

Commencement

SPRING SEMESTER 2022



COLLEGE OF EARTH AND MINERAL SCIENCES

Saturday, May 7, 2022

Pegula Ice Arena

1:00 p.m.



PennState



National Anthem

by Francis Scott Key

O say, can you see, by the dawn's early light,
What so proudly we hailed at the twilight's last gleaming;
Whose broad stripes and bright stars, thro' the perilous fight,
O'er the ramparts we watched, were so gallantly streaming?
And the rockets' red glare, the bombs bursting in air
Gave proof thro' the night that our flag was still there.
O say, does that Star-Spangled Banner yet wave
O'er the land of the free and the home of the brave!

Alma Mater

by Fred Lewis Pattee

For the glory of old State,
For her founders, strong and great,
For the future that we wait,
Raise the song, raise the song,

Sing our love and loyalty,
Sing our hopes that, bright and free,
Rest, O Mother dear, with thee.
All with thee, all with thee.

When we stood at childhood's gate,
Shapeless in the hands of fate,
Thou didst mold us, dear old State,
Dear old State, dear old State.

May no act of ours bring shame
To one heart that loves thy name,
May our lives but swell thy fame,
Dear old State, dear old State!



PennState
College of Earth
and Mineral Sciences

COMMENCEMENT

Spring 2022 Baccalaureate Degrees

COMMENCEMENT PROGRAM

ACADEMIC PROCESSIONAL

Performed by Centre Brass

NATIONAL ANTHEM

Led by Katrina Cole

The audience is asked to join in the singing.

PRESIDING

Eric J. Barron, B.S., M.S., Ph.D.

President of The Pennsylvania State University

Lee Kump, A.B., Ph.D.

John Leone Dean in the College of Earth and Mineral Sciences

COMMENCEMENT ADDRESS

Eric J. Barron, B.S., M.S., Ph.D.

President, The Pennsylvania State University

AUTHORIZATION TO CONFER DEGREES

Anthony P. Lubrano, B.S.

Member, Board of Trustees

RECOGNITION OF MERITORIOUS ACHIEVEMENT

Dean Lee Kump

RECOGNITION OF DEPARTMENT MARSHALS

Yvette Richardson, B.S., M.S., Ph.D.

Associate Dean for Undergraduate Education

CONFERRAL OF DEGREES

Eric J. Barron, B.S., M.S., Ph.D.

President, The Pennsylvania State University

INDUCTION INTO ALUMNI ASSOCIATION

Scott Billingsley, B.S.

GEMS President-Elect

PENN STATE ALMA MATER

Led by Katrina Cole

The audience is asked to join in the singing.

RECESSIONAL

Performed by Centre Brass

The audience will please remain seated.

UNIVERSITY NOMENCLATOR

E. Alan Cameron, B.S.A., M.S., Ph.D., B.C.E.

Professor Emeritus

MARSHALS

UNIVERSITY MARSHAL

R. Allen Kimel, B.S., M.S., Ph.D.
Associate Teaching Professor of Materials Science and Engineering

COLLEGE MARSHAL

Camila Van Oost
Environmental Systems Engineering
Faculty Marshal: Ljubisa R. Radovic, B.S., Ph.D.
Professor of Energy and Mineral Engineering

SCIENCE HONOR MARSHAL

Catherine May Kohlman
Meteorology and Atmospheric Science
Assistant Faculty Marshal: Raymond G. Najjar, B.E., Ph.D.
Professor of Oceanography

DEPARTMENT MARSHALS

Mohammed Essa S. ALNoaimi
Energy and Mineral Engineering
Jacqueline McKeon
Geography
Edward Joseph Spagnuolo
Geosciences
Luke Sepich
Materials Science and Engineering
Alex Alvin Cheung
Meteorology and Atmospheric Science
GEMS DIAMOND AWARD RECIPIENT
Imani Murray
Materials Science and Engineering

