

# Commencement

SPRING SEMESTER 2023



## COLLEGE OF EARTH AND MINERAL SCIENCES

Saturday, May 6, 2023

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 2023 Baccalaureate Degrees**

# COMMENCEMENT PROGRAM

## ACADEMIC PROCESSIONAL

Performed by Centre Brass

## NATIONAL ANTHEM

Led by Piper Weldon

*The audience is asked to join in the singing.*

## PRESIDING

Justin Schwartz, B.S., Ph.D.

Executive Vice President and Provost, The Pennsylvania State University

## COMMENCEMENT ADDRESS

Susan Avery, B.S., M.S., Ph.D.

Professor Emerita, University of Colorado

President Emerita, Woods Hole Oceanographic Institution

## AUTHORIZATION TO CONFER DEGREES

Randall "Randy" E. Black, B.S., M.B.A

Member, Board of Trustees

## RECOGNITION OF MERITORIOUS ACHIEVEMENT

Dean Lee Kump

John Leone Dean in the College of Earth and Mineral Sciences

## RECOGNITION OF DEPARTMENT MARSHALS

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

Associate Dean for Undergraduate Education

## CONFERRAL OF DEGREES

Justin Schwartz, B.S., Ph.D.

Executive Vice President and Provost, The Pennsylvania State University

## INDUCTION INTO ALUMNI ASSOCIATION

Scott Billingsley, B.S.

Graduates of Earth and Mineral Sciences (GEMS) President

## PENN STATE ALMA MATER

Led by Piper Weldon

*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**

Martha Lisbeth Christino, Meteorology and Atmospheric Science  
Faculty Marshal: George Young, B.S., M.S., Ph.D.  
Professor Emeritus of Meteorology

## **ENGINEERING HONOR MARSHAL**

Bevan Neil Harbinson, Materials Science and Engineering  
Assistant Faculty Marshal: Robert Hickey, B.S., Ph.D.  
Associate Professor of Materials Science and Engineering

## **DEPARTMENT MARSHALS**

Mallori Bingaman, Energy and Mineral Engineering  
Isabella Marie Culver, Geography  
Anna Ju-Young Lee, Geosciences  
Lucas Michael Erich, Materials Science and Engineering  
Gabrielle Olson, Meteorology and Atmospheric Science

## **GEMS DIAMOND AWARD RECIPIENT**

Athbi Alfarhan, Petroleum and Natural Gas Engineering

## **GEMS DIAMOND AWARD HONORABLE MENTION**

Luke Winand, Meteorology and Atmospheric Science

# **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 2023!

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 have emerged from 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.

A handwritten signature in blue ink that reads "Lee Kump".

Lee Kump,  
John Leone Dean in the College of Earth and Mineral Sciences

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## Commencement Speaker



Susan Avery, president emerita of the Woods Hole Oceanographic Institution, will deliver the commencement address for the College of Earth and Mineral Sciences' 2023 baccalaureate degree commencement ceremony.

Avery served as president of the Woods Hole Oceanographic Institution (WHOI) from 2008 to 2015. Before joining WHOI she served on the faculty at the University of Colorado, Boulder, from 1982 to 2008.

Avery has been active in congressional outreach, including testimony and briefings; in U.S. and international consortia dedicated to ocean research, observation and applications; and worked with the governor's committee to develop the Massachusetts Green Economy plan.

Avery currently serves on the Exxon Mobil Corporation board of directors, the board of the American Institute of Physics, the board of the Rocky Mountain Biological Laboratory and on the advisory committee for the Lawrence Berkeley National Laboratory.

Avery's research interests include studies of atmospheric circulation and precipitation, climate variability and water resources, and the development of new radar techniques and instruments for remote sensing. She recently completed two terms as a member and chair of the board of trustees of the University Corporation for Atmospheric Research.

Avery is a fellow of the American Association for the Advancement of Science, American Meteorological Society, for which she also served as president, and Institute of Electrical and Electronics Engineers.

Avery earned her bachelor of science degree in physics from Michigan State University and a master of science degree in physics and doctorate in atmospheric sciences from the University of Illinois.

