

# Joint CQSE & CASTS Seminar

「Dec. 25, 2020 (Friday)」

- Time : 14:30~15:30
- Place : Rm104, New Physics Building
- Speaker: **Murphy Lin** 林穎毅  
PIDA  
光電科技工業協進會
- Title : **Beyond the Photonics, Quantum Information Technology & Industry Emerge and Start Revolution & Evolution**

▲ The seminar is also open to non-NTU members; hence all participants must wear a mask. (Following Fall and Winter Precautionary Measures)

\*\*Sponsored by Center for Quantum Science and Engineering (CQSE) 量子科學與工程研究中心 and Center for Advanced Study in Theoretical Sciences (CASTS) 理論科學高等研究中心, NTU

\*\*Course: 109-1 (Phys8146) Applications of Quantum Computation

\*\*Supports for seminar lunch from Dept. Physics and seminar tea from Center for Theoretical Physics are greatly acknowledged

# Joint CQSE and CASTS Seminar

2020

December 25, Friday

**TIME** Dec. 25, 2020, 2:30~3:30pm  
**TITLE** Beyond the Photonics, Quantum Information Technology & Industry Emerge and Start Revolution & Evolution  
**SPEAKER** Murphy Lin  
Director, Photonics Industry & Technology Development Association  
**PLACE** Rm104, Chin-Pao Yang Lecture Hall,  
CCMS & New Physics Building, NTU

## Outline:

- Introduction of Photonics Industry & Technology Development Association, PIDA
- The Historical View of Light, from Photon, Lightwave, Electromagnetic Wave, Quantum, Wave-Particle Duality to Wave-function, as well as classical Quantum and modern Quantum.
- Why is Quantum Technology the Next Era?
- Quantum Technology Overview and Applications- Quantum Sensing, Quantum Communication, Quantum Computing.
- What's the Quantum Peripherals? Photon Sources, Photon Detectors, Quantum Memories & Repeaters and so on.
- What are the Hegemonies doing to reach "Quantum Supremacy"?

## Biography Brief:

**林穎毅 Murphy Lin**

### **現職 CURRENT POSITION**

- 光電科技工業協進會 光技術資訊服務部 總監/Director, PIDA

### **經歷 EXPERIENCE**

- 拓璞科技股份有限公司 研究經理/Research Manage, Topology Research Institute
- 宏碁科技股份有限公司 總經理特助/Special Assistant to GM, Fornex Technology Corp

### **學歷 EDUCATION**

- 1996 美國紐約大學 電機碩士/E.E., Tandon School, NYU
- 1990 東海大學物理系/Physics, Tunghai University

### **榮譽 HONOR**

- 台灣光學工業同業公會 常務理事/Director, Taiwan Optics Association, TOA
- Committee, The International Conference on Optics-photonics Design & Fabrication, ODF
- 中華民國對外貿易發展協會辦理經濟部「爭取全球政府採購商機(GPA 專案)計畫」之專家顧問 /Expert Consultant, GPA Project, TAITRA



## - N O T I C E -

▲Please swipe NTU card / ID card when entering CCMS-Phys. Building. ▲The seminar is also open to non-NTU members; hence all participants must wear a mask. ▲We provide alcohol sanitizer to keep your hands clean.