COLLEGE LEADERSHIP

Lee Kump, A.B., Ph.D.
John Leone Dean in the College of Earth and Mineral Sciences
Zuleima Karpyn, B.S., M.S., Ph.D.
Associate Dean for Graduate Education and Research
Yvette Richardson, B.S., M.S., Ph.D.
Associate Dean for Undergraduate Education
Victoria Sanchez, B.A., M.A., Ph.D.
Associate Dean for Educational Equity
Ann Taylor, B.A., M.A., Ph.D.
Assistant Dean for Distance Education

Message from the Dean

Congratulations, Class of 2022! You've earned a degree from one of the most challenging programs at Penn State. Along the way you experienced the joy of discovery, the stress of deadlines and examinations, and the satisfaction of a job well done. You learned how to think critically and write clearly, how to gather, present and analyze data, and how to effectively communicate your conclusions and their impact to a diverse audience. We, the faculty and staff of the College of Earth and Mineral Sciences, along with the students you've gotten to know, both undergraduate and graduate, couldn't be prouder of you and your accomplishments. I know we share that pride with your family and friends who have provided you support through your time at Penn State.



We are, I hope, emerging from the darkness of a global pandemic to the bright future we know awaits you. The faculty have worked to provide you an education that gives you both the broadly applicable skills and the depth of understanding of your chosen discipline that you'll need to navigate both smooth and choppy waters ahead. And you've honed those talents, developing a strong sense of resiliency that will serve you well in life. Use your skills and knowledge to find a rewarding career and to do good for society. And continue to lean on us for support. You are joining one of the most supportive alumni networks in the world: you are now a GEMS, a Graduate of Earth and Mineral Sciences, and the GEMS alumni organization will be there when you need them. So, enjoy your graduation day, stay safe and healthy, and stay in touch.

Lee Kump

John Leone Dean in the College of Earth and Mineral Sciences



Commencement Speaker

President Eric J. Barron was named the 18th President of Penn State by the University's Board of Trustees on February 17, 2014. He returned to Penn State from the helm at Florida State, bringing with him nearly 35 years of leadership experience in academic administration, education, research, and public service, and a track record as a talented manager of fiscal policy within large and complex institutions.

President Barron spent 20 years of his career at Penn State, serving as dean of the College of Earth and Mineral Sciences from 2002 to 2006, and as founding director of the Earth System Science Center, one of the first major initiatives focused on the total study of Earth as a system, from 1986 to 2002. He also had a simultaneous appointment as director of the Earth and Mineral Sciences Environment Institute from 1998 to 2002. In 1999, he was named Distinguished Professor of Geosciences at Penn State.

An accomplished scientist with a long background in atmospheric research, President Barron served as director of the National Center for Atmospheric Research from 2008 to 2010 and as dean of the Jackson School of Geosciences at the University of Texas at Austin from 2006 to 2008. Early in his career he was a postdoctoral research fellow and scientist at the National Center for Atmospheric Research in Boulder, Colorado, a federal research center focusing on atmospheric and related science issues. He originally worked at NCAR as a postdoctoral fellow from 1981 to 1985, and served for one year on the faculty at the University of Miami before joining Penn State.

President Barron earned his bachelor's degree in geology from Florida State University in 1973, his master's and doctoral degrees in oceanography, in 1976 and 1980, respectively, from the University of Miami.

Baccalaureate Degree Recipients

PROGRAM NOTES

Scholastic Distinction: Distinction is conferred on graduates who have completed the required number of credits at the University and who are in the top 12 percent of their graduating class in their colleges. The 12 percent is divided into: 2 percent, Summa Cum Laude (Blue and White Honor Cord); 4 percent, Magna Cum Laude (Blue Honor Cord); 6 percent, Cum Laude (White Honor Cord). Distinction is based on cumulative GPA at the end of the fall 2021 semester and is noted with the symbols: +++ for Summa Cum Laude; ++ for Magna Cum Laude; and + for Cum Laude.

Schreyer Scholars: The Schreyer Honors College selects students who exhibit the promise of fulfilling academic excellence with integrity, building a global perspective, and pursuing civic engagement and leadership. Schreyer Scholars must maintain a record of good academic standing, complete 35 credits of honors courses, and submit a thesis. Schreyer Scholars are noted with the symbol: §.

