

**Topic of My Presentation:** Develop Minority Science and Engineering Improvement Program for minority Institutions to increase the flow of flow of underrepresented undergraduate ethnic minorities particularly minority women into scientific and technological careers.

**Name:** Shahram Khosrowpanah, Ph. D., P.E.

**Dean School of Engineering**

**Mangilao, Guam 96923**

**My name is Shahram Khosrowpanah, resident of Guam. Thanks to Senator Taraji/ Joe S. Dan Agustin/ Duenas for sponsoring this public hearing.**

**As a citizen of Guam, I feel it is my responsibility to provide suggestions on spending the available federal funds of American Rescue Plan (ARP) that will be helpful to the community and related agencies.**

**The University of Guam School Engineering (SENG) is a newly created college that had its beginning in the Pre-Engineering Program, which was established in 1989 (2-year non degree program). The goal of the program was to prepare the interested students with course work and skills sufficient to be admitted as juniors into any four-year engineering school accredited by the Accreditation Board for Engineering and Technology (ABET). Many of those students completed their study and now are working as professional engineers in Guam.**

**The Good to Great Implementation Plan brought together the vision of the Great UOG, G2G findings, principles for the prioritization of programs, an examination of larger, structural issues and Academic Master Plans for achieving great results as an institution and in individual units, which included expanding its pre-engineering curriculum into a full bachelors engineering program, starting with civil engineering as a fit to institutional mission and meeting community demand. According to the Good to Great Implementation Plan, the Pre-Engineering Program was among the seven (7) programs out of the twenty-one (21) that were considered for additional heavy and high priority investment.**

**In September 2016, the University Board of Regents officially created the school of Engineering (SENG) as a new school. The primary objectives of the School of Engineering were to establish a four-year Bachelor of Science in Civil (B.S.C.E) Degree program that would be accredited by the Accreditation Board for Engineering and Technology (ABET).**

**In February 2018, the University Board approved a four-year Bachelor of Science in Civil Engineering for the School of Engineering. In July 2019 Western Association of Schools and Colleges (WASC) approved the four-year degree program in Civil Engineering with the starting date of Fall 2019.**

**Currently SENG has 230 engineering students with 4 - full and 3 – part time engineering faculty with professional Engineering (P.E.) licenses. Creation of the SENG which was part of the UOG mission was a response to the chronic shortage of local engineers in Guam and the other**

---

**islands in the Western Pacific and the challenge of keeping talented local students interested in engineering fields that they could afford.**

**In my experience for more than 35 years throughout Micronesia I have been familiar with many of the local attitudes and practices around the use of water. As an example, one day I was monitoring water usage. I asked a lady that was sitting in her yard and water was running from their faucet. I asked her can she close it, but her response was because it reminds her the sound of the river and running water smells good and make her happy. No idea, how the water system works and conversation, and this kind of problem gets much worse during the drought. I feel the key to challenging is addressing the health of the children. Provide education for the kids, women and the community.**