



TAIWAN-EU Nano-electronics Symposium

2 June (Thursday)



Seminar information & agenda

Venue	R209, Bldg. 78, Industry Technology Research Institute (ITRI) No.195, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan 工研院中興院區 78 館 209 室 310 台灣新竹縣竹東鎮中興路四段 195 號	
Description	<p>Nano-electronics mainstream technologies have seen a slowdown in the last few years due to growing process complexity, increasing financial investment and changing business models. Semiconductor industry is looking with interest into emerging technologies which are making use of innovative approaches. Taiwan and the European Union have world-class and Innovation centers in the nano-electronics sector and both attach high importance to the Electronics Components and systems. The Symposium is organized as a joint event in which some of the most promising nano-electronic technologies from Taiwan and Europe will be presented.</p> <p>隨著半導體製程的日趨複雜、龐大的資金投入與商業模式的訊息萬變，奈米電子主流技術漸次地已將開發重點轉至更具創新力的技術。有鑑於此，目前台灣及歐盟兩地都在奈米電子領域設立尖端的技術培育中心；除此之外，並挹注相當的心力在元件製程及系統開發領域。本場論壇由台歐合辦，鎖定奈米電子領域最前瞻技術，希望提供給台灣半導體產業人士更多學習與交流的機會。</p>	
Organizers	ITRI http://www.itri.com/ Directorate General for Communications Networks, Content and Technology (DG CONNECT) – European Commission https://ec.europa.eu/digital-single-market/dg-connect	
Contact	Chia-wen Lee , chiawenlee@itri.org.tw	
Time	Programme	Presenters
8:30 – 9:00	Registration 報到	
9:00 – 9:20	Welcome and Opening: 10 mins 開幕致詞 Opening: 20 mins	Chih-I Wu. General Director. ITRI Francisco J. Ibáñez. Deputy Head of Unit. Directorate General for Communications Networks, Content and Technology (DG CONNECT). European Commission
9:20 – 9:40	Nanoelectronics applications and market trends 奈米電子應用和市場趨勢	
9:40 – 12:00 (Topic 1)	Subject: Nanobiosensing 奈米生物檢測 Chair: Pei-Hua Wang 09:40~10:15 Enabling a New Healthcare Paradigm 創新 型醫療照護介紹 by Optoelectronic	
		Johnsee Lee. Personal Genomics Inc

	10:15~10:50 Biophotonics system for food analysis 生物光子學運用在食物檢測的現況	Ioanna Zergioti. National Technical University of Athens
	10:50~11:00 Break 中場休息	
	11:00~11:35 Regulatory View on Commercialization of Biosensor-embedded Biomedical Product 從法規面來看生物探測器的商品化-嵌入式生物醫學產品	Ting-Shou Chen. BDL. ITRI
	11:35~12:00 Bio-related Sensor Technology 生醫檢測相關技術	Pei-Jer Tzeng. EOSL. ITRI
12: 00 – 13:00	Lunch 午餐	
13: 00 – 13:40	Nanoelectronics roadmapping activities. 奈米電子未來藍圖及計畫說明	
	13:00~13:20 NEREID: "NanoElectronics Roadmap for Europe " 歐洲的奈米電子遠景	Francis Ballestra. CNRS
	13:20~13:40 Introduction of H2020 展望 2020 計畫介紹	Chia-wen Lee. EOSL.ITRI.
13: 40 – 15:15 (Topic 2)	Advanced Sensing 先進感測技術 Chair: Francisco J. Ibáñez	
	13:40~14:10 CanDo – A cancer development monitor 癌症發展的監控	Andrés Cantarero. University Valencia
	14:10~14:40 Multi-sensing platform for smart building management	Anton Köck. MCL
	用於智慧型建物複合式檢測平台介紹	Shyh-Shyuan Sheu. EOSL.ITRI
	14:40~15:15 Sensor platform for elder healthcare 老人照護檢測平台	
15:15 – 15:25	Break 中場休息	
15:25 – 16:30 (Topic 3)	Unconventional nanoelectronics 非消費型奈米電子 Host: EU Chair: Chair: Francisco J. Ibáñez	
	15:25~15:55 Hardware Neural Network from Synaptic Devices to Neuromorphic Computing 從突觸裝置到神經型態運算的硬體神經網絡	Tuo-Hung Hou. NCTU
	15:55~16:30 NEUral computing architectures in Advanced Monolithic 3D-VLSI nano-technologies	Carlo Reita. CEA-LETI
	用於 3D-VLSI 單晶片的仿神經型態運算架構	
16:30 – 16:45	Conclusion and Closing 結論和閉幕	Pei-Hua Wang. Director. EOSL. ITRI