



**Electrical & Electronic Engineering Department**  
**The University of Hong Kong**



IEEE HK Section  
LEOS

## **High Power Passive Fiber components for Fiber Laser and Amplifier**

by  
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**4:00 pm**  
**Rm 603, Chow Yei Ching Bldg**

### **Abstract:**

In this seminar, a review of high power fiber passive optical components which included optical isolator, tap coupler, power combiner and high power PM polarizer will be presented. A detail comparison of two Faraday rotator crystals for isolators near 1 um: TGG (Terbium Gallium Garnet) and BIG (Bismuth Iron Garnet) will be given. The design of a new type of compact 1 um fiber isolator will be discussed at the end of the seminar.

### **Biography:**

Dr. Kok Wai Chang has over twenty-five years of experience in the area of product development and research, and is a well recognized expert in fiber optics components and related packaging technology. Before joining Raydiance, he had more than 10 successful product introduction from concept, design to mass production in the area of micro-optics packaging, MEMs, VOA, MEM 1xN optical switches, isolators, amplifier components, fiber optic circulators and interleavers. He also has an excellent record (49 US patents) in proposing new and practical ideas for solving real-world technical problems. He has in-depth understanding of issues of manufacturing process control, reliability and qualification tests. He also has experience in product transfer to Asia and training of Asian R&D engineers and familiar with Asian optical vendors. He earned a B.S. in physics from National Cheng Kung University and Ph.D. in Physics from Texas Christian University.

