



Covering Environments—The CEAC Monthly Seminars

Technological Advances, Trends and Challenges in Aquaculture

February 24, 2017 @ 4:15-4:45pm

Controlled Environment Agriculture Center, 1951 E Roger Rd

Kevin Fitzsimmons PhD

Professor ABE, SWES and CEAC Faculty

The University of Arizona

Twice President (World and US Aquaculture Societies), Fulbright Scholar, Editorial Board member (Fisheries Science), multi department Professor and Scientist, world traveler and teacher—just a few of Fitzsimmons' talents and achievements which have catapulted him to become a world leader in aquaculture systems and food production. This is the biosketch of our CEAC speaker today. Fitzsimmons is fond of explaining that when you connect a fish tank with a lettuce raft, you get "*Better Science, Better Fish, Better Life*". These are the scientific and humanitarian principles on which Dr. Fitzsimmons' career is based. He came to that conclusion based on his extensive work which is based on the science of symbiosis between fish and plants whether in natural or constructed environments (e.g. aquaponics). Fitzsimmons, who is an acclaimed international expert in this area of agriculture, likes to point out that aquaculture has a long history "*From the Pharaohs to the Future*", and that he is most active in the latter aspect of the science. Dr. Fitzsimmons has applied his knowledge and passion in the amazing spectrum of aquaculture ranging from shrimp production, to tilapia culture, seaweed production, water purification, algae control, and onto the biology of native fish. And, he has done so across the USA, in Thailand, the Philippines, China, Malaysia, Honduras, Mexico, Myanmar, Egypt, Saudi Arabia, and the list keeps growing. No wonder that Fitzsimmons also carries the title of Director of International Programs at CALS thus bolstering the recognition and outreach of the University of Arizona worldwide.

In today's presentation, Kevin will discuss recent developments and future trends in how novel aquaculture technologies are taking a central role in food production especially in developing countries.

<http://www.aquaculturewithoutfrontiers.org/>

<https://www.was.org/>

<https://uanews.arizona.edu/story/three-receive-global-excellence-awards-service-education>

<http://voices.nationalgeographic.com/2016/11/20/fish-free-feed-contest/>

<https://cals.arizona.edu/azaqua/aquacltr.html#research.html>