilash Chittrarasu
Priyank Chopde
Siddhesh Chourasia
Benjamin Conrow-Graham
Saloni Bhadreshbhai Contractor
Haoyang Cui
Dexson John DSouza
Shanmukhi Priya Dalijet
Rick Das Gupta
Anindita Deb
Mahesh Ramesh Desai
Nikita Satyajit Desai
Janhavi Kiran Desale
Akash Deshmukh
Manor Rajan Deshmukh
Atharva Avinash Deshpande
Saikrishna Dirisala
Parth Jignesh Dixit
Saket Dixit
Likhitha Dodda
Nilesh Mukesh Dogra
Ashley Dsouza
Sandeep Durbha
Indu Dwivedi
Suhas Reddy Edavalli
Ankita Dinesh Fatale
Hariny Ganapathy
Avinash Ganji
Ning Gao
Yu Gao
Digant Pramod Garude
Gautham Kidiyoor
Adeline Grace George
Sachin George
Amol Gharpure

Raman Ghimire
Deepika Ghodki
Thelma Melissa Gomes
Deepak Gowda
Mahesh Gudisa
Aadarsh Gupta
Hardik Gupta
Sanyam Gupta
Hamza A. Kheruwala
Sanjay Krishnaan Harikrishnan
Ganesh Nayar Harindranathu
Aman Harsh
Heteng Hu
Guanchong Huang
Xiaobing Huang
Xinhan Huang
John Hunter
Ashwin Panditrao Jadhav
Yaswanth Santha Hruday Jagilanka
Aditya Vijay Jagtap
Aditi Jain
Rajat Jain
Shreya Jain
Adarsh Jaiswal
Shweta Jana
Kadambare Jayandran
Mukul Jeswani
Prashant Kumar Jha
Shruti Jha
Anish Anant Joshi
Pushkaraj Joshi
Rishi Jay Joshi
Tanuja Joshi
Meghana Raj Kalidindi
Prashant Jitendra Kalyani
Venkata Rohil Wardhan Kancharla
Saistha Kapil
Roshan Sanjay Karamchandani
Prathima Karri
Revanth Karunakaran
Tejasri Karuturi
Swapnil Sadanand Kaspale
Anuja Raghunath Katkar
Paritosh Dinesh Katre

Master's Degrees

Shivani Reddy Katta
Hongyu Ke
Sphoorthi Keshannagari
Saqib Hussain Khan
Daksh Khorana
Venkata Sai Tarun Kodavati
Ann Gina Konnayil
Vinay Kudari
Nivetha Kugayanellore Jaysankar
Mihir Prashant Kulkarni
Shreya Kulshrestha
Ankit Kumar
Ashish Kumar
Shantanu Kumar
Yogesh Kumar
Dayashankar Kumaresan
Rohan Kunchakuri
Mojitha Mohandas Kurup
Kartikeyan Lakshminarayanan Vignesh
Jiajie Li
Ying Yin Li
Yipeng Li
Bowen Liang
Sai Kumar Madhadi
Nikhil Manali
Arthav Kunda-Ashok Mane
Ganesh Maridi
Sayali Madhusudan Martal
Saj Maru
Sakshi Mehra
Rajesh Reddy Mekala
Lavish Mishra
Neha Mishra
Sonali Misra
Aditya Bhalchandra Mitkari
Sakshi Modi
Muhamed Aashiq Mohamed Ibrahimsha
Ashiq Mohamed Jawahar
Mohammad Aamir
Mohammad Faraz
Shaik Azizuddin Mohammed
Akshaya Mohan
Shreya Mukherjee
Vamsikrishna Murali
Rohith Musunuri

