



EMS COLLEGE DIGEST – September 6, 2022 Issue

OFFICE OF THE DEAN

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

“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.

Tomorrow, Wednesday, September 7, 2022, from 2:30 – 4:00 pm on Zoom at <https://psu.zoom.us/j/93131897783?pwd=SmVQZE43MitSeVcxK1FmWEIOV25Bdz09> 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.

Marketing and Communication - calling all faculty, staff, and students!

The college’s Marketing and Communications Office has been 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: Tomorrow, Wednesday, September 7: 10:00 a.m. – 1:00 p.m. (final date)

- Where: 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, dak207@psu.edu | Phone: 814-424-3402

GRADUATE EDUCATION AND RESEARCH

Annual Effort Certification

Thank you to all Principal Investigators and Department/Institute Heads for your timely approval of Effort Certifications. Our status as of 9/1/2022:

- Fully Certified: 385 😊
- Awaiting PI Approval: 56
- Awaiting Dept/Inst Head Approval: 8

Please continue to review and approve all Effort Certifications in your SIMBA inbox in a timely manner.

CSATS Pilot Test for Broader Impact Toolkit

The NSF-funded Advancing Research Impact in Society (ARIS) Center has developed a suite of tools to support researchers and other proposers who must develop broader impacts plans as part of grant proposals. Penn State's [Center for Science and the Schools](#) (CSATS) is overseeing the pilot test at Penn State, and they would like to share these resources with faculty, have them review and use them for preparing and/or evaluating Broader Impact plans, and then gather feedback about the usefulness of the tools (via survey and/or brief interview). The link to the form for researchers to request access to the BI

Toolkit: <https://forms.office.com/r/PJAK06wRM3>

Foundation Funding Opportunities

The Penn State Office of Foundation Relations (OFR) announces the following list of recently posted foundation RFPs or Letters of intent potentially relevant to EMS through Dec 1. OFR's staff contacts to initiate proposals are listed in each hyperlinked posting.

- Arnold and Mabel Beckman Foundation: [Building Portable Mass Spectrometry Systems for Atmospheric Monitoring](#) RFP. **Subject area:** Physics, Chemistry, Engineering, Mass Spectrometry, Instrument Design. **Amount:** \$1M over 3 years **Deadline:** Nov 18, 2022
- Blavatnik Foundation: [2023 Blavatnik National Young Investigator Awards \(Limited Submission\)](#). **Subject area:** Life Sciences, Physical Sciences & Engineering, and Chemistry **Amount:** \$250K **Deadline:** Sept 27, 2022 (Internal), Nov 9, 2022 (external)
- American Chemical Society: [Doctoral New Investigator \(DNI\)](#) Grants. **Subject area:** Organic Chemistry, Inorganic Chemistry, Geochemistry, Geophysics, Physical Chemistry, Chemical and Petroleum Engineering, Materials Science, Surface Science, Polymer Science **Amount:** \$110K over 2 yrs **Deadline:** Oct 14, 2022
- American Chemical Society: [New Directions](#) Grant. **Subject area:** Organic Chemistry, Inorganic Chemistry, Geochemistry, Geophysics, Physical Chemistry, Chemical and Petroleum Engineering, Materials Science, Surface Science, Polymer Science **Amount:** \$110K over 2 yrs **Deadline:** Oct 14, 2022
- Howard Hughes Medical Institute (HHMI): [Freeman Hrabowski Scholars Program](#). **Subject area:** Basic biomedical science, as well as plant biology, evolutionary

biology, biophysics, chemical biology, biomedical engineering, and/or computational biology. **Amount:** \$8.6M over 5-10 years **Deadline:** Sept 28, 2022

- Templeton Foundation: [Theory-Experiment Cross Training \(TEX\) Fellowship](#). **Subject area:** Theory/experiment cross-training graduate fellowship in fundamental physics, astronomy, or cosmology. **Amount:** up to \$250K over 2 yrs **Deadline:** Sept 30, 2022
- Environmental Research and Education Foundation: [General RFP](#). **Subject area:** Solid waste research and education, sustainable solid waste management, recycling, waste minimization, composting, upcycling, landfilling. **Amount:** Up to \$200K over 2 years **Deadline:** Dec 1, 2022
- Whitehall Foundation: [Grants-in-Aid](#). **Subject area:** Invertebrate and vertebrate (excluding clinical) neurobiology, specifically investigations of neural mechanisms involved in sensory, motor, whole organism function **Amount:** \$30K for 1 year. **Deadline:** Oct 1, 2022

UNDERGRADUATE EDUCATION

Welcome Back Cake and Ice cream Social

The Ryan Family Student Center will be hosting a Welcome Back cake and ice cream event, including a meet and greet with our new members, Dr. Aslam and Phil Nelson tomorrow, Wednesday, September 7 at 11:30 am (see flyer to the right). The event will be open to EMS students, staff, and faculty. We will be serving Creamery ice cream (Death by Chocolate, Earth and Mineral Sciences Bittersweet Mint, and Vanilla).