EMSAGE Laureates: The Earth and Mineral Sciences Academy for Global Experience (EMSAGE) Laureates are graduates recognized for outstanding achievements through a well-rounded undergraduate experience including scholarship, experiential learning and global literacy, personal and professional integrity, service to the college and the community, and leadership. Students graduating as an EMSAGE Laureate are noted with the symbol: ‡.

Military Commission: Students who have satisfactorily completed the advanced course in military, naval or air science may be granted commissions upon graduation. Military and air science graduates are commissioned as second lieutenants; naval science graduates may be commissioned as ensigns in the Navy or second lieutenants in the Marine Corps. Students graduating with a military commission are noted with the symbol: ◇.

Bachelor of Arts

Energy and Sustainability Policy

Scott Ernest Famous II

Geography

Ishaan P. Anavkar+++§
Jazmyn Olivia Clark
Nelson Robert Huffaker+§
Jacqueline McKeon+++
Kelly Alexa Porter

Geosciences

Joseph Larock

Bachelor of Science

Earth Science and Policy

Amanda Bassett
Olivia A. Budnovitch
Zachary Robert Kelly

Caroline Newman
Allysa Nicole Temple+
Morgan Vonada

Earth Sciences

Mitchell D. Miller
Connor Parrish Russell
Samuel N. Williamson

Energy and Sustainability Policy

Gregory John DiRubbo
Michael James Hanson
Carolyn Marie Heckman
Mona Lisa Hill ◇
Lindsey N. Klein++
Rachael Pauline Near
Joshua Joseph Pangelinan

Energy Business and Finance

Jennifer Lindsay Cali
Cree Coccodrilli

Jacob Cusatis
Paul D. DeNaples
Andrew G. Dixon
Christopher James Durso
Carl Gerland++
Tianqi Han
Maxwell Ian Hopko
Jessica A. Jeanty
Joshua W. Kiser
Tyler Michael Lawrence
Joseph Michael Picozzi
Daniel Joseph Spontak
Alexandra Turner
Qiren Xie

Energy Engineering

Saeed Nasser Saeed Salem
Alshamsi
Jerrod Anthony
Gabriel Andres Ariza Marrero
Brent Daniel Beck+
Bimal Bhattarai

Jared J. Bisceglia
Jared L. Brown
Andrew Kenneth Brown ‡
Joseph Dominic Centobene III
Cindy Choi
Samuel Miller Davis
Moha Desai
Kevan Robert Downs
Andrew Case Elderhorst
Sammy Davis Entabi
Paige Gallotta
Annan Gan
Alexis Gogola
Leo S. Hampel
Tyler David Heglas+
Wesley Adam Hughes
Matthew Keeton
Yungu Lee
Xitao Liu++
Chad Thomas Loftus
Lianna Olivia Male
Ian McCoy
Alexander James Myers
Tristan Ryan
Abigail Renee Schutzman
Timothy James Soberano
Ryan Stough
Brian Swift
Maximilian Klaus Watson

Environmental Systems Engineering

Ryan Joseph Bechman
Robert Cecchetti
Ziyang Chen
Isabella G. Colacioppo
Riley Connors
Elizabeth A. Czekaj
Sarah Sabina Derbyshire
Chuyang Hao
Ryan J. Kovacs+
Jenna Lopez
Acxell Gabriel Marmol
Jack T. Prince
Sirui Pu++§
Shreya J. Ramesh+§
Nina Lillian Schappell+
Sourav Sripathi

Camila Van Oost+++‡
Huiwen Xie
Yichen Yue

Geobiology

Edward Joseph Spagnuolo++§ ‡

Geography

Thomas Vincent Allen
John J. Balzano ◇
Benjamin Emerson Bulkeley
Claire Byrnes §
Mya Hagans
Nathan Andrew Kessler
Benjamin Alexander Kumka
Ryan Jacob Kurtz
Alainna Jayne Nevling
James Niemiec
Hannah Perrelli
Noah Rogers
Lucas A. Sottolano
Guinevere Mary Stone
Yixuan Sun
Ziwen Tan
Hope Maria Thatcher
Madelyn Verno
Zheming Zhang

