



EMS COLLEGE DIGEST – August 8, 2022, Issue

OFFICE OF THE DEAN

Final reminder! Please join us for the Faculty Celebration of Accomplishment - Thursday, August 25 from 4:00 – 6:00 p.m. in 603 Barron Innovation Hub. See the invitation appended to the end of this pdf for more details (all staff, faculty, emeritus faculty, and post docs are welcome to attend).

Energy Institute Director Search

Presentation by Arash Dahi Taleghani - Professor and Quentin E. and Louise L. Wood University Endowed Fellow in Petroleum and Natural Gas Engineering and Candidate for Director of the EMS Energy Institute - Wednesday, September 7, 2022, from 2:30 – 4:00 p.m. on Zoom at <https://psu.zoom.us/j/93131897783?pwd=SmVQZE43MitSeVcxK1FmWEI0V25Bdz09> and in 603 Barron Innovation Hub. All faculty, postdocs, and staff are welcome to attend. The presentation will also be recorded. Please contact Meranda Kaiser at mlp5247@psu.edu to request a link to the recording.

A vision for EMS Energy Institute; Navigating a Transition

In this talk, we review recent developments in the energy sector and the role that EMS Energy Institute can play in addressing some of the technology challenges in pursuing secure, economic, and low-emission energy sources. A rapid energy transition to very-low or zero-carbon sources requires mitigating a considerable number of roadblocks limiting generating renewable energies on commercial scales. Soaring energy costs and supply shocks triggered by the war in Europe have added to these complexities and prompted some countries to put more weights on energy security. Despite these challenges, the energy transition will be an ongoing process to expand low carbon energy sources. The energy transition is imposing significant structural changes in the energy systems regarding supply and consumption, however, some of these new problems can be addressed by existing solutions developed initially for fossil energies. EMS Energy Institute has been an active research organization in energy science and engineering for couple of decades. Although, the energy transition may limit available funding for some of the classic areas of research, but it also provides a historical opportunity to redefine the research portfolio of the institute and expand into new research areas to meet new expectations and technology needs.

MARKETING AND COMMUNICATION - Calling all faculty, staff, and students!

The college's Marketing and Communications Office is holding a series of outdoor photo shoots and all EMS faculty, staff, and students are invited to have their picture taken. These will be professional headshots for use on college and department web directories and in other marketing materials. Participants will receive digital copies We especially need photos from all new EMS faculty and staff!

When: Below are the dates and times (weather dependent) for walk-in sessions. **Note:** no preregistration is required.

Upcoming: Tomorrow, Tuesday, August 23: 10:30 a.m. – 1:00 p.m. (rescheduled date) and Wednesday, September 7: 10:00 a.m. – 1:00 p.m.

Where: All sessions will take place outside the main entrance to the Deike Building that faces Burrowes Road. Sessions will take less than five minutes.

Please help distribute to all: Please help distribute to all. No appointment necessary, just stop by to get a professional headshot. PLEASE come and have your photo taken!

Questions: David Kubarek | Email: dak207@psu.edu | Phone: 814-424-3402.

FACILITIES – Masking Guidance

With the semester starting, this is a good time to remind everyone of the slight change in masking guidance that was announced over the Summer. This change in guidance comes from a better understanding of the virus. The current guidelines on masking is as follows:

- The University strongly recommends face masks be worn indoors on campuses in counties designated by the Centers for Disease Control and Prevention (CDC) to have high **COVID-19 Community Levels**.
- Even on campuses in counties with low or medium COVID-19 Community Levels, the University encourages anyone who wishes to wear mask indoors on these campuses to continue to do so.
- Face masks are required in facilities providing health care and in other locations where required by law, including indoors at the College of Medicine, Penn State Health locations, University Health Services and other campus health care centers.
- **Masks also are required for some in-person human subjects research.** Masking is optional for in-person human subjects research that recruits healthy participants; for studies recruiting high-risk participants (as **defined by the CDC**), masking continues to be required for both participants and study team members at all indoor locations.
- Employees at Penn State who work in their own individual offices on mask-optional campuses may request that visitors wear masks while in their private offices, and faculty may request that their students wear masks during classes. The University asks that community members cooperate respectfully with these requests.