Gladys Snyder Grants

The call for proposals for Gladys Snyder grants (up to \$5,000) will be going out later this month. Watch for an email from your department head. These grants support professional activities for qualifying faculty in the College of EMS in the areas of teaching innovation and research. Applicants must have fewer than five years as Penn State faculty and can be either non-tenure-line or pre-tenure faculty. Start thinking!

Thanks from TEEMS!

The team for TEEMS (Total Engagement with EMS) extends a heartfelt thank you to all faculty, staff, and alumni who helped with the move-in event or attended the faculty/adviser/alumni dinner at Lake Raystown! Your involvement is critical to the success of TEEMS and is greatly appreciated. With your efforts, almost one hundred first-year EMS students were welcomed into the EMS community. We also thank Karen Marosi for taking the reins of the TEEMS program after the departure of James Kelly, ensuring a smooth transition and successful event!

OL 1400: Integrative Thinking in Teaching and Learning

If you are thinking of developing a course to meet the General Education integrative thinking (interdomain or linked courses) requirements, you might be interested in the Faculty Development course in the attached flyer. More information can be found [at this link](#).

EDUCATIONAL EQUITY, DIVERSITY, AND INCLUSION

EMS Graduate Student Peer Mentoring and Engagement Program

Fall Welcome Mixer – Friday, September 16 from 4:30 – 6:00 pm at Sunset Park, Pavilion 1 – all graduate students, faculty, and staff are invited to attend!



RSVP

Safer People Safer Places Network and Rainbow EMS Network

For those who are interested in participating in the Safer People Safer Places Foundations workshops to become a member of the Penn State Safer People Safer Places Network or in following up with the advanced training, Safer People Safer Places Transgender and Gender Inclusion Workshop, the fall workshop series offers in person and virtual attendance options. Workshops are open to faculty, staff, postdocs and graduate students. More information is available at <https://studentaffairs.psu.edu/csgd/be-informed/faculty-staff-lgbtq-workshops>

Safer People Safer Places Foundations workshops

[Registration: Tuesday September 13, 8:00 a.m. to 10:00 a.m. \(In-Person\)](#)

[Registration: Monday October 3, 9:00 a.m. to 11:00 a.m. \(In-Person\)](#)

[Registration: Thursday November 10, 9:00 a.m. to 11:00 a.m. \(Virtual\)](#)

**Safer People Safer Places Transgender and Gender Inclusion workshops
(Reminder, you must have participated in the Foundations workshop prior to Trans and Gender Inclusion)**

[Registration: Monday September 19, 9:00 a.m. to 11:00 a.m. \(In-Person\)](#)

[Registration: Tuesday October 18, 8:00 a.m. to 10:00 a.m. \(In-Person\)](#)

[Registration: Thursday November 17, 8:00 a.m. to 10:00 a.m. \(Virtual\)](#)

Completion of the Foundations workshop gives you membership in the University's Safer People Safer Places network, and is a pre-requisite for participation in the Transgender and Gender Inclusion advanced workshop. Participation in either/both can be counted toward your diversity professional development goals and Dean Kump and the EMS Diversity Council encourages participation; we'd like to have as many of our staff, faculty, postdocs and graduate students as possible participating.

Research group leaders working toward membership in the Rainbow EMS Network should have yourself and at least one other member (faculty, staff, postdoc or graduate student) who have completed both workshops. Please remember to notify Associate Dean for Educational Equity Victoria Sanchez (vsanchez@psu.edu) when you have completed this requirement so your group can be listed on the Rainbow EMS Website. More information on how to participate and responsibilities is available at <https://www.ems.psu.edu/diversity/ems-rainbow-network> (click on "Interested in participating?")

FOR MORE INFORMATION ABOUT THE EMS DIGEST:

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

OL 1400: Integrative Thinking in Teaching and Learning

- Join General Education Faculty Scholars in a practical online professional development course.
- Hear from faculty and students about what has made for a successful course intending Integrative Thinking.
- Develop strategies for connecting with students and assessing Integrating Thinking.

Starting Sept 6th - running for 5 weeks

Register at: <https://bit.ly/3bsB96I>

Developed in collaboration with the Office for General Education and the Schreyer Institute for Teaching Excellence



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General Education