Geosciences

Abdulaziz Khalid A. Almansour
Cameron Maurice Brown
Raquel Ellis
Ryan Orlowski
Aimee Zimmerman

Materials Science and Engineering

Reem Abduljaleel M. Alalwan++§
Eric Delany Andrewlavage
Benjamin Aronson++§
Leonardo Batista Capaverde
Silva+++§‡
Victoria Lourdes Belka §
Zachary Michael Boring++
Margaret Kathleen Brown++§
Madeline Stavriana Cannon
Erin Chacos

Roujia Chang++
Benjamin Joseph Dixon
Scott Ennis
Lucianne V. Ferraro
Sydni L. Fritts
Rongkun Gao++
Amanda Gregg+§
James Morley Hanagan++§
Josie R. Hoover
Zihan Huang+
Jonathan Lee Hunt
Devon Chance Kleeblatt+§
Jason Theodore Knapp
Pete E. Lauer+++§
Matthew Levens
Alivia Martelliti
Kelly Elizabeth Matuszewski++§‡
Katelyn McCreery
Melinda Michelle Mckeehan
Christine Marie Midea
Alexis Miller ‡
John Aaron Morreale
Imani Murray
Elias G. Papadopoulos
William Silas Roberson
Anthony Paul Romero+§‡
Emily Rowan+
Domenic John Rullo
Luke Sepich+++
Matthew T. Shaw
Chrislynn Gono Suah
Sahil Tandale
William J. Urmann
Guang Xu
Lu Yin++
Andy You
Youngsuk Youn ‡
Kemper Joseph Young++
Gengbo Zhang
Wayne Zhao+++§
Kim Zhu

Meteorology and Atmospheric Science

Ashley Nicole Anderson
Nicholas E. Barth
Shannon Beebie
Samuel Brandt+

Alex Alvin Cheung+++§
 Tyler Bell Danzig
 Hunter Dewayne Donahoe
 Stuart D. Dougherty
 Reagan Dougherty
 Carl Gerland++
 Angelina Horvath
 Mathilde Mingwei Hsia
 David T. Janson
 Nicholas A. Kilgore
 Catherine May Kohlman+++§‡
 Marc P. Kolendowicz++§
 Bradley Michael Krenicky Jr.
 Colin Matthew Kultys
 Nicholas Ryan Lin
 Abigail Katelyn McCarthy
 Sean Donald Melanson+++§‡
 Quinlan Mulhern+
 Kyle James Petroziello
 Joseph R. Ruch
 Katherine Seikel
 Baylee Sexton+§‡
 Madelyn Rose Skinner
 Grace Van Patter+
 Anna E. VanAlstine
 Alisha G. Wellington§
 James Andrew Wendolek
 Ally Nadine Yoder
 Jared Michael Young

Mining Engineering

Nicholas Alexander Boras
 Jack Mitchell Dallas Core
 Benjamin T. Hollister
 Calvin Kroczyński
 Savern Lau+§
 Chad Lee McDonough

Petroleum and Natural Gas Engineering

Hannah Chidinma Adighije ◇
 Abdulla Al Hosani
 Bander Khalid S. AlAbdulkarim
 Abdulaziz Abdullah Alanazi+
 Abdullah Abdulrahman A.
 Aldakhail
 Ali Yousef A. Aldowais
 Maohammed Fawaz A. Alessa
 Faisal Tariq S. Aljabr
 Jowd Alawi A. Alkhabaz
 Eyad Hasan M. Alkhotani
 Tariq Ghith S. Alnizami
 Mohammad Essa S. ALNoaimi+++§
 Fajer Hasan Alqallaf
 Hassan Mowaffak H. Alsaygh
 Shooq Yaqoub Alselahi
 Turki Ali A. Alshaikh
 Abdulrahman Meshari H. Alshehri
 Maha Abdulrahman M. AlSuhaibani
 Ahmed Ghassan Alsuwayied+
 Abdulaziz Mohammed S. Altwaijri
 Vincent Dillon Bucciarelli
 Christopher David Carle
 Chase Jonathan Ebersole
 Kenneth Andrew Gabrielson III
 Cove Ryan Klaas-Bentley
 Seif Magd
 Kane Alexander Mills
 Shalom Nthenya Mulinge+
 Bassam Iejaz M. Shahid
 Brady J. Straub

