

IQSE AMO QO Seminar Series

Tuesday, June 6th, 11:30 am ZOOM & IQSE
seminar room (MPHY 578)

Pizza will be served for IQSE members at 11:00 am. The talk will start around 11:30 am

Dr. Vanderlei S. Bagnato

(University of São Paulo, Brazil; Texas A&M University)

Photodynamic: From Cancer treatment to breaking down the resistance to antibiotic (or Why Physics is important for health care?)

ABOUT THE SPEAKER: Vanderlei S. Bagnato is a professor at the BME and Physics and Astronomy Department at Texas A&M University, as well as at the Department of Physics and Materials Science at Brazil's University of São Paulo and the Institute of Physics of São Carlos. Prof. Bagnato is a world-known expert in laser cooling, trapping neutral atoms, and applying the principles of optics and lasers in health sciences. Prof. Bagnato is a member of the National Academy of Sciences, the Pontifical Academy of Sciences of the Vatican, the World Academy of Sciences, and the Brazilian Academy of Science, as well as being a Commander of Brazil's National Order of Scientific Merit.

EVENT DETAILS: I will be speaking about my project in BME-TAMU and my work in Brazil involving Biophotonics for cancer and microbial control. We will discuss the instrumental and clinical development for the implementation of PDT, ranging from cancer to microbiological control with applications in the fight against infections with antibiotic-resistant bacteria. The need to create models comprising basic research, applied research, and companies should be presented. In particular, we will describe the most recent advances that make PDT for skin cancer and premalignant lesions attractive to the country's public health service. Finally, the control of vectors for important diseases will be presented. Extension of the conditions of PDT reality in Latin America, in general, will be considered.

ZOOM information:

<https://tamu.zoom.us/j/98156251523?pwd=QVdSdGxtL1UyY0g1L083SU5QR0QrUT09>

Meeting ID: 981 5625 1523

Passcode: 297578

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