Faculty Research Profile

Dr. Thep Ayudhya, professor, Chemistry

Project - Using Organic Boron Compounds as Pharmaceutical Drugs

I began researching boron compounds as an alternative energy source during my first year at FSW. I then began researching its use in pharmaceutical drugs in 2013 in collaboration with Dr. Nin Dingra.

Boron is an interesting element because it is not a metal or a nonmetal, and it doesn’t always follow the trend of what we expect to see. It is similar to carbon in terms of bonding, but it has distinct properties. Through my research, I hope to prepare organic boron compounds that can be used as a drug delivery system to defeat various diseases.

We have been able to accomplish what others will refer to as impossible in the state colleges because of the continuous support from President Allbritton. We have successfully filed a patent for our project, and it is now patent-pending. We have recently published a research paper in Dalton Transactions, a journal that mostly accepts and publishes articles from research institutions.

Research is not an easy task, but I like challenges that will keep my brain sharp. I hope to set an example for other faculty who are interested in doing their professional development in research that we can achieve what we want to accomplish regardless of the place, facility, or any other obstacles that we may encounter if we set our mind to it.

Dr. Thep Ayudhya

Faculty News


Dr. Thep Ayudhya, professor, Chemistry, and Dr. Nin Dingra, director, Faculty and Student Research, co-authored this journal article: Ayudhya, T. I., Raymond, C. C., & Dingra, N. N. (2017). Hexamethylenetetramine carboxyborane: synthesis, structural characterization and CO releasing properties. Dalton Transaction, 46, 882-889.

Timothy Hsiao, adjunct professor, Ethics, authored this article: Hsiao, T. and Bernstein, C. (2016). Against Moderate Gun Control. Libertarian Papers, 8(2), 308-325.


Anjali Misra, professor, Biology, was chosen as a National Science Foundation Promoting Active Learning & Mentoring (PALM) network fellow.

Natala Orobello, professor, English, recently wrote and presented an article at the Hawaii University International Conference: Orobello, Natala. “Emily Dickinson and Her Men.” Hawaii University International Conferences, 2017.


Dr. Joseph van Gaalen, adjunct professor, Geology, co-authored this journal article: van Gaalen, J.F.; Tebbens, S.F., and Barton, C.C., 2016. Longshore transport direction and rates from northern Maine to Tampa Bay, Florida: Literature compilation and interpretation. Journal of Coastal Research, 32(6), 1277–1301.

Provost/VPAA Corner

I want to thank everyone who has provided input to the Research Ad-Hoc committee. I am looking forward to receiving the recommendations from the committee this spring. We are excited to announce that we will continue with the ARC Grants for the 2017 – 2018 academic year and will ask faculty to submit proposals during the spring 2017 semester for projects to begin in either summer or fall 2017. Also, we plan to continue with the ARC Grant presentations during the professional development days in the fall.

Congratulations to the following faculty who were awarded the most recent ARC grants:

Faculty Member and Project Title

Dr. Thep Ayudhya, professor, Chemistry - Improving Analytical Method in Forensic Science

Cindy Campbell, faculty librarian, - Bringing Library Resources to Life for Students

Ronald Feemster, professor, Mass Communication and Journalism - Leg Man: A Novel

Dr. Gabriel Gaidos, professor, Biochemistry - Toxicity Evaluation of Food Additives

Dr. Elijah Pritchett, professor, Humanities - Rotten, Vicious and Damned: Punk’s Subjectivity of Resistance

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To provide input to the Research Ad-Hoc committee, please contact Jennifer Young, Public Relations and Marketing Associate, at Jennifer.Young@fsw.edu or c-11101 (Thomas Edison Campus).