

# Commencement

SPRING SEMESTER 2020



COLLEGE OF EARTH AND MINERAL SCIENCES

May 9, 2020





## **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!

# Commencement Program

## NATIONAL ANTHEM

Amina Faye '20, Musical Theatre, College of Arts and Architecture

## PRESIDING

Eric J. Barron, B.S., M.S., Ph.D.  
President of The Pennsylvania State University

## SPECIAL REMARKS

President Barron

## REMARKS AND INTRODUCTIONS

Nicholas P. Jones, B.E., M.S., Ph.D.  
Executive Vice President and Provost of the University

## AUTHORIZATION TO CONFER DEGREES

Mark H. Dambly, B.S.  
Chair, Board of Trustees

## RECOGNITION OF MERITORIOUS ACHIEVEMENT

Penn State Students

## CONFERRAL OF DEGREES

Presiding: Provost Jones  
Conferring: President Barron

## INDUCTION INTO ALUMNI ASSOCIATION

Randolph B. Houston, Jr., B.A., J.D.  
President, Penn State Alumni Association

## SPECIAL THANKS

Penn State Students

## PENN STATE ALMA MATER

Penn State Students  
Penn State Blue Band

# Marshals

## UNIVERSITY MARSHAL

**R. Allen Kimel**, B.S., M.S., Ph.D., Associate Teaching Professor of Materials Science and Engineering; Associate Head for Undergraduate Studies

## COLLEGE MARSHAL

**Saeed Abbas A. Aloqili**,  
Petroleum and Natural Gas Engineering  
Faculty Marshal: **Luis F. Ayala H.**, B.S., M.S., Ph.D., Professor of Petroleum and Natural Gas Engineering

## SCIENCE HONOR MARSHAL

**Karl P. Schneider**,  
Meteorology and Atmospheric Science  
Assistant Faculty Marshal: **Kevin A. Bowley**, B.S., M.S.C., Ph.D., Assistant Teaching Professor of Meteorology and Atmospheric Science

## DEPARTMENT MARSHALS

Energy and Mineral Engineering:  
**Faras Khalfan Ahmed M. Al Balushi**

Geography  
**Yu Zhong**

Geosciences  
**Sapol Raadnui**

Materials Science and Engineering  
**Simon G. Munyan**

Meteorology and Atmospheric Science  
**Laura Catherine Shedd**

# College Leadership

**Lee Kump**, A.B., Ph.D., John Leone Dean in the College of Earth and Mineral Sciences

**John Hellmann**, B.S., Ph.D., Senior 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

#PSUgrad

#EMSgrads

## Message from the Dean

You did it! 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 more proud of you and your accomplishment. I know we share that pride with your family and friends who have provided you support through your time at Penn State.



We are in the midst of a global pandemic, and from this perspective it's a bit challenging to see through to the bright future we know awaits you. The faculty have worked to provide you the sort of 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. 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

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## Baccalaureate Degree Candidates

### 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 3.96 GPA, Blue and White Honor Cord); 4 percent, Magna Cum Laude (minimum 3.88 GPA, Blue Honor Cord); 6 percent, Cum Laude (minimum 3.76 GPA, White Honor Cord). Distinction is based on cumulative GPA at the end of the fall 2019 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: ◇.

**Congratulations on your achievements!**

## Bachelor of Arts

### Energy and Sustainability Policy

Derek Scott Fisher

### Geography

Whitney Elizabeth Ashead  
Lindsey Rachel Fritz  
Zhiyuan Li  
Qizhi Qin  
Thomas M. Whalon

### Geosciences

Kearstin Patrice Crossan  
Lindsey Jacks ‡  
Bryce Panaro Kramer  
Eileen Reiley  
Matthew Gregory Roseboom

## Bachelor of Science

### Earth Science and Policy

Christina Santerian Boutselis ++ §  
Jordyn A. Hinkle  
Anfisa M. Kashkenova  
Joseph Bernard Mellinger  
Hannah Patel ‡  
Paul M Pietrinferni  
Thomas T. Tran +

### Earth Sciences

Carl Fredrick Guico Aquino  
Keanna Haney  
Yaolin Miao ++  
Daniel G. Mount  
Oluwatoyin Eyimofe Oresanya  
Zhuolai Pan  
Sarah Turner  
Junyin Xiao §‡

### Energy and Sustainability Policy

Joshua Creese Andresky ‡  
Angela Laurell Dunham  
Tyler Bryan Ebaugh  
Kenn Adam Fowler II  
Melanie Kownacky  
Eric Marsico  
Alexander Wolfgang Riedel  
Christopher Allen Stephens  
Cindy Marie Vegetabile  
Calvin Vieu  
Rachel A. Wiedewitsch