Krishnakumar Muthukrishnan
Chennakesava Sukesh Myla
Lavanya Nadasabapathi
Kusal Nagabhairava
Spoorthy Nagadhi
Rohit Nain
Rahul Nair
Palek Naithani
Vishwas Nalka
Sriharsha Teja Nallamala
Shubhankar Nandakumar
Amey Narvekar
Gaurav Laxmandas Nathani
Aprishya Nayak
Sri Varsha Nayani
Aruvansh Nigam
Aditya Nongmeikapam
Viswa Nihar Nukala
Vindhya Nuthalapati
Lalitha Bhavani Palaparthi
Pushkar Kumar Pandey
Swapnil Sushil Pandey
Aniruddha Thaksen Parvat
Sivakumar Pasupathi
Joel Patel
Vedant Patel
Shreyans Pathak
Ashish Anant Patil
Atharva Patil
Vishal Ankush Patil
Rupam Patir
Vishal Paul
Kyle Pellechia
Nikhil Pentapalli
Sampath Bhargav Pinnam
Sagar Pinnamaneni
Nikhil Chandra Poorna Chandra
Ramesh Pavan Pothamsetty
Aditya Sai Prasannakumar
Sai Mahesh Pullagura
Vivek Reddy Ragireddy
Parthiban Rajendran
Harshavardan Ramadas
Subramani Ramadas
Jaishyam Ramalingam Balasubramania

Vishal Raman
Rahul Rammohan Mandical
Ishant Rana
Mrunmayee Vijay Rane
Sriram Rangarajan
Aishwarya Rath
Deepak Raghul Ravi
Shriram Ravi
Vaishnavi Rупpa Gangadharan
Mitali Prabhakar Sable
Akshay Sahai
Mousam Saikia
Madhavi Sajja
Venkata KrishnaSai Sakhamuri
Kaviarasu Sakthivadivel
Siddharth Sankaran
Yeseswin Ashutosh Santhanam
Deborup Sanyal
Roshan Saundankar
Sampreeth Reddy Seelam
Sai Prashanth Selvaganapathy
Arshabh Semwal
Rahul Senapati
Udhaya Kumar Seran
Dakshil Kalpesh Shah
Devansh Chetan Shah
Karan Rajendra Shah
Karan Sandeep Shah
Rushabh Shah
Rahul Shahi
Shaik Sabiha
Pinaz Shaikh
Vivek Shankar
Baasit Sharief
Akash Sharma
Krati Sharma
Rahul Sharma
Sumantra Sharma
Vidushi Sharma
Anuj Swapan Shastri
Krisha Hitesh Sheth
Ankit Shetty
Shreya Satish Shetty
Siddhesh Udesh Shinde
Prasad Dashrath Shirvankar

Abhinav Shukla
Sharvari Shyam
Akshata Singh
Harman Singh
Manya Singh
Paramveer Singh
Utkarsh Singh
Sarveshwar Singhal
Aishwarya Sinha
Arnav Sinha
Andrew Jay Sipper
Neeharika Siripalli
Prajvala Rajendra Sonawane
Sagar Sonawane
Pranav Sorte
Anirudh Sowmyanarayanan
Ashray A Sripathi
Anirudh Sriram
Meghna Sriram
Varun Sudarshan
Prajwal Sunder
Suraj
Dixita Girendra Surti
Jayesh Kishor Suryavanshi
Sushikth Shetty
Gunjan Swamy
Niharika Talluri
Saurabh Sangmeshwar Tambolkar
Vaishnav Tammadwar
Sri Rudra Tetali
Sagar Jitendra Thacker
Poojitha Reddy Thadooru
Anup Atul Thakkar
Siddhi Mahendra Thakur
Tejas Anil Thakur
Mathew Thengumpallil Jose
Steve Thomas
Bhagyashri Arvind Thorat
Meet Piyush Thosani
Kartik Tomar
Tanush Tripathi
Alok Tripathy
Mahideep Tumati
Charitha Tuniki
Naveen Udhayasankar

Abdullah Maksud Vadhariya
Siri Valluri
Kunal Pal Varma
Sai Teja Veluru
Adithya Venkatesh
Sai Vishwanath Venkatesh
Vaibhavi Rajendra Vichare
Abhiramasundari Vijayakumar
Shreya Anil Vinchankar
Dhiraj Vullanki
Vignesh Waran
Mahika Wason
Jasper Xu
Sasank Yalavarthi
Akanksha Reddy Yedla
Yeshi Paljor
Jiahui Zhang

