

Issue 11, Aug/Sept 2021



SCHOOL OF NUCLEAR ENGINEERING CHRONICLES

Legend has it that the unit 'barn' was established in 1942 by physicists M.G. Holloway and C.P. Baker while they were having dinner at the Purdue Memorial Union. They came up with the name because 10^{-24}cm^2 is "as big as a barn" in the vast midwestern field. Professor Alex Sesonske (School Head, 1966–1973) taught in his class that the term came from the common Midwest expression, "someone was such a bad shot at hunting that they couldn't hit the broad side of a barn.", implying that the probability of neutrons passing through nuclei to cause fission are so rare, their aim could be equated to that of bad hunters.



Message from The Head

We are excited to return to campus! As our department is taking the utmost precautions as we transition back in-person this fall, I am so grateful to see our faculty, staff, and students embrace this new normal, masked-up and as dynamic as ever.

This issue of the barn Chronicles puts a spotlight on our many faculty and student achievements, including that of Dr. Stylianos Chatzidakis, one of our newest faculty members, who was recently selected for a research project supported by the Department of Energy's prestigious Nuclear Energy University Program. A great progress is being made on the Gateway building's construction, and we are looking forward to calling it home in Spring of 2023. Please visit our website and don't forget to follow us on our social media accounts (below) for updates on Gateway and other important news to come.

Wishing you a healthy and productive autumn.

Hail Purdue!

Seungjin Kim

*Capt. James F. McCarthy, Jr. and Cheryl E. McCarthy Head of the School of Nuclear Engineering
Purdue University*

Click [here](#) to visit the school website.

**GET YOUR
GAME FACE ON.**



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FEATURED STORIES

Dr. Stylianos Chatzidakis receives DOE award to further nuclear cybersecurity research

Stylianos Chatzidakis, Assistant Professor at the School of Nuclear Engineering (NE), received the Nuclear Energy University Program (NEUP) award from the U.S. Department of Energy earlier this year. Through the Office of Nuclear Energy, this award supports groundbreaking, innovative nuclear research being conducted at U.S. universities. This involves research and development (R&D), infrastructure enhancement, and the aid of student education.

Read more [here](#).



Online MNE Now Accepting Applications for Spring 2022!

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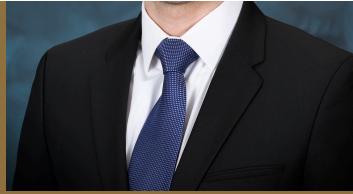
Deadline: November 15

Congratulations Dr. Stylianos Chatzidakis for being one of 10 Virtual Lab Faculty Fellows!

Virtual labs have been gaining ground in the College of Engineering. By combining mixed reality technologies with physics-based modeling and simulation and authentic machine interfaces, virtual labs are enriching learning. To expand the reach of this innovative instructional approach, the College has launched the Virtual Labs Faculty Fellows program, and has selected and engaged the first cohort of fellows. The 10 inaugural fellows have embarked on a six-week virtual lab development program this summer. Weekly workshops focus on evidence-based practices and activities to design, develop and implement virtual labs content.

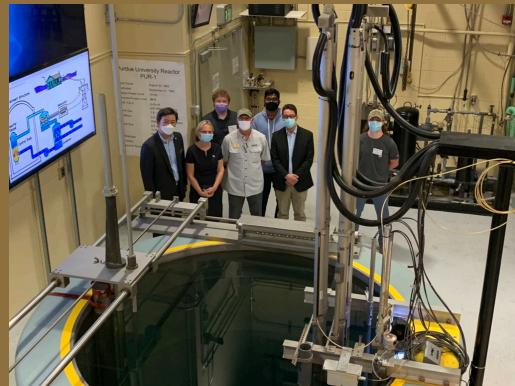
Read more [here](#).





Congresswoman Spartz's visit to PUR-1

On Wednesday, August 18th, the School of Nuclear Engineering welcomed Congresswoman Victoria Spartz of Indiana's 5th District. She toured PUR-1 and learned more about our program.



NE students recognized with scholarships and fellowships

Emily Downing, a 2nd-year graduate student in the School of Nuclear Engineering, has been invited by the Pacific Northwest National Laboratory (PNNL) to present her Nuclear Engineering Senior Design Project at this year's international Radiation Protection Computer Code Analysis and Maintenance Program (RAMP) meeting.

Read more [here](#).



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Purdue Gateway Complex Update

NE's new home will be in Dudley and Lambertus Hall. The multidisciplinary facility will improve student learning, industry partnerships, virtual labs, and job-ready education. The School of Nuclear Engineering will be on the fifth floor, overlooking Potter, Knoy, and Electrical Engineering. We hope to call Gateway home in Spring of 2023!



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