

# Day 1 Monday 8<sup>th</sup> June

## Room 1

8:30-9:00	<p><b>Opening Remarks</b> Chair-Bingbing Liu (Jilin University, China)</p> <p><b>Speaking-Xi Zhang</b> (Jilin University, China)</p> <p><b>Speaking-Guangtian Zou</b> (Jilin University, China)</p> <p><b>Speaking-Shuit-Tong Lee</b> (Soochow University, China)</p> <p><b>Group Photo</b></p>
<p><b>Plenary Speaking</b> Chair-Yasuo Koide (Meijo University, Japan)</p>	
9:00-9:30	<p><b>Plenary Speaking-Jin Zhang</b> (Peking University, China) Artificial Intelligence for Materials Science: Transforming Research Paradigms</p>
9:30-10:00	<p><b>Plenary Speaking-Ken Haenen</b> (Hasselt University, Belgium) Designing Diamond by CVD: Dopants, Defects and Interfaces from Power Devices to Quantum and Biohybrid Technologies</p>
10:00-10:30	<p><b>Plenary Speaking-Lianmao Peng</b> (Peking University, China) Carbon-based High-performance Electronics</p>
10:30-10:45	Coffee Break
Room 1	
<p><b>Electronic and Optical Properties, and Device Applications</b> Chair-Hongxing Wang (Xi'an Jiaotong University, China), Meiyong Liao (National Institute of Material Science, Japan), Wenjun Zhang (City University of Hong Kong, Hong Kong, China)</p>	
10:45-11:05	<p><b>Invited Speaking-Chongxin Shan</b> (Zhengzhou University, China) Bulk Hexagonal Diamond</p>
11:05-11:25	<p><b>Invited Speaking-Jinfeng Zhang</b> (Xidian University, China) Research on Material Fabrication and Device Performance of Diamond Radiation Detector</p>
11:25-11:45	<p><b>Invited Speaking-Kang Liu</b> (Harbin Institute of Technology, China) Diamond Surface Properties and Devices</p>
11:45-12:05	<p><b>Invited Speaking-Yang Liu</b> (Peking University, China) Building Ultraclean Van der Waals Interfaces for Emerging Physical Sensing</p>
12:05-14:00	Lunch
<p><b>Electronic and Optical Properties, and Device Applications</b> Chair-Chongxin Shan (Zhengzhou University, China), Zhihong Feng (Hebei Semiconductor Research Institute, China), Guangchao Chen (University of Chinese Academy of Sciences, China)</p>	
14:00-14:20	<p><b>Invited Speaking-Hongxing Wang</b> (Xi'an Jiaotong University, China) Recent Advances in Diamond Semiconductors</p>
14:20-14:40	<p><b>Invited Speaking-Meiyong Liao</b> (National Institute of Material Science, Japan)</p>

	Diamond MEMS for Robust Micro/Nano Systems
14:40-15:00	<b>Invited Speaking-Norio Tokuda</b> (Kanazawa University, Japan) Recent Progress in Inversion Channel Diamond MOSFET Technology
15:00-15:15	<b>Yoonseok Nam</b> (Tech University of