June 2023

Umar Ahmed
Jayavani Akkiraju
Dhanush Ankata
Sudheer Anugoju
Madhav Appaneni
Spoorthy Reddy Avancha
Sougato Bagchi
Sahithi Bakaram
Anudeep Balagam
Shivani Bethi
Vishnusai Bhadramraju
Apoorva Shrinivas Bhapkar
Mahesh Shivaji Bhosale
Natalie Bruzzi
Joshua Caskie
Srinivas Chaitanya Cheepuri
Zhengyong Chen
Geeta Sowmya Chethi
Yash Chetnani
Lokesh Chilamcharla
Mahalakshmi Chintala
Mitali Laxmikant Deshpande
Ritwik Doppalapudi
Suradhya Gadde
Lohit Chowdary Gaddipati
Michael Elliott Geraci

Soumil Ghosh
Srujana Golconda
Yashwanth Gundela
Adikavya Gupta
Prasanna Krishna Reddy Jeedipally
Runkai Jiang
Rohit Joseph
Chinmay Deepak Joshi
Gokul Sai Kadaparthi
Nishanth Kaladharan
Prachi Manojbhai Khetia
Sagar Khuteta
Vishnu Sudhamsh Konkimalla
Abhishek Kumar
Utkarsh Kumar
Chaoping Lin
Jiarui Liu
Achyutha Sai Teja M
Bharath Reddy Madi
Bharatwaj Majji
Pranitha Shrivani Masamsetty
Sathvika Miriyala
Shubhangi Mishra
Akshey Ram Murali
Sai Meghana Muthyala
Venkata Sai Dheeraj Narayanabhatla
Ethan James Nhan
Yashika Vasudev Nihalani
Lohith Reddy Nimma
Sai Prathyusha Pamulapati
Shubham Pandey
Eswara Venkata Pavan Kuma Parimi
Sushmita Basavaraj Patil
Shubham Prasad Pednekar
Gopi Chand Pendyala
Girija Polamreddy
Sravya Polina
Koushik Ponugoti
Anusha Pulivarthy
Harinee Purushothaman
Lakshmi Narasimha Jayanth Puthineedi
Sumana Radham
Pradeepsurya Rajendran
Indu Raju
Sakshi Ramdurgekar

Master's Degrees

Madhavan Rangarajan
Vanitha Ravichandran
Sharath Subramanya Ravishankar
Sai Neeraj Sabbiseti
Sachin Ramesh Sarsambi
Cole Severance
Pahul Preet Singh
Aastha Sood
Hrisheekesh Talari
Lakshmi Sai Nikhila Talla
Kevin Li Truong
Rakshokini Umasankar
Madhuri Vadyala
Venkata Sumanth Reddy Vaka
Sowbhagya Veera
Madhumitha Vuribindi
Viditha Wudaru
Narendra Yalamanchi
Jaswanth Yalamandala
Shashank Yama
Naga Ashok Reddy Yerasi
Yuxing Zhang

Master of Science in Industrial Engineering

August 2022

Dylan Czubak
Samir Michael Samir Nino
Connor J Wurst
Michael Fitzgerald Young

February 2023

Gurupriya Abinavavidyatheerthan
Matthew Todd Aldrich
Abdul Aziz
Swapnil Sanjiv Bambale
Akshat Bhachawat
Priyanka Rajendra Bhoite
Martin Bustamante
Suneet Nitin Chincholkar
Saif Ahmed Chowdhury
Akshath Dasarathy
Shubham Vasant Dawle
Somit Desai