Source: <https://virusinfo.psu.edu/health-guidelines/> This story with the same information was also released on August 1st: <https://www.psu.edu/news/campus-life/story/university-continue-providing-resources-mitigate-spread-covid-19>

Please note that “strongly recommends” does not mean that wearing a face mask is required. As noted above, everyone should be respectful and cooperate, and be reasonable if any conversations about this are needed.

Questions: Frank Driscoll, Facilities Manager, fjd3@psu.edu

NEWS FROM ANDY NYBLADE, Professor and Head of the Department of Geosciences

I am pleased to announce that Amy Hasan will be joining the department on September 1 as our lead staff administrator (Academic Support Coordinator 5 position), replacing Amy Homan, who retired on August 5. From September 1-23, Amy will work 50% in the department while she transitions from her current position in the Department of Computer Science and Engineering and will be full time starting September 26. Amy comes to us with years of experience, and we are very fortunate to have her join the department. Amy was the lead staff

administrator in the Department of Computer Science and Engineering from 2013-2019, and for the past four years has been managing an NSF center in that department. Please join me in extending a very warm welcome to Amy!

UNDERGRADUATE/GRADUATE EDUCATION

Reminder! Time to Submit Fall 2022 Course Reserve Lists to the Libraries

Please submit your course reserve lists **as soon as possible** in order to have materials available when classes begin. If you would like to know if a book or other resource is available in e-format, please contact us at EMSL@psu.edu. [This page](#) offers suggestions for how to replace or supplement materials that students may have limited access to in print format. Note: If you are advising any grad students who are teaching this semester, please forward this email to them.

Submit your course reserve list to the EMS Library by choosing one of the following two options (do not respond to this email):

1. **Use request forms:**
 - To request articles, chapters, course notes, or other material, use the [electronic reserve request form](#)
 - For other materials, use the [book/media reserve request form](#). (Remember to change Campus to "University Park" and Library to "Earth & Mineral Sciences")
 - To reactivate previous electronic reserve items, use the [reserve reactivation request form](#)
2. **Send an email to EMSCR@psu.edu and include the following information:**
 - Course Number (ie. GEOSC 599)
 - Course Title (ie. Geology Research and Methods)
 - Instructor's Name
 - Instructor's Access ID (ie. xyz123)
 - Instructor's Address, phone, and email
 - Title, Author, Edition, and Publication Date

Reserves lists, along with a course or subject guide, should be automatically available in Canvas courses on the Library Resources page. The [Libraries' course reserves page](#) has additional information. Also available [here are instructions](#) to link to a specific course or research guide in Canvas.

GRADUATE EDUCATION AND RESEARCH

Applications open for the Stanford Science Fellows Post-Doctoral Fellowship Opportunity

The [Stanford Science Fellows program](#) invites [applications](#) from outstanding graduating doctoral students and early career postdoctoral scholars (no more than three years from degree and no more than two years of prior postdoctoral experience by the start of their term) with a clear intellectual drive to advance foundational research in the natural sciences and a strong commitment to engage collaboratively with a diverse community of scholars. Stanford Science Fellows are an interdisciplinary community of exceptional postdoctoral scholars from around the globe whose work is driven by a sense of wonder about the natural world. Stanford's top-ranked science and engineering departments, as well as its many interdisciplinary laboratories and research institutes, are situated in close proximity to each other on campus, providing a wide range of opportunities for collaboration. Stanford Science Fellows will have access to faculty and facilities within Stanford's Schools of Humanities and Sciences, Engineering, Medicine, Earth, and Sustainability as well as at the SLAC National

Accelerator Laboratory. Stanford Science Fellows will hold primary appointments in the academic unit appropriate to their research interests. In addition to generous compensation and benefits, Fellows also receive research, travel, and relocation allowances. Fellows must be eligible and available to start their terms between July 1 and September 1, 2023. To apply, please upload the following materials by October 14, 2022: • A cover letter; • A curriculum vitae including publications, full legal name, contact information, and (expected) date of PhD, which must be received by the start of the fellowship; • Email addresses of the writers of three letters of recommendation, which must be received by October 14. A letter from the candidate's PhD advisor is advised; • A statement of up to two pages about the candidate's career goals, relevant experience, and how the candidate would contribute to the goals of the Stanford Science Fellows program; • A research statement of up to two pages addressing the following questions: What is the candidate's research problem? What does the candidate expect to accomplish on a 3- to 5-year timescale? Why is Stanford the best place for the candidate to pursue these goals? To receive full consideration, all application materials--including recommendation letters--must be received by **October 14, 2022**. Application Link: <https://academicjobsonline.org/ajo/jobs/22268>