### Energy Business and Finance

Daniel Kofi Adofo  
Abdulrahman Alharbi

Michael Sean Allan, Jr.  
Syarina Huda Binti Aminondin  
Kyle Thomas Andersen  
Jack T. Arnold  
Sergio Avila  
Benjamin William Basler  
Zachary A. Bawduniak  
Ryan Gregory Blank  
Mitchell Bryk  
Rachel A. Buczkowski  
Joshua James Cahill  
Austin Emerson Campbell  
Patrick Owen Carroll  
Ethan Mark Cohen  
Corinne Nicole Costello  
Christopher Joseph Destefano  
Elizabeth T. Drawl  
Steven A. Ennis  
Stuart V. Ferguson +  
Ryan Vaughn Galloway  
Mark Gibson  
Anthony E. Grider  
Ahmed Maged Aly Hamed ‡  
Lakshmi Hirpara  
Dave Jules  
Ian Thomas Kennedy  
Austin Kronick  
Roy Yu-Hao Lo  
Brady Luffy +  
Timothy Uchechukwu Mbakwe  
Stephen Thomas McCarrick  
Matthew McDevitt  
Michael Austin McKently  
Yaolin Miao ++  
Matthew Gedeon Mihaly, Jr.  
Jacob M. Mitchell  
Matthew Milan Mitrovic  
Ryan Stephen Morse  
Jack Ryan Myers  
Yanira Nascimento  
Alexander Gene Nicholas  
Amanda Margaret Nicotra  
Erick Steve Noriega  
Jake Kenneth Reagan  
Sean Takanao Saltzgaber +§  
Daniel Schneiderman  
Christian Riley Sload  
John Devins Staropoli  
Connor John Sullivan  
Kyle A. Taryla  
Enlin Wang  
Jake Thomas Weimert  
Curtis Henry Wilhelm  
Danielle Lynn Witmer +  
Cole Edward Wolf  
Patrick Ryan Wolfrom

Nathan S. Woodman §  
Junyin Xiao §‡  
George Xourias  
Yitian Yuan

### Energy Engineering

Muhammad Khairul Abdul Shukor  
Rawan Abu-Zaineh  
Hamad Mohammed Saleh Jahri Alyafei  
Jamihl Dende Braimah  
Garrett Freeborn Brown  
Maxfield Tyler Canto  
Harlan Kreigh Collins  
Liam P. Cummings ‡  
William Paul Fadel  
Trevor W. Faust  
Scott M. Forbes  
Nicholas Joseph Gorgone  
Nathan Amare Haile  
Ahmed Maged Aly Hamed ‡  
Evan Palmer Harshbarger  
Nicholas Hope  
William Joseph Kane III  
Majed Khalaf  
Michael Paul Kurtz  
Nisha Rae Labroo  
Tanner James Leahey  
Patrick McGinn  
Matthew John Montanari  
Alex Justin Morgan  
Samuel V. Murphy  
Caleb Tinashe Musekiwa  
Zachary Musser  
Abigail Oberdorf  
Kathleen O'Hare  
John Michael Palfy, Jr.  
Sean Takanao Saltzgaber +§  
Olamide Michael Satimehin  
Marcus David Schmerfeld  
Patrick C. Schulze  
Renaldo Ethan Springer  
Robert Cooke Stafford  
Jonathan Michael Tatem  
Ian Wasserman ++‡  
Richard J. White  
Connor Williams  
Mitchel Joseph Williams  
Matthew Witt  
Sydney Yeadon ‡  
Jacob Alan Young  
Taylor A. Young ‡

### Environmental Systems Engineering

Carson Lee Berkheimer  
Jessica Rachael Blat

Arthur Coolbaugh  
Laura Samantha Davis  
Courtney Anne Dumm ++\$‡  
Timothy Marvin Elston  
Zexian Guan  
James W. Heim II  
Angela Heisinger  
Noelle Marina Ihanainen  
Alex Kubala  
Weixin Li +++  
Jiawei Liu ++  
Yichen Liu  
Yichen Lyu  
Gina N. Maiorana  
Corby Michael Milliron  
Lauren Musselman  
Stacy Nelson  
Evan Robert Papak  
Jasneet Kohli Singh  
Robert E. Swartz  
Luyao Wang  
Taoshui Wang  
Yunsen Wang  
Haoyang Xu  
Yufan Xu  
Jovanna Marie Yenchi  
Fengkai Zhang  
Junming Zhang  
Linze Zhang