Amey Dinesh Dhuru
Kesava Dogga
Krishna Gattani
Manoj Durga Prasad Guduru
Kartikaya Mahesh Hegde
Kaasi Viswanath Jagadeesan
Dipesh Dinesh Jain
Premal Atul Jategaonkar
Srikant Jayasankaran
Jomy Jose
Omkar Avinash Joshi
Sri Krishna Teja Kadiyala
Sanchit Vilas Kedar
Abhilash Kengalahalli Chandra
Rahul Kshetty
Sunny Sanjay Malavia
Nitish Sureshkumar Mangalathu
Premasish Manna
Rushabh Mehta
Devam Atul Mhatre
Ankit Hitesh Mistry
Yash Vipul Mistry
Vishal Natarajan
Karan Nimmagadda
Siva Shankar Paramasivan
Parth Dilip Parmar
Jay Vithal Parte
Smit Nilesh Patel
Ajinkya Vijay Patil
Anirudh Varma Penumetcha
Krishna Sameer Poruri
Prthush Prakash
Kishore Pushppangathan
Shivam Bhadresh Raval
Sumeet Sahu
Aakash Sekar
Sureanthar Selvaraj
Omar-Ibne Shahid
Amar Sadanand Shetty
Ketan Deepak Singhvi
Vaishnavi Snehaddeep Soni
Sanath Viswanathan Srinivas
Thirumurugan Subramanian
Tejal Arun Tari
Vineeth Reddy Tati
Shaunak Shripad Thuse

Adwait Kamlakar Umbarkar
Vishwa Teja Vasam
Sumanth Reddy Yeruva
Shuyu Zhang

June 2023

Sakshith Goud Ayella
Sekhar Babu Boggiti
Aditya Chandra
Stanley Dsa
Lakshmi Narasimhan Jayasimhan
Sahas Kavuri
Badrudduja Jamaluddin Khan
Fenil Yogesh Manani
Abigail Marie Post
Srushti Mahesh Raut
Vikram Segaran
Lakshay Sharma
Yashraj Shashikant Sharma
Shalini Praveen Thote
Rohit Sai Kumar Yindukuri

Master of Science in Mechanical Engineering

August 2022

Samuel L. Basinait
John Michael Charleton
Jared Dybas
Andrew James Kenny
Nicholas Patrick Koroschetz
Ryan Patrick Lohr
William Louis Scalzo
Jacob William Thiesen
Pradeep Pajjibhai Vaghela

February 2023

Saikiran Goud Aithagoni
Madison Ciccarella
Yaghnya Kuchikulla
Alexander P. Kulik
Zhanhong Liu
Mohammed Hafeez
Sai Venkata Chaitanya Naraharisetty
Kristofer Andri Olafsson

Saikiran Pasupathy
Akhil Jaiwant Sinai Bhangui
Pratyush Kumar Singh

June 2023

Ashrith Adepu
Morgan I. Allis
Aditya Atre
S. S. Guru Teja Avanigadda
Kwadwo Gyamfi Badu-Danso
Shayan Bhattacharjee
Varun Evuru
Salvatore Guadagna
Steven Herrera
Porus Sunil Jadhav
Abhinav Rohan Karadi
Surya Teja Koppula
Devdatta Vishwanath Kulkarni
Polly Liang
Matthew John Logel
Vashin Gautham Nanjangud Thyagaraja
Timothy Nichols
Alexandra June Nordmann
Kruthivas Reddy Patil
Joe Usama Razzaque
Ezra D. Rowitsch
Aditya Sharda
Aniket Ramawadh Vishwakarma