LIMITED SUBMISSION: 2023 Blavatnik National Awards

We are pleased to announce the launch of **2023 Blavatnik National Awards** limited submission. Click on the link below to view more information. Thank you.

Internal Submission Deadline: Tuesday, September 27, 2022

Funding Organization's Deadline: Wednesday, November 9, 2022

Cycle: 2023

Discipline/Subject Area: Life Sciences, Physical Sciences & Engineering, and Chemistry

Funding Available: 250000

URL: <http://blavatnikawards.org/awards/national-awards/nomination-guidelines/>

Number of applications per organization: One in each of the Blavatnik disciplinary categories (Life Sciences, Physical Sciences & Engineering, and Chemistry)

Description: The Blavatnik National Awards honor America's most innovative and promising faculty-rank scientists and engineers. Every year, one Blavatnik National Awards Laureate in each disciplinary category will receive \$250,000 in unrestricted funds, and additional nominees will be recognized as Finalists. Penn State is invited to nominate up to three outstanding young faculty members, one in each of the three disciplinary categories: Chemistry, Physical Sciences & Engineering, and Life Sciences. The Blavatnik Awards for Young Scientists strives for nominee equality and diversity, and encourages institutions to consider nominations of women and members of other historically under-represented groups in science and engineering.

ELIGIBILITY - The nominee must:

- Have been born in or after 1981*.
- Hold a doctorate degree (PhD, DPhil, MD, DDS, DVM, etc.).
- Currently hold a faculty position at an [invited institution](#) in the United States.
- Currently conduct research as a principal investigator in one of the [disciplinary categories](#) in Life Sciences, Physical Sciences & Engineering, or Chemistry.

*Age limit exceptions will be considered by the Academy in exceptional circumstances upon a detailed written submission from the nominating institution received by the Academy at blavatnikawards@nyas.org no later than Wednesday, November 3, 2021.

Previously nominated individuals who were not selected as Laureates in past Awards cycles may be nominated again. The Blavatnik Awards strongly encourages all those submitting

nominations to the Awards—including institutional nominators, Scientific Advisory Council members, and past Blavatnik Awards Laureates—to diversify the population of candidates nominated for this Award. **Nominating institutions are encouraged to consider candidates across the institution**, focusing on the scope of the candidate’s work and its relevance within a given scientific category. For example, an institution can nominate a Chemistry nominee who is not based in the Chemistry Department, but is leading a research program in one of the [disciplinary categories](#) covered by the Chemistry section of the Blavatnik Awards.

EVALUATION CRITERIA - Nominees and their work as independent investigators will be evaluated according to the following criteria:

- Quality: The extent to which the work is reliable, valid, credible, and scientifically rigorous.
- Impact: The extent to which the work addresses an important problem, advances scientific progress, and is influential in the nominee’s field, related fields, or beyond, and/or has the potential to benefit society.
- Novelty: The extent to which the work challenges existing paradigms, establishes a new field or considerably expands on an existing field, employs original methodologies or concepts, and/or pursues an original question.
- Promise: The nominee has potential for further significant contributions to science, and the research program will generate further impactful and novel discoveries.

Internal Nomination Process: Institutional nominations must be submitted by the institution’s official nominator—the institution's President, Provost, or equivalent (or their official designee). Please do not contact or have someone contact the Foundation on your behalf. Questions or clarifications should be directed to Karen Kemirembe, Ph.D., Assistant Director, Foundation Relations (kuk195@psu.edu). Interested applicants should send the following documents in sequence in one PDF file (File name: Last name Blavatnik NYAS_2023.pdf) no later than 4:00 p.m. on the internal submission deadline:

- CV
- 1000 word research statement. **One figure** illustrating the most significant results is allowed. Citations and figure caption do not count toward the word limit.
- Name, position, and institution for two individuals familiar with nominee’s scientific contributions who will provide letters of support.

