

2021 ONLINE JOINT SYMPOSIUM

**THE PENNSYLVANIA STATE UNIVERSITY
NATIONAL TAIPEI UNIVERSITY OF TECHNOLOGY**

MAR • 29-31 • 2021(TW)

MAR • 28-30 • 2021(USA)

08:00-10:30 CST/20:00-22:30 EDT

LOCATION: GIS TAIPEI TECH CONVENTION CENTER

台北市 106 大安區忠孝東路三段1號 億光大樓 2F ROOM #204



EVENT OVERVIEW

Day 1 (03/29)		
Time	Event Agenda	Speaker
08:00-08:15	OPENING SESSION: Welcome Remarks	Dr. Sea-Fue Wang Dr. Lora G. Weiss
08:15-08:45	Materials Research Institute and Cold Sintering	Dr. Clive Randall
08:45-09:15	Materials and Research/ Industry Collaboration Overview	Dr. Chaochin Su, Dr. Sheng-Tung Huang
09:15-09:30	An Overview of Human Development and Social Science at Penn State University	Dr. Susan Marie McHale
09:30-09:45	Capacity-Building Roadmap for Talent Development: Education, Skills and Training, and Entrepreneurship (APEC's HRDWG EDNET Projects)	Dr. Yun-Hua Yang
09:45-10:00	An Overview of Institute of Energy and The Environment at Penn State University	Dr. Tom Richard
10:00-10:15	Developing Energy Conservation Technologies for Cleaner Energy in Taiwan	Dr. Liang-Han Chien
10:15-10:45	Trend of Semiconductor Technology and TSMC's University Collaboration	Dr. Meng-Fan(Marvin) Chang
10:45-	End of Day 1	
Day 2 (03/30)		
Time	Event Agenda	Speaker
08:00-08:15	AIoT Systems and Their Applications in Industry and Healthcare	Dr. Yo-Ping Huang
08:15-08:30	Technologies for Improving Quality of Life in Amyotrophic Lateral Sclerosis	Dr. Andrew Geronimo
08:30-08:45	Integrating Comorbidity and DNA Methylation Profiling to Develop Novel Biomarkers for Aging Related Precision Healthcare	Dr. Tun-Wen Pai
08:45-09:00	Optimization of Biomolecular Additives for Orthopaedic Applications	Dr. Hsu-Wei Fang
09:00-09:15	Materials for 5G	Dr. Michael Lanagan
09:15-09:30	Energy Development and Perspectives: Dye-Sensitized Solar Cells & Photoelectrochemical Catalytic Water Splitting	Dr. Lu-Yin Lin
09:30-09:45	Thin Film Piezoelectric MEMS: Processing, Properties, and Applications	Dr. Betul Akkopru-Akgun
09:45-10:00	Dissolvable Tattoo Electronics for Biomedicine	Dr. Huanyu (Larry) Cheng
10:00-10:30	Novel Field VOC (Volatile Organic Compound) Monitoring	Dr. Li-Peng (Leo) Wang
Day 3 (03/31)		
Time	Event Agenda	Speaker
08:00-08:15	Double-absorber Thin-film Solar Cells Exceeding 30% in Efficiency	Dr. Akhlesh Lakhtakia
08:15-08:30	Research on Corporate Sustainability and Life Cycle Assessment	Dr. Allen H. Hu
08:30-08:45	A Deterministic Global Optimization Approach and its Applications	Dr. Jun-Fa Tsai
08:45-09:00	Development of Server Power and Servo Drives	Dr. Yen-Shin Lai
09:00-09:15	Upscaling Wide Bandgap Power Switches for a More Resilient Power Grid	Dr. Rongmin Chu,
09:15-09:30	Architecture as Infrastructure: Multi-scaling Socio-spatial Networks	Dr. Shao-Yu Huang
09:30-09:45	From Social Science to Computational Sociology: The Leap of Taipei Tech	Dr. Yuan-Chih Fu
09:45-10:00	Forecasting with Dynamical Systems Models in the Social and Behavioral Sciences	Dr. Chow, Sy-Miin
10:00-10:30	Roundtable Discussion	Dr. Thomas C.-K. Yang
10:30-	Closing Remarks	