Doctorate Degrees

Recommending Candidates for Degrees

Kemper Lewis
Dean

Doctor of Philosophy in Aerospace Engineering

June 2023

Kenneth L. Budzinski
Major Professor: Paul Desjardin

Stephen Roland Gagnon
Major Professor: John Crassidis

John Graff
Major Professor: Francis Lagor

Doctor of Philosophy in Biomedical Engineering

August 2022

Camila Sabatini
Major Professor: Mark Swihart

February 2023

Mahasweta Bhattacharya
Major Professor: Rudiyanto Gunawan

June 2023

Jonathan William Folmsbee
Major Professor: Scott Doyle

Huijuan Zhang
Major Professor: Jun Xia

Doctor of Philosophy in Computer Science and Engineering

August 2022

Salem Mohammed I. Alqahtani
Major Professor: Murat Demirbas

Rudra Prasad Baksi
Major Professor: Shambhu Upadhyaya

Yuhao Du
Major Professor: Kenneth Joseph

Abhishek Gupta
Major Professor: Chunming Qiao

Asif Imran
Major Professor: Tevfik Kosar

Jeffrey Christopher Murphy
Major Professor: Lukasz Ziarek

Amy Marie Rathore
Major Professor: Lukasz Ziarek

Lavone A. Rodolph
Major Professor: Tevfik Kosar

Tianqi Wang
Major Professor: Jing Gao

February 2023

Junxuan Huang
Major Professor: Chunming Qiao

Chang Min Park
Major Professor: Karthik Dantu

Enshu Wang
Major Professor: Chunming Qiao

Jiayi Xian
Major Professor: Shi Li

June 2023

Charuvahan Adhivarahan
Major Professor: Karthik Dantu

Qian Cheng
Major Professor: Wen Dong

Wenbo Ding
Major Professor: Hongxin Hu

Naveena Elango
Major Professor: Ramalingam Sridhar

Yunus Esencayi
Major Professor: Shi Li

Foad Hajiaghajani Memar
Major Professor: Chunming Qiao

Zhanghexuan Ji
Major Professor: Mingchen Gao

Yincheng Jin
Major Professor: Zhanpeng Jin

Kyung Won Lee
Major Professor: Venugopal Govindaraju

Penghang Liu
Major Professor: Ahmet Erdem Sariyuce

Xin Liu
Major Professor: Chunming Qiao

Deen Dayal Mohan
Major Professor: Venugopal Govindaraju

Sheena Ratnam Priya
Major Professor: Ramalingam Sridhar

Bhargav Shivkumar
Major Professor: Lukasz Ziarek

Bekir Oguzhan Turkkan
Major Professor: Tevfik Kosar

Zhenyi Wang
Major Professor: Mingchen Gao

Chenhan Xu
Major Professor: Wenyao Xu

Yufan Zhou
Major Professor: Jinhui Xu

Doctor of Philosophy in Industrial Engineering

August 2022
Taylor Kunkes
Major Professors: Lora Cavuoto, Ann Bisantz

Himangshu Kumar Paul
Major Professor: Alexander Nikolaev

Xiaohang Zhu
Major Professor: Jee Eun Kang

February 2023
Meghan Lee Donahue
Major Professor: Victor Paquet

Kyle Jeffrey Hunt
Major Professor: Jun Zhuang

Lan Peng
Major Professor: Chase Murray

Monir Sabbaghtorkan
Major Professors: Rajan Batta, Qing He

Qingyang Xiao
Major Professor: Jee Eun Kang

Yu Zhou
Major Professor: Rajan Batta

June 2023
Rishabh Bhandawat
Major Professors: Sabrina Casucci, Jose Walteros

Zipeng Guo
Major Professor: Chi Zhou

Doctor of Philosophy in Mechanical Engineering

August 2022
Nikta Amiri
Major Professor: Mohammad Karami

Vedant Tukaram Joshi
Major Professor: Francine Battaglia

Meng Lun Lee
Major Professor: Minghui Zheng

Fardad Mousavi Janbeh Sarayi
Major Professor: Vincent Tutino

Tatsat Rajendra Patel
Major Professor: Vincent Tutino

Afsoun Rahnema Falavarjani
Major Professor: David Salac

Hailie Patricia Suk
Major Professor: John Hall

February 2023
Zhu Chen
Major Professor: Minghui Zheng

Massimiliano Di Luigi
Major Professor: Shenqiang Ren

Azadeh Sohrabi
Major Professor: Francine Battaglia

Sanyasi Sricharan Veeturi
Major Professor: Vincent Tutino

June 2023
Cameron Mitchell Grace
Major Professor: Javid Bayandor

Premjit Saha
Major Professor: Tarunraj Singh

Munjal Purnkant Shah
Major Professor: Francine Battaglia

Pradeep Paljibhai Vaghela
Major Professor: Javid Bayandor

History of the School of Engineering and Applied Sciences

In celebrating this commencement, the School of Engineering and Applied Sciences (SEAS) marks 77 years of educational and research excellence and service to the technology 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, 100 years after the University at Buffalo was founded, the School of Engineering was established. The school was initially authorized to offer both bachelor's and master's 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 of the school 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, and four years later, in 1989, the unit changed its name to the School of Engineering and Applied Sciences.

