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!

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**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

#PSUgrad
#EMSgrads

 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.Sc., Ph.D., Assistant Teaching Professor of Meteorology and Atmospheric Science

DEPARTMENT MARSHALS

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
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

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 Ashed
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.
Syrina 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 Witter +
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
Jamilh Dende Braimah
Garrett Freeborn Brown
Maxfield Tyler Canto
Harlan Keigh 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 Farihah 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 Demecck
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
Dashiel 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 Brady
Caitlyn Bumbarger
Sarah Caroline Carroll
Thomas Carvo
Dwight Andres Charkiewicz
Benjamin P. Davenport
Kelsey Decarteret §
Karen Dedinsky §
Matthew Dempsey
Jennifer Anna D'Iorio +++§
Taylor A. Fries
Samantha R. Greaser
Nicola J. Guisewhite‡
Matthew F. Hoenig
Peter Hoholick
Jordyn J. Kosienski
Cheyenne Eliza Land
Sean William McFadden
Paul Stephen McGlynn
Ryan Stephen Morse
Ross W. Mummah
David Munyan +
Zachary Russell Petey
Jake Kenneth Reagan
Kasey Consetta Reigner
Jordan L. Santillo
Karol 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
Elaine Alexandre Da Costa Muanza
Emmy Muhoza
James Peterson
Jose Priante Qiala
Valdeinei Victoriano Silva
Tyler Blair Turcheck
Qixuan Wen
Salman Saad F. Aljindan
Sheikha Abdullah Suhail Almaamari +
Saeed Abbas A. Aloqili +++
Basmah N. Alotaibi
Abdulrahman Waleed A. Alrumaih
Omar Sulaiman Ali Alshueiel
Abdulaziz Qasem M Alsuwaidi
David Phillip Aul
Alaba Abdulbaki 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
Uzoesi 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

Energy Engineering
William Evan Buzan
Abhiyan Gupta
Shlok Kulshrestha
Philip N. Mortillaro
Opoopa Dapo Omotobob
Michael Richard Spero
Timothy S. Zanaras

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

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.

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.
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)