Questions concerning the limited submissions process may be submitted to limitedsubs@psu.edu. The Office of Foundation Relations at University Park is also available to help you navigate the process and respond to questions regarding the Foundation. Please contact Karen Kemirembe, Ph.D., Assistant Director, Foundation Relations (kuk195@psu.edu) for additional support.

EDUCATIONAL EQUITY, DIVERSITY, AND INCLUSION

All Campus LGBTQ+ Welcome Reception presented by the Center for Sexual and Gender Diversity

Monday, August 29 from 4:30 – 6:00 p.m. in the Alumni Hall – see flier appended to end of this pdf.

Diversity, Equity, and Inclusion Workshops

Designing Inclusive Learning Experiences Using the “Who’s in Class?” Survey: This workshop will introduce the "Who's in class?" survey (Addy et al., 2021), a tool you can use to uncover

aspects of your students' identities that might impact their learning. You will examine a template of the survey and consider how you might adapt this for your own courses. You will have an opportunity to discuss the process of using student survey responses to make your courses more inclusive. Wednesday, November 9, 2022, 12:00-1:00 p.m. [SITE Events](#)

An Introduction to Inclusive Teaching: As we question our assumptions about what teaching and learning could and should look like, we will explore Inclusive Teaching, which is both a set of techniques and a mindset. Join us for this 60-minute introduction to Inclusive Teaching.

Monday, August 22, 2022, 2:00-3:00 p.m. [SITE Events](#)

DEI Journal Club: Are you interested in learning more about the research on diversity, equity, inclusion, and accessibility and how they apply to teaching? We invite you to join our DEI Journal club. Sessions will be hosted on Zoom every other week throughout the semester, and each session will focus on a separate article. Fridays, 2:00 - 3:00 p.m. starting Friday, September 9th [SITE Events](#)

A Path to Decolonizing the Syllabus: The syllabus conveys important information about the course and also signals our approach to teaching and learning. In this interactive workshop, participants will discuss what it means to decolonize curricula and syllabi, where we might begin the process, and how collaborations might support this work. Friday, October 28, 2022, 1:00-3:00 p.m. [SITE Events](#)

DUTTON E-EDUCATION INSTITUTE

From Penn State's Open and Affordable Educational Resources (OAER) Working Group - Entering Free and Low-cost Course Materials in the Adoption Insight Portal (AIP)

As you prepare for the coming semester, I want to ask you a favor on behalf of your students and the University's Open and Affordable Educational Resources (OAER) Working Group: *Please enter information about ALL of the course materials you are using into Barnes & Noble's [Adoption Insight Portal \(AIP\)](#), even if you are using free or low-cost resources!* More information can be found in the attached "OER Reminder." Thank you in advance! Co-Chair of OAER, Annie Taylor

Teaching and Learning Support Available!

Want to take your teaching to the next level? Is there something you'd like to adjust in your class to make it work better for both you and your students? Whether you teach face-to-face, online or a bit of both, the Dutton Institute's Learning Design Team is here to help you...and consultations are free! When you partner with the Dutton Institute's Learning Design Team, you are enlisting a team of experts to support your teaching, including learning designers, multimedia specialists, programmers, technical editors, and accessibility specialists. We bring a broad and deep knowledge of current learning science research and powerful teaching and learning strategies to bring your course and your teaching to new levels! Contact our Director of Learning Design, Stevie Rocco, for assistance at stevier@psu.edu. You can also learn more about us at <https://www.e-education.psu.edu/learningdesign>

FOR MORE INFORMATION ABOUT THE EMS DIGEST:

- Please contact Nicola Kiver at nmk17@psu.edu or Olivia Butts at orr3@psu.edu.



John Mauro
National Academy of Engineering



Susan Trolier-McKinstry
Evan Pugh University Professor



Lee Kump
National Academy of Science

The Department of Geosciences and the Department of Materials Science and Engineering invite you to a

Faculty Celebration of Accomplishment

Hors d'oeuvres reception

Thursday, August 25, 2022
603 Barron Innovation Hub
4 - 6:00 p.m.

