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## MEMORANDUM

Date: August 9, 2016

To: Retention, Promotion and Tenure Committee  
Physics Department

From: Dr. Andrew Davol  
Professor, Mechanical Engineering

CC: Dr. Pete Schwartz  
Associate Professor, Physics

RE: Dr. Pete Schwartz, Outreach to CENG

Dr. Pete Schwartz is currently sponsoring two teams of engineering students to develop stoves for cooking in the developing world powered by photovoltaic solar panels. These projects are being run through the Mechanical Engineering (ME) Department senior project class and include five ME students and one EE student. Dr. Schwartz and I cosponsored the student's successful application to the Baker/Koob Endowment to fund a trip to Africa this summer for several of them in support of this effort. This current collaboration is just the latest example of a continuing relationship between the ME Department and Dr. Schwartz.

In addition to the photovoltaic cooking projects Dr. Schwartz and I are continuing our collaboration on low cost solar concentrator technology by co-advising a mechanical engineering master's student (on hold while student is on a co-op). An additional ME senior project was also sponsored by Dr. Schwartz related to this concentrator technology last year.

Dr. Schwartz has been an excellent ambassador between the College of Science and Math and the College of Engineering. His interest in energy is an obvious overlap with the Mechanical Engineering Department and he has reached out to us in several ways. Dr. Schwartz has guest lectured in our solar energy class and has mentored engineering students on projects in this area. Pete is using the Bonderson Project Center and Mustang '60 Student Fabrication Lab to support his UNIV class, which is helping to further my personal goal to see students from all across campus taking advantage of these facilities. The College of Engineering has also had students involved in the Guatemala Study Abroad Program organized by Dr. Schwartz.

Physics 141 is a critical prerequisite for the mechanics classes taught for all engineering majors by the ME Department. Dr. Schwartz has worked with Dr. Brian Self to help the College of Engineering and the College of Science and Math better understand each other's methods in teaching mechanics. He has attended statics and dynamics classes and has worked with Dr. Self to continue this effort.

As Cal Poly continues to emphasize multidisciplinary projects and bringing students together from diverse majors as part of our learn by doing education, faculty members like Dr. Pete Schwartz, who have demonstrated the drive to foster relationships that cross the traditional college lines will be critical to this mission. I can think of no one at Cal Poly that has done more to bring together the people from CENG and CSM than Pete.

I look forward to working with Dr. Schwartz in the future and know that his efforts will lead to closer relationships between mechanical engineering and physics students and faculty. Please do not hesitate to contact me if I can answer any questions about Pete's outreach activities with the Mechanical Engineering Department.

Sincerely,

A handwritten signature in black ink that reads "Andrew Davol".

Andrew Davol, Ph.D., P.E.  
Professor, Mechanical Engineering  
Cal Poly, San Luis Obispo