

SINAM NANO SEMINAR

Center for Scalable and Integrated NANO
Manufacturing (SINAM) Presents:



Activity at Instrument Technology Research Center in Taiwan

Professor Din Ping Tsai

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1:30 PM - 2:30 PM

3110 Etcheverry Hall

Abstract

For seeking the opportunity of collaboration on cutting-edge research, this talk aims to introduce the general missions, organization, human resources, and research fields of Instrument Technology Research Center (National Applied Research Laboratory) in Taiwan.

The four main research divisions range from electro-optics and remote sensing, nanotechnology, vacuum technology, and instrumentation engineering. The research progress of each division is listed below:

- **Electro-optics and remote sensing:** remote sensing instruments such as VCDi, ISIS, FUSI and associated applications such as On Line Backlight Unit Inspection System and Portal Digital Microscope and Camera.
- **Nanotechnology:** instrument miniaturization on Multifunctional Biochemical Biochip system and Lotus Effect Biochip System.
- **Vacuum technology:** atomic layer deposition system and chemical beam epitaxy system
- **Instrumentation engineering:** manufacturing capabilities on optics, specifically the innovation of lens and CCD

Biography

Din Ping Tsai is a Distinguished Professor of Department of Physics at National Taiwan University, and an Adjunct Research Fellow at Research Center for Applied Sciences, Academia Sinica. He is also the Director General of the National Instrument Technology Research Center in Hsinchu, Taiwan. He is a Fellow of International Society of Optical Engineering (SPIE), Optical Society of America (OSA), American Physical Society (APS), Electro Magnetics Academy (EMA) and Physics Society of R.O.C., respectively. He is a Senior Member of IEEE as well. He is author and coauthor of 92 SCI journal papers, 32 book chapters and conference papers, and 32 technical reports and articles. He had 25 patents in USA, Japan, Canada, Germany and Taiwan. Three of his patents have been licensed to the world's largest optical disk manufacture company, Ritek Company in 2004. He had four technologies transfer to four different companies in last four years. His current research interests are nano-photonics, plasmonics, meta-materials, bio-photonics and their applications. He serves as a member of editorial boards of "Optics Communications" (Elsevier Journal Publication), "Plasmonics" (Springer Journal Publication), "JEOS Rapid Publication" (Journal of the European Optical Society: Rapid publications - ISSN 1990-2573) and "Opto-Electronics Letters," respectively. He is also the chief editor of "Nano Newsletters" and "Optical Engineering" in Chinese. He is a member of technical committee of IEEE/LEOS nanophotonics. He is also a member of the OSA Fellows and Honorary Members Committee.

Refreshments Provided

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