



# 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.