# Baccalaureate Degree Recipients

## PROGRAM NOTES

Scholastic Distinction: Subject to completion of all degree requirements and satisfaction of minimum criteria, distinction may be conferred as indicated upon the individuals listed herein and upon such others as may meet the requirements. 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 (minimum 3.97 GPA, Blue and White Honor Cord); 4 percent, Magna Cum Laude (minimum 3.89 GPA, Blue Honor Cord); 6 percent, Cum Laude (minimum 3.79 GPA, White Honor Cord). Distinction is based on cumulative GPA at the end of the fall 2022 semester and is noted with the following symbols: +++ = Summa Cum Laude, ++ = Magna Cum Laude, + = 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. To graduate with honors, Schreyer Scholars must maintain a record of good academic standing, complete 35 credits of honors courses, and submit a thesis. Students graduating with honors are noted with the following 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 following 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 following symbol: ◇.

## Bachelor of Arts

### Geography

Isabella Marie Culver+  
Emily Jane Hauryski  
Allison Anne Holland‡

### Geosciences

Hannah Grace Hayes

## Bachelor of Science

### Earth Science and Policy

Joshua David Karas  
Maya Rose Kita  
Anna Ju-Young Lee++  
Hannah Lynn Luckenbaugh  
Kacper Orpik  
Angelina Santamaria§‡  
Riley Nicole Wian

## Earth Sciences

Matthew Christie  
Jarem Cortez  
Emma J. Cox  
Bradly David Crouthamel+  
Dominic John Grasso  
Jiahao Guo+  
Kathleen E. McGowan  
Isabella R. Plotkin  
Garrett Reed  
Deanna Richards  
Easton Richard Rinfrette

### Energy and Sustainability Policy

Mallori Bingaman+++  
Candace L. Emanuel◇  
Deborah Joanne Kimball  
Melissa Lopez  
Morgan Alexa Miller  
Kayla Lynn Peate

Jeremy Schieber◇  
Robert Eric Sikora

## Energy Business and Finance

Diaraye Bah  
Scott Beckman  
William Joseph Berta  
Maddison Brant  
Brendan Carothers  
Kayla Ann Gregory  
Grant Holcomb  
Stanley Oghenekaro Igbudu  
Afolabi Isiaka  
Jacob Orion Johnson  
Jacob Parker Lang  
Flannery Hope Larson  
Nathan Scott Leach  
Sihan Liu++§  
William Bowditch Massie  
Brett Miller  
Alyssa T. Nguyen

Nayana R. Pandey+§  
Patrick Brennan Rother  
Joshua Michael Rowe  
Michael Swope  
Zhihan Wang+‡  
Chaohan Yan  
Taimur Zain  
Andrew Zanaras

## **Energy Engineering**

Katherine Irene Bowser  
Mufaddal Gheewala‡  
Vedanthi Santrupth Gowdgere  
Ramakrishna  
Kyra Alisha Green  
Taggert Raidy Hudson  
Andrew John Iaia  
Erika Alise Lenhart  
Logan James Mackes  
Akhdan Ilyas Mir‡  
John A. Mylant  
Duc Phu Hoang Nguyen  
Shakur Rahamani  
Michael Gregory Rovnak  
Alexander Charles Salter  
Nicholas Shultz  
Andrew Sullivan  
Chang Yan

## **Environmental Systems Engineering**

Huseen Alkseemy  
Ryan Joseph Bechman  
Henry O’Ryan Chapman+  
Hannah Marie Chop§‡  
Lara Gisela Colmener  
Mitchell Corsi  
Jackson Sawyer Griffiths  
Callie Marie Habovick  
Riley Nicole Herndon  
Gabriel Christopher Hiestand+§‡  
Hunter Lynn Hirneisen  
Richard Bong Jeong  
Joseph Bernard Kurincak+  
Andrew Massimo Marini  
Jaeden Mayzel‡  
Ethan Anthony McLeod

Fatmah Yousef Mohammad  
Ryan Patrick Nelligan  
Meredith Ellen Pepka++‡  
Cash Platz  
Katherine Rasmussen‡  
Emily Virginia Salvatore  
Claire Elizabeth Souder++  
Sourav Sripathi  
Christian Stoudt

## **Geobiology**

Sarah Davis+  
Eathan Riley Gottshall+  
Travis John Krivitski

## **Geography**

Cormac James Caughey  
Chenmiaomiao Han  
Benjamin Russell Maus  
Jiheng Miao  
Olivia Rose Neill  
Camila Alexandra Pena Brugal‡  
Evan Lambros Polyak  
Gregory Michael Roszyk Jr.  
Angelina Santamaria§‡  
Faiz Waiguchu  
Jordan Daniel Young

