TECHNICAL SEMINAR

Simulation of Microorganisms' Growth and Metabolism by Weak Magnetic Field in Bio-Energy Production

Dr. Ryzhkov provides a vision of electromagnetic stimulation of microorganisms in the production of "green" fuels. He will outline opportunities and challenges derived from the current understanding of the mechanisms of non-thermal biological effects of magnetic fields.

Dr. Andrii Ryzhkov received his B.S., M.S. and Ph.D. in Electrical Engineering from the Tavria State Agrotechnological University, Melitopol, Ukraine. He is currently a Fulbright Visiting Scholar at the Bioelectromagnetics Lab at University of Colorado, Boulder (CU-Boulder). He is also an Associate Professor at the Department of Theoretical and General Electrical Engineering at the Tavria State Agrotechnological University since 2009. His research explores effects of weak magnetic fields on the biological processes in living organisms. He ultimately seeks ways to speed up rather slow bioconversion rate in bioenergy production by means of stimulation of microorganisms by weak magnetic fields. Dr. Ryzhkov is a member of IEEE.

Dr. Andrii Ryzhkov
Fulbright Visiting Scholar

Wednesday March 27, 2013

Time: 12 Noon

Location: ECS 312

College of Engineering

California State University, Long Beach
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