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. Since that time, three new departments have been created. In 2010, a new Department of Biomedical Engineering was formed in collaboration with the Jacobs School of Medicine and Biomedical Sciences at UB. Then in 2014, a new Department of Materials Design and Innovation was established in collaboration with the College of Arts and Sciences. The newest Department of Engineering Education was established in 2018.

SEAS has come a long way since 1946, when it first held courses in the newly dedicated Karr Parker Engineering Building on South Campus. Parker Hall was immediately enlarged to accommodate traditional students and returning G.I.s 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. Davis Hall opened in 2011, featuring 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. Due to the recent growth in enrollment within SEAS, the school also occupies space in Capen Hall, Baldy Hall and Lockwood Memorial Library. To

accommodate this continued growth, the school plans to construct a new \$102 million building on the North Campus that features collaborative spaces for student clubs, maker space, and facilities that support entrepreneurship and student startups. Supported by \$68 million in funding from New York State, the new building will be an embodiment of our vision for 21st-century engineering: collaborative, innovative, entrepreneurial, and exciting.

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 77 years, 13 distinguished educators have served as leaders of the school. In 1946, Paul E. Mohn became the first dean. His 13-year tenure as dean lent stability to the young school. Frederick H. Thomas served as acting dean from 1959–1960. E. Arthur Trabant was dean from 1960–1966; and Howard E. Strauss was acting dean from 1966–1967. When the Faculty of Engineering and Applied Sciences became the administrative body of engineering at the University at Buffalo, the head of the faculty was often referred to as the provost. F. Karl Willenbrock was provost from 1967–1970; Joseph Bergantz was acting provost from 1970–1971; and William Gill served as provost and dean from 1971–1977. George C. Lee took office as dean in 1978, serving in that post until 1995. In 1996, Mark H. Karwan became dean, followed by Harvey G. Stenger Jr. in 2006. Rajan Batta was the school's interim dean from 2011–2012, and in 2013, Liesl Folks joined SEAS as the school's eighth dean. Following Folks' departure in 2019, Rajan Batta served the school again as interim dean until the appointment of Kemper E. Lewis as the new dean on May 1, 2020.

Our leadership and faculty realize the school's vision with the invaluable support of our dedicated staff, students, alumni, friends, and industry and corporate partners. In addition to their dedicated teaching, research, and service, the faculty, which now numbers over 250, have won prestigious awards, authored countless books and articles, and produced many patents for materials and techniques, all aiming to benefit humankind. Forty-six of our faculty have been elected as fellows of engineering professional societies and 44 are National Science Foundation Early Career Award winners. In the past three years, five of our current faculty members have been recognized as SUNY Distinguished Professors for their outstanding academic contributions, including scholarly publications, national and international research presentations, research findings, and the training of students.

Programs and Partnerships

SEAS was an early innovator in reforming the traditional preparation of 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 societal needs. SEAS is the home of such prominent interdisciplinary research and educational programs as the Biology with X-ray Free Electron Lasers (BioXFEL) Science and Technology Center; Blockchain ThinkLab; Cell, Gene and Tissue Engineering Center (CGTE); Center for Hybrid Rocket Exascale Simulation Technology (CHREST); Center for Multisource Information Fusion (CMIF); Center for Space Cyber Strategy and Cyber Security; Center for Unified Biometrics and Sensors (CUBS), Center of Excellence in Information Systems Assurance Research and Education (CEISARE); Institute for Artificial Intelligence and Data Science (IAD); Multidisciplinary Center for Earthquake Engineering Research (MCEER); and The Center for Industrial Effectiveness (TCIE).

Under UB's broad strategic initiatives, 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 the Institute of Bridge Engineering (IBE); Stephen Still Institute for Sustainable Transportation and Logistics; Sustainable Manufacturing and Advanced Robotic Technologies (SMART) Community of Excellence; Global Health Equity Community of Excellence; and the Research and Education in eNergy, Environment and Water (RENEW) Institute. Our total research expenditures for the current year were \$90 million.