## **Geosciences**

Asala Al-Wadhahi  
Renan Lynne Beckman  
Jin Uk Choi  
Robert Austin Hull+  
Ethan Lawrence Lionetti  
Madeline Rose Murtaugh+  
Alexander Alexandrovich Nikitin  
Victoria Hart Paul  
Sarah Perez  
Madalyn Bodnar Reed  
Hunter Emory Reeves‡  
James Aaron Regensburger  
Frank Emanuel Santini  
Sunday Honor Siomades+§‡  
Megan A. Vinella  
Kenneth Frank Wasiulewski  
Katerina Wood

## **Materials Science and Engineering**

Aidan Thomas Adkins  
Manal Rashdan A. Almutairi  
Michael Ammendola++‡  
Sierra Rose Astle§  
Brian Alexander Chou  
Chun Chou  
Anthony Thomas Diaz  
Shane Donaher++§  
Lucas Michael Erich+++‡  
Jacob Paul Feldbauer  
Bevan Neil Harbinson+++§  
Krista Hauseman+  
Yasi Huang  
Aarushi Jadhav§‡  
Lindsay Frances Jones++§  
Mingyo Jung  
Patrick Gordon Kirsch  
Robert Charles Koennecker  
Matthew Austin Kunes++  
Mackenzie Lane  
Jaeho Lee  
Yu Chieh Lin  
Haiming Lu  
Timothy Pickarski++§  
Kyra Ann Pond  
Conner Andrew Popo  
Ayunni Maisarah Binti Rosminuddin  
Meddelin Setiawan+++‡  
Zachary R. Strasbaugh  
Chrislynn Gono Suah  
Alana Blaise Sweeney◇  
Ryan Sweny  
Melissa Tapia  
Michael William Thomas+++§  
Zachary James Trdinich+§  
Kathryn von Abo+  
Wan Ahmad Naufal Bin Wan Mansor  
Justin Warner+‡  
Nathaniel Edward Warren+  
Matthew Joseph Weisenberger  
Cheng-Yin Wu+  
Shaojie Xu+  
Jun Weng Yeo‡  
Abdul Hadi Bin Yusri+  
Tianming Zhao  
Ross W. Zofcin



## **Meteorology and Atmospheric Science**

Kevin Abbot  
Kevin William Appleby  
Katelyn Elizabeth Bahr◊  
Cameron Barker  
Patrick Baumann  
Katrina M. Becker  
Selina Bolella  
Chaunce Troy Cartledge Jr.  
Caroline Castora  
Joseph Vincenzo Cavalieri  
Martha Lisbeth Christino+++§  
Cameron James Chuss  
Delián Colón Burgos †  
Dora Ryan Courtney  
David Alexander Cruz  
Kyle J. Eck  
Matthew Stephen Eovino  
Kevin Joseph Fletcher  
Connor M. Freidhoff  
Carter Greulich  
Cade Harrison Groman  
Catherine Jane Gross  
Jacob Daniel Hair+++  
Jared Andrew Hardies  
Yuan-Chih Hsieh++  
Michael Andrew Jablonski  
Andrew Jacob Janosky  
Isabelle Kathleen Jernigan+  
Nicholas Joseph Johnson  
Kaitlin Marie Kitch+  
Christian S. Lehman  
David Patrick Marcial+++§‡  
Patrick Joseph McFarland+++  
Alisha Nicole Mendez  
Brian Robert Michigan  
Lillian Amelia Swanson Muller++  
Eric Joseph Myskowski+++§  
Anthony Nargi  
Zoltan M. Nemeth  
Gabrielle Olson+++§  
Dana N. Osgood  
Sarah Nicole Potts  
Elizabeth H. Rader  
Myah Ann Rather  
Jesse Richard James Rutt  
Christopher Slough+++

Sarah Stengel  
Evan Daniel Sullivan  
Domenic Taylor  
Douglas Thomas Toth  
Kyle Evan Watson  
Luke Winand‡  
Mitchell Patrick Zotter

## **Mining Engineering**

Darby Gray Adams  
Evan Antonacci  
Daniel Buonanno  
Mark A. Hovingh++  
Noah King