Additional Participants

Students who requested to be listed by March 21, 2022, and who have 8 or fewer credits to complete their degree programs are listed below.

Energy Engineering

Francisco Aguilar
 Preston Charles Goodwin
 Sufyan Omar Sufyan Sartawi
 Jacobo Vasquez

Environmental Systems Engineering

Zachary Louis Dieck

Geosciences

Devon C. Chenot
 Samuel Dikeumunna
 Margaret Maenner
 Gabriella Mentgen
 Garrett Paley
 Lauren Kathleen Stern

Materials Science and Engineering

Ahmed Hadi Salem Awail
 Almenhali

Meteorology and Atmospheric Science

Anthony Mastrangelo

Mining Engineering

Queen Esi Obosu

Note: The information in this document was produced March 21, 2022, as an unofficial list of students who indicated intent to graduate for the spring 2022 semester. Students who indicated their intent to graduate after that date are not listed. Subject to completion of all degree requirements, degrees will be conferred as indicated upon the individuals listed herein and upon such others as may meet the requirements.

If you have a question about your name, degree or distinction listed in this program, please reach out to Heather Kimble, hmo106@psu.edu.



WELCOME TO THE PRIDE!

Congratulations on your graduation, and welcome to the Penn State Alumni Association —the largest and most powerful alumni network in the world.

New graduates receive a **complimentary one-year membership** in the Penn State Alumni Association.

As you enter the pride, you'll join the ranks of alumni who keep their connection to Penn State strong through membership. We encourage you to stay connected and learn more about the 30+ benefits that are included with your membership.

Membership materials, including your membership card, will be mailed to you after graduation. Benefits are available to you immediately upon receiving your membership card.

Exclusive Member Benefits

CAREER AND EDUCATION



- **Alumni Career Services:** Attend premium Alumni Career Service events for free or at a substantial discount.
- **Discounts on Kaplan Test Preparation Services**
- **Alumni Library Online:** Exclusive access to Penn State Libraries Digitized Collections and University library databases.

ALUMNI EMAIL



Members of the Alumni Association can sign up for a **personal Penn State email account** (@alumni.psu.edu). Accounts are hosted by Google for Education and also include **online storage** and a collection of digital tools.

DISCOUNTS



Members receive **access to discounts** including merchandise at Penn State Bookstore campus locations. They also receive access to discounted health, auto, renters, home, life, long-term care, and pet insurance.

Additional benefits include early invitations to Alumni Association events, access to the Alumni Directory, publications including the *Penn Stater* magazine, and much more!

This publication is available in alternative media on request.

The University is committed to equal access to programs, facilities, admission and employment for all persons. It is the policy of the University to maintain an environment free of harassment and free of discrimination against any person because of age, race, color, ancestry, national origin, religion, creed, service in the uniformed services (as defined in state and federal law), veteran status, sex, sexual orientation, marital or family status, pregnancy, pregnancy-related conditions, physical or mental disability, gender, perceived gender, gender identity, genetic information or political ideas. Discriminatory conduct and harassment, as well as sexual misconduct and relationship violence, violates the dignity of individuals, impedes the realization of the University's educational mission, and will not be tolerated. Direct all inquiries regarding the nondiscrimination policy to the Affirmative Action Office, The Pennsylvania State University, 328 Boucke Building, University Park, PA 16802-5901, Email: aao@psu.edu, Tel (814) 863-0471.

U.Ed. EMS 22-65.