Historically, SEAS' 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 41,000 alumni who have made their mark on the discipline, both in the academic world and in industry. Graduates live in all 50 states and 70 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 work to be done. We take great pride in training the next generation of engineers and applied scientists and are inspired by the challenge of delivering world-changing advances in science and technology.

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



Grace Plaza, an oasis connecting the engineering buildings.

UB Engineering and Applied Sciences Alumni Association Letter

Dear Class of 2023,

Commencement is a sacred time shared across the entire University at Buffalo community. It is an important rite that recognizes and celebrates your diligent work and remarkable achievements. Most importantly, this exclusive ceremony welcomes you into the prestigious few that can call themselves University at Buffalo alumni.

This spring, perhaps your last semester here at UB, is a time you, your friends, and your families have been anticipating for many years. Good years, certainly. But difficult years too. During your time at UB, the entire world navigated a global health crisis of unprecedented magnitude. And as you exit UB, you will enter an unpredictable and uncertain world threatened by calamities known and unknown.

Yet I know that each of you is resilient and can persevere through difficulty of every magnitude. After all, you are UB engineers and computer scientists. The world looks to us to innovate, to protect, and to rebuild. And the world needs us now more than ever. For over 70 years, alumni from our School of Engineering and Applied Sciences have led the way all around the globe. Today, you join - and will improve upon - this rich tradition of excellence.

However, success cannot be your only pursuit. As alumni, we have a responsibility to mentor and guide future generations so they can boldly take up the reins of our shared legacy. That is why the University at Buffalo Engineering and Applied Sciences Alumni Association exists - to help you, our alumni, make an impact on the students that come after you. I assure you that these efforts are immensely rewarding. Do not be surprised when the students you impact in the future end up having an impact on you.

Now and in the future, I ask that you build upon our legacy. And don't lose sight of this: that you have the power to ignite meaningful change - both in the world and in the lives of our students.

So on behalf of the University at Buffalo Engineering and Applied Sciences Alumni Association, its Board of Directors, and the more than 41,000 members who have preceded you, we welcome you with open arms. Together, we are UB.

Be bold,

Jordan Walbesser (BS CEN'07, JD'10)
President, University at Buffalo Engineering and Applied Sciences Alumni Association

Graduate Student Organizations

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Jonathan Folmsbee, President

Chemical and Biological Engineering GSA
Bui Vinh, President

Civil, Structural and Environmental Engineering GSA
Gregory Congdon, President

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Stein Adrian, President

UB AI
Shubham Pandey, President

UB Alumni Association Letter

Dear Members of the Class of 2023,

Congratulations! On behalf of the UB Alumni Association, I'm delighted to welcome you to your global network of more than 293,000 alumni. We're proud of all you have accomplished.

As you begin your next chapter, please stay in touch! We have many ways for you to remain connected—to UB and to each other—through email and social media, as well as alumni events and volunteer opportunities happening across the country and around the world.

What does this mean for you in practical terms? It means that career help, volunteer opportunities and engaging educational and social events are all yours for the taking. To learn more about what's available with your new alumni status, visit buffalo.edu/alumni.

If you have questions about how to stay involved, contact the Office of Alumni Engagement at ub-alumni@buffalo.edu.

Remember, this isn't goodbye—it's WELCOME to the UB alumni family. We know you'll always be True Blue and proudly keep your Horns Up, wherever you go and whatever you do.

Go Bulls!

Darshon Jayasinghe

Darshon Jayasinghe, BA '03
President, UB Alumni Association Board of Directors

P.S. Keep your @buffalo email [for life](#) simply by logging in through a browser every 90 days.

The 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)

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ON THE COVER

The modern seal for the University at Buffalo harks back to a design adopted in 1923 to reflect the evolution of the university from separate schools into a more close-knit organization. Though the seal has been revised several times over the decades, the foundational elements remain: a proud bison signifying the City of Buffalo atop a shield supported by the palm leaves of victory and emblazoned with the flames of wisdom.