

Sejong-UTD IRC Workshop | GRI-TPC IRC (SJU)

Date & Time Dec. 6 (Wed) 10:00~11:55 / Dec. 7 (Thu) 10:15~12:30

Place 8F, Ara Hall [\[On & Off Hybrid Session\]](#)

Organized by GRI-TPC International Research Center, Sejong University

Time(Korea Time)	Presenter	Title-Research field
Dec. 6 (Wed) 10:00~11:55, Session 1 Chair: Jonghwa Eom (Sejong University, Korea)		
10:00-10:15	Suklyun Hong (Sejong University)	Opening Address
10:15-10:40	Moon Kim (The University of Texas at Dallas)	Reliability Study of E-mode GaN HEMTs by In-situ TEM Electrical Biasing
10:40-11:05	Kyeongjae Cho (The University of Texas at Dallas)	Polarization switching mechanisms of fluorite (Hf,Zr)O ₂ ferroelectric grains
11:05-11:30	Young Joon Hong (Sejong University)	Non-chemically bonded epitaxy: fundamentals to the interface and practical device fabrications
11:30-11:55	Bum Sung Kim (Korea Institute of Industrial Technology, Korea))	Development of Multifunctional High Entropy Alloy Composites (CoCrFeNi/TiN) with Nanoscale Interpenetrating Reinforcement Network
Dec. 7 (Thu) 10:15~12:30, Session 2 Chair: Keun Soo Kim (Sejong University, Korea)		
10:15-10:40	Anvar Zakhidov (The University of Texas at Dallas)	Ionotronics of Perovskite Optoelectronic Devices: Memristive behavior
10:40-11:05	Jiyoung Kim (The University of Texas at Dallas)	Molecular Atomic Layer Deposition (MALD) Films for Extreme Ultra-Violate (EUV) Lithography Applications
11:05-11:30	Jonghwa Eom (Sejong University)	Twist-angle dependent spin tunneling in Fe ₃ GeTe ₂ -hBN-Fe ₃ GeTe ₂ van der Waals vertical junctions
11:30-11:55	A-Rang Jang (Kongju National University)	Transparency properties of graphene and applications
11:55-12:20	Odiluhja Parpiev (Institute of Materials Science of the Uzbekistan Academy of Sciences)	The possibilities of Uzbekistan's Big solar furnace in the development of new materials
12:20-12:30	Anvar Zakhidov (The University of Texas at Dallas)	Closing Remarks