

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

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
Cristina 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.



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