### **Geobiology**

John A. Fulginiti

### **Geography**

Erin Elizabeth Arndt  
Kayla M. Bancone  
Marianne Black  
Samuel O. Black  
Daniel Matthew Bowling  
Bryce David Buck ++\$  
Zachary Jonathan Bunting  
Ethan Logan Culver  
Marc Anthony Di Placido  
David Eckert  
Kathryn Elizabeth Giesa  
Xiao Han  
Kelly Ann Meehan  
James Reid Mercatoris-Morrison, Jr.  
Joseph M. Nadonley  
Matthew Clinton Sickel  
Zane Ryan Unitas  
Yu Zhong ++\$

### **Geosciences**

Nouf Waleed O. Alsaad  
Fatin Fariyah Binti Baharudin  
Alyssa M. Barr

Jason Beck ‡  
Elizabeth Ellen Block  
Nicholas Anthony Crescenzo  
Porraket Dechdacho +  
Dion Antony Furfaro  
Catherine Gagnon +  
Hee Chan Ju  
Matthew Connor Leddy ++  
Emily Loucks §  
Danial Fitri Bin Md Sukor  
Muhammad Faris Zafir Bin Mohamed Zaini  
Lukman Nurhakim Bin Mohd Asri  
Nuriffa Syahira Binti Mohd Najib  
Emma Ann Osenbach  
James Eric Pippin  
Sapol Raadnui +++\$‡  
Iman Nasuha Binti Rosland  
Alexandra Marie Catherine Sabattier  
Christine Renee Tamburri  
James L. Tierney §  
Muhamad Nazmi Bin Yusri  
Amir Aiman Bin Zaidy +

### **Materials Science and Engineering**

Vatsal Agarwal  
Ahmed Mohammed S. Alqahtani  
Faris Hassan A. Almohamed  
Rajeh Salah R. Alsaadi ++\$  
Bryce R. Berger  
Jeslymar Berrios  
Arshiya Bhadu  
Thomas F. Bina §  
Cameron F. Blanchard +\$  
Chelsea Nikole Bush  
Alexander Nickolas Caputo ++\$  
Timothy E. Charatan ‡  
Noah Christie  
Brianna Lin Cimino  
Luke Kiernan Stone Clemente  
Matthew Joseph Cole  
Jayce Coleman ‡  
Kylie Donahue Creamer ◊  
Ana Isabel De La Fuente Duran +++  
Jerrid Demeck  
Weihang Du  
Jack T. Eckstein  
Tianyi Fu  
Emily Ann Fucinato  
William Ridgely Fullerton  
Nicholas Theodore Gigliotti ++\$  
Nathan Jarrett Goldner  
Devin Kirk Goodling  
Christian Albright Graff  
Gavin Travis Hennessey  
Caleb Hric

Muhammad Jarrar  
Andrew Henry Johnson ++\$  
Dalton A. Keba ++‡  
Micah Keller  
Katie A. Kertis  
Katelyn Alyssa Kirchner ++\$‡  
Abbey Marie Knoepfel  
Dongjoo Koh  
Yuran Kong ‡  
Jin Wook Lee  
Edward Weide Li  
Ying Li  
Zhichang Liu  
Zhiyang Lu  
Simon G. Munyan +++\$  
Michael Muthoka  
Prapassorn Numkiatsakul  
Keith Ostrowski  
Dashiell P. Papula  
Jihoon Park  
Alexander J. Paterson  
Jonathan Anthony Perini  
Sara Parisa Pourhashemi  
Chenhao Qian +  
Brett N. Rosoff-Verbit ‡  
Nina G. Rosporski  
Tyler D. Snyder  
Julia Soalheiro  
Lu Song  
Sergei Pavlovich Stepanoff +  
Kesvin Wen Chimm Tan  
Anbang Teng  
Jacob Daniel Waldman §  
Jeffrey Wang  
Ravisara Wattana +\$  
Ian J. Wietecha-Reiman §  
Jiawei Wu  
Zheyu Xu  
Christina M. Youwakim  
Chen Ta Yu  
Minjung Yun  
Xinye Zhao +++\$

### **Meteorology and Atmospheric Science**

Erika Renee Algard  
Diana Katherine Apoznanski ‡  
Matthew Lawrence Brudy  
Caitlyn Bumbarger  
Sarah Caroline Carroll  
Thomas Carvo  
Dwight Andres Charkiewicz  
Benjamin P. Davenport  
Kelsey Decarteret ‡  
Karen Dedinsky ‡  
Matthew Dempsey  
Jennifer Anna D'lorio +\$‡

