

# IEEE NANO 2020



The 20th IEEE International Conference on Nanotechnology

## Plenary & Keynote Speakers

Speaker	Topic
Toshio Fukuda (2020 IEEE President)	TBA
Supriyo Bandyopadhyay (NTC 2020 Pioneer Award)	Straintronics: Strain-switched Nanomagnets for Digital and Analog Applications
Osamu Tabata (NTC Fellow)	Top-down meets bottom-up: Way to explore the plentiful room at the bottom
Tza-Huei Jeff Wang (NTC Fellow)	Droplet Microfluidics Technologies for Rapid Pathogen Identification and Susceptibility Testing
Juliana Jaramillo Fernandez	Phonons and photons in thermo-functional materials for passive cooling
Nadine Collaert	Compound semiconductors and their role in future 6G applications
<b>Keynotes</b>	
Mikhail Kats (NTC Early Career Award)	TBA
Oluwaseyi Balogun	Thermal Conduction Measurements in Low Dimensional Materials and Heterostructures
Reuven Gordon	Quantum Plasmonics: Trapping Single Erbium Emitters, Bright Upconversion by Light Induced Tunneling and Below Bandgap THz Generation
Vincent Li	TBA
Markondayaraj Pulugurtha	Heterogeneous System Component Integration with Nanopackaging
Seiji Samukawa	Atomic Layer Defect-free Top-down Process for Future Nano-devices
VR Singh	Advanced Nano-Biomedical Sensors and Nano-Electronic Devices for Health Care Applications
Li Zhang	Reconfigurable Magnetic Nanoparticle-Swarm for Targeted Delivery