

# RMOSA

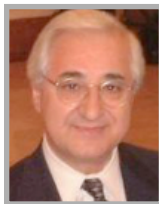
Rocky Mountain Section of the Optical Society of America

*Joint RMOSA/IEEE-LEOS Seminar & Meeting*

***Jacques Pankove tribute talk - November 8, 2007***

Refreshments: 7 p.m. :: Seminar: 7:30 p.m. [Discovery Learning Center, CU Boulder](#)

## **Progress in III-nitride semiconductors research and the influence of Jacques Pankove's work in the development of this field**



### **Prof. Theodore Moustakas**

**Electrical Engineering and Physics  
Boston University**

**Director of the [Wide Bandgap Semiconductor Laboratory](#)**

**Abstract:** In 1971 Pankove and co-workers reported the doping of GaN with Zn and the demonstration of the first blue LED. It was this development that triggered a flurry of activity worldwide over the past 40 years. In this talk I will review progress in the materials science of GaN and its alloys with InN and AlN, which led to the development of efficient LEDs and lasers as well as electronic and electromechanical devices. Pankove's influence in the development of this field will be highlighted.

**Theodore D. Moustakas:** Dr. Moustakas is a Professor of Electrical Engineering and Physics at Boston University. He received his Ph.D. in Solid State Science and Engineering from Columbia University in 1974. Dr. Moustakas' research contributions cover a broad spectrum of topics in opto-electronic materials and devices, including nitride semiconductors, amorphous semiconductors and diamond thin films. Intellectual property that resulted from his work has been licensed to a number of companies, including the two major manufacturers of blue LEDs and lasers (Cree and Nichia). His work is cited in the 2006 edition of Technology Transfer works: 100 cases from research to realization, published by the Association of University Technology Managers as part of the Better World Project ([www.betterworldproject.net](http://www.betterworldproject.net)).

Dr. Moustakas is a Fellow of the American Physical Society and the Electrochemical Society. In 2003 he was awarded an honorary doctoral degree from the Aristotle University for outstanding contribution to research and teaching.

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