Taylor A. Fries  
Samantha R. Greaser  
Nicola J. Guisewhite ‡  
Matthew F. Hoenig  
Peter Hoholick  
Jordyn J. Kosiencki  
Cheyenne Eliza Land  
Sean William McFadden  
Paul Stephen McGlynn  
Ryan Stephen Morse  
Ross W. Mummah  
David Munyan +  
Zachary Russell Petey  
Jake Kenneth Reagan  
Kasey Concetta Reigner  
Jordan L. Santillo  
Karl P. Schneider +++§  
Laura Catherine Shedd +‡  
Joseph Speir  
Michael James Susko  
La Troy Thornton  
Brock W. Townsend  
Garett R. T. Warner  
Logan J. Williams  
Matthew Joseph Yarosewick

### **Mining Engineering**

Jacob Bradley Adams  
Joelson Patricio Manuel Alves  
Jack T. Arnold  
Wilmar Adalberto Beia  
Weza Gabriela P. Dack  
Manuel Fernandes Frutuoso Filho  
Kiazoa Maria Joao  
Eurico Jamba Madureira  
Brandon Anthony Matejik  
Eliane Alexandre Da Costa Muanza  
Emmy Muhoza  
James Peterson  
Jose Priante Quiala  
Valdneide Victoriano Silva  
Tyler Blair Turcheck  
Qixuan Wen

### **Petroleum and Natural Gas Engineering**

Abdallah Abulaban  
Oluwaferanmi Kolade Akinpelu  
Faras Khalfan Ahmed Mohammed Al Balushi +++  
Sara Abdrabarsol M. Alabuhsaud ++  
Faisal Khalid R. Albuainain  
Abdulrahman Majed F. Albukhari  
Ali Muhammad I. Aldhamen  
Abdullatif Arif A. Alhamam  
Abdulrahman Alharbi

Salman Saad F. Aljindan  
Sheikha Abdullah Suhail Almaamari +  
Saeed Abbas A. Aloqili +++  
Basmah N. Alotaibi  
Abdulrahman Waleed A. Alrumaih  
Omar Sulaiman Ali Alshueili  
Abdulaziz Qasem M Alsuwaidi  
David Phillip Aul  
Alaba Abdulbaqi Balogun-Kuku  
Basem Barbary  
Veronica Christine Bauman  
Jacob Burch  
William J. Carr III ++  
Sam Collura +  
Paul Richard Detwiler, Jr.  
Blake Dickey  
Maram Qais M. Ejaimi  
Wallace Joseph Frost, Jr.  
Mark Hajnoczky  
Nora Hamidaddin  
Ali Hamza  
Robert William Hilbig  
Cassidy R. Himmelberger  
Uzoezi Emmanuella Isaac-Onwah +  
John Michael Karinch  
Mustafa Rashid M Kidwai  
Timothy Michael Lang  
Joshua Paul Langevin +  
Junchi Ma  
Duc Quang Pham  
Timothy Radwanski  
Jonathan Alexander Rieco  
Cole Edward Wolf

## **Summer 2020 Degree Candidates**

Students who requested to be listed by April 1, 2020, and who have 8 or fewer credits to complete their degree programs are listed below.

### **Earth Science and Policy**

Wesley Hoffer

### **Energy and Sustainability Policy**

Charles Pierce Jones III

### **Energy Business and Finance**

Vedant Y. Ajmera  
Ryan Alex  
Kenny Fan  
Andrea Jakubowski  
Curtis McGriskin  
Peter Jason Spiotta, Jr.

### **Energy Engineering**

William Evan Buzan  
Abhigyan Gupta  
Shlok Kulshrestha  
Philip N. Mortillaro  
Opoola Dapo Omotoba  
Michael Richard Spero  
Timothy S. Zanas

### **Environmental Systems Engineering**

John David Gruver, Jr.

### **Geography**

Milan Liu

### **Geosciences**

Albina Alzhanova  
Dana Bloomfield  
Samuel Elliott  
Whitney Marshall  
Katherine Reilly

### **Materials Science and Engineering**

Promi Islam  
Ian Douglas Macdowall  
Yizheng Liu  
Aniket Jay Patel  
Matthew Christopher Reczynski

### **Mining Engineering**

Edgar Liberato

### **Petroleum and Natural Gas Engineering**

Baron Nnamno Mbakwe

**Note:** The information in this document was produced April 30, 2020, as an unofficial list of students who indicated intent to graduate for the spring 2020 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 Martha Traverse, [mjt5@psu.edu](mailto:mjt5@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 **unlimited online storage** and a collection of digital tools.

#### DISCOUNTS



Members receive **access to discounts** including travel and 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!**

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)**





