جامعة الملك عبدالله للعلوم والتقنية
King Abdullah University of Science and Technology

COMPOUND SEMICONDUCTOR WEEKEND

KAUST, Saudi Arabia
September 2-5

Friday 02-09-2022 Day 1
Guest Arrival and Check in at KAUST Inn 2, Welcome Lunch, Golfing and Welcome Dinner
Saturday 03-09-2022 Day 2
Opening Ceremony, Sessions 1-4, Poster Competition, Banquet
Sunday 04-09-2022 Day 3
Sessions 5-6, Closing Ceremony, Lab Tour, Jeddah Tour and Dinner
Monday 05-09-2022 Day 4
Guest Departure

Agenda (Draft)	
Day 2: Saturday 03-09-2022	
8:00-9:00	Registration Location: RM5209, B3
Opening Ceremony Location: RM5209, B3 | Moderator: Xiaohang Li	
9:00-9:05 9:05-9:10 9:10-9:15 9:15-9:30	Opening remarks by Prof. Tony Chan, President of KAUST Opening remarks by Prof. Ajit K. Chaturvedi, Director of IIT Roorkee Opening remarks by H.E. Mohd Shahid Alam, Consul General of India in Jeddah Introduction to KAUST Core Labs by Dr. Daniel Acevedo-Feliz, Director, Core Labs and Research Infrastructure, KAUST
9:30-9:45	Group Photography Location: Stairs near B16
	Session 1 Location: RM5209, B3 | Moderator: Dr. Md. Hasan Raza
9:45-10:15 10:15-10:45 10:45-11:00	Prof. Mario Lanza, KAUST Hexagonal Boron Nitride Based Memristors: a long journey Prof. Shaibal Mukherjee, IIT Indore Machine learning with crossbar memory medical imaging Saravanan Yuvaraja, Ph.D. student, KAUST Ultrawide bandgap Ga_2O_3-based CMOS logic
11:00-11:20	Bandgap break
	Session 2 Location: RM5209, B3 | Moderator: Akash Jadhav
11:20-11:50 11:50-12:20 12:20-12:35	Prof. Yatin Wang, KAUST Recent advances of light sources in silicon photonics Prof. Sudharsanan Srinivasan, IIT Madras Heterogeneous integration of III-V materials on Silicon Dr. Md. Hasan Raza, Postdoctoral Fellow Advanced Architectures for Non-volatile Charge Trapping Memory Devices and Computing Applications
12:35-14:20	**Lunch and Poster Competition** Location: L2 Desert Side, B3 | Moderator: Prof. Biplab Sarkar
	Session 3 Location: RM5209, B3 | Moderator: Yi Lu
14:30-15:00	Prof. Biplab Sarkar,IIT Roorkee Ultra-wide bandgap Superjunction Power Devices
15:00-15:30	Prof. Ahmed K. Allehyani, University of Jeddah The Contributions of Wide Bandgap Devices on Power Converters Design
15:30-15:45	Feras Alqatari, Ph.D. student, KAUST Growth and band alignment of High Boron Composition BGaN on AlN and GaN
15:45-16:05	Bandgap break
	Session 4 Location: RM5209, B3 | Moderator: Feras Alqatari
16:05-16:35	Dr. Paulraj Gnanasekar, Dr. Tien Khee Ng, and Prof. Boon S. Ooi, KAUST Compound semiconductor optoelectronics and energy photonics

16:35-17:05	Prof. Tanmoy Pramanik, IIT Roorkee Large-area Growth of Transition Metal Chalcogenides: Experiment and Modeling
17:05-17:20	Akash Jadhav, Ph.D. student, IIT Roorkee An Approach to Develop Accurate Small Signal Model of AlGaN/GaN MOS-HEMTs
18:15-20:30	**Banquet (Invitation only)** Location: Pure Restaurant
Day 3: Sunday 04-09-2022	
	Session 5 Location: RM5209, B3 | Moderator: Mritunjay Kumar
9:00-9:30	Prof. Iman Roqan, KAUST The effect of carrier dynamics on optical efficiency in III-nitride devices: advanced optical analyses
9:30-10:00	Prof. Oves Badami, IIT Hyderabad Modelling and Simulations of III-V MOS transistors
10:00-10:15	Yi Lu, Ph.D. student, KAUST Advanced III-Oxide Semiconductor Membrane for Flexible/Vertical Electronics
10:15-10:35	Bandgap break
	Session 6 Location: RM5209, B3 | Moderator: Saravanan Yuvaraja
10:35-11:05	Prof. Nazek Elatab, KAUST Smart Memory Devices for the Digital Transformation
11:05-11:35	Prof. Ankush Bag, IIT Guwahati Ga_2O_3 for emerging power and optoelectronics
11:35-11:50	Chuanju Wang, Ph.D. student, KAUST Impact of the interfacial gate oxide morphology on the performance of GaN HEMTs
11:50-12:05	**Closing ceremony** Location: RM5209, B3 | Moderator: Prof. Xiaohang Li & Prof. Biplab Sarkar
12:15-13:50	**Lunch break (Invitation-only)** Location: Reserved Tables of Campus Diner
14:00-17:00	**PI Lab tour and Core Labs tour** Nazek Elatab Lab tour by Galo Torres, Sea Side, L2, Building 3 (14:00-14:20) Xiaohang Li Lab tour by Saravanan Yuvaraja, Desert Side, L2, Building 3 (14:20-14:40) Bandgap Break at R2255 Desert Side, L2, Building 3 (14:40-15:00) Discussion with Prof. Yating Wan at R2255 Desert Side, L2, Building 3 (15:00-15:40) Visualization Core Lab Tour, Sea Side L2, Building 1 (15:45-16:00) Imaging and Characterization Core Lab Tour, L0, Building 3 (16:00-16:30) Nanofabrication Core Lab Tour, L0, Building 3 (16:30-17:00)
17:10	**Jeddah Tour and Guest Departure** Taxi pickup location: Bus Stop, Building 16
THE END	