Blue LED’s

History and development of efficient blue LEDs for lighting

February 23, 4:30-5:30 p.m.
Cardwell 101

The 2014 Nobel Physics Prize was awarded to three scientists “for the invention of efficient blue light-emitting diodes (LEDs) which has enabled bright and energy-saving white light sources.” In this talk, I will review and discuss, based on my personal perspective and experience, the history and development of efficient blue/white LEDs, the current status and impact of LED lighting, and future LED lighting and applications.

Hongxing Jiang
Horn Professor and Edward E. Whitacre Jr. Chair in Electrical and Computer Engineering,
Department of Electrical and Computer Engineering,
Texas Tech University

Dr. Hongxing Jiang received his B.S. in Physics from Fudan University, China and Ph.D. in Physics from Syracuse University. During his 20-year tenure in the Department of Physics at K-State from 1988-2008, he has devoted his research efforts to the advancement of III-nitride technologies, including blue/white LEDs. Currently, he co-directs the Nanophotonics Center at Texas Tech University. His current research areas cover a broad spectrum from basic to applied physics dealing with material synthesis, device fabrication, and fundamental physics. Dr. Jiang has 380 journal publications, 21 patents, has edited 9 books, and delivered over 100 invited talks.