## **Petroleum and Natural Gas Engineering**

Rahaf Ahmed A. Abaoud++  
Hamzah Nader A. Abushullaih  
Clayton M. Adams  
Hannah Chidinma Adighije◊  
Abdulilah Mazen Al Dahlawi  
Ali Ahmed N. Al Hassan+++‡  
Noorah Abdullah A. Al Mulhim+++§  
Zaid Mohammed I. Al Sawayigh  
Nawaf Khalid S. Alamri  
Mohammed Ali A. Alamri  
Mohammed Fahad K. AlAqeel  
Mohammed Nabil M. Alarfaj+++‡  
Saud Samer S. AlAshgar+  
Husain Alattar  
Mansour Nasser M. Albqami+  
Abdulrahman Mubarak A. Aldossary++  
Abdulaziz Saad A. Alfaadhel  
Yazeed Saeed S. Alghamdi  
Amr Ahmed F. AlGhamdi  
Amr Adel M. Alghamdi  
Yazeed Mohammad S. Alghamdi  
Hind Majed Alghuwainem+  
Bandar Alhajeri  
Anas Muslih O. Alharbi  
Sultan Abdulkareem M. Alharbi  
Abdulkarim Nassir A. Alhayaf  
Bassam Salman I. Alhazzani+  
Raneem Riadh B. Alhezemy++  
Nader Ibrahim F. Aljarbou  
Sari Mohammed A. AlJohani  
Sultan Yahya S. Aljuhani

Jamal Abdullah A. Alkhawfi++  
Ahmed Nasser A. Alkhrisi  
Muhammad Ahmed A. AlManie  
Faisal Fahad A. Almnea  
Abdullah Adel M. Almoaibed  
Mohammed Hesham A. Almusaiid  
Mohammed Almuwaine  
Abdullah Mohammed A. Alomair  
Abdulaziz Yousef A. Alomran  
Salman Mohammed A. Alosaimi  
Nawaf Tariq M. Alotaibi  
Saleh Ghazi H. Alotaibi  
Abdullah Saud S. Alotaibi+  
Khalid Saad Alqahtani++  
Faisal Saeed Alqahtani  
Ammar Yasir B. Alqattan+  
Fahed Faisal Alquraini  
Saif Abdulrahman S. Alsaadoon  
Hossam Ali M. Alsaeed  
Mohammed Obaid A. Alshaibani+  
Abdulrahman Mohammad A. Alshammari+  
Majid Hamoud A. Alshammari  
Faisal Motlak A. Alshammari  
Heesah Abdulmohsen F. Alshihab++  
Ibrahim Abdulmohsen I. Alshokr+  
Sharefah Abdulrahman A. Alsultan+  
Hamad Fahad S. Alsunaid  
Abdulaziz Nawaf Y. Altowaireb+++  
Eyad Ahmed M. Alzahrani++  
Kelly Renae Arnett◊  
Mohammad Saeed A. Badghaish‡  
Muhanad Adnan M. Bazaid  
Carter A. Brandes  
Logan James Chorba  
Amr Alaeddin A. Dajani  
Caleb James Ei  
Tristin C. Findlay  
Evan Gutherman  
Nour Mowaffaq A. Haneef+  
Agyeman Rhys John  
Jacob Anthony Macinanti  
Matthew Munoz  
Caden Michael Myers  
Mohammed Umair Pakkar  
Linzee Pichler  
Jordan Nicole Thibodeaux‡  
Chia Hsin Yang  
Asadbek Zakirov

# Additional Participants

Students who requested to be listed by March 24, 2023, and who have 8 or fewer credits to complete their degree programs are listed below or completed degree requirements in fall 2022.

## Bachelor of Arts

### Geography

Samuel Smyth Fisher

## Bachelor of Science

### Earth Science and Policy

Courtney Nicole Aubain

Riley Scott Boag

### Earth Sciences

Daniel Guzman

## Energy and Sustainability Policy

Valeria Vasquez

## Energy Business and Finance

Noah James Clickett

## Energy Engineering

Sol Ferrari

Ty Vaughn

## Environmental Systems Engineering

Abdulhameed Abdulhussain

## Geography

Christopher Scott Turnbull

## Geosciences

Halina Dingo

Riley M. Paul-Cook

Reed Plunkett

Caroline Claire Spengler

Frank E. Yetnick

## Materials Science and Engineering

Luke B. Stocker

## Petroleum and Natural Gas Engineering

Kareem John Tinsley Jr.

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Note: The information in this document was produced March 16, 2023, as an unofficial list of students who indicated intent to graduate for the spring 2023 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

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 23-68.



## 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

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- **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.

#### NETWORKING AND EVENTS



Make new **connections**, reconnect with classmates and friends, have **new experiences**, and be enriched by participating in the world's largest **alumni network**.

#### DISCOUNTS



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

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

To access a full list of membership benefits and to find your local Penn State Alumni Association chapter, visit:  
[alumni.psu.edu/newalumni](http://alumni.psu.edu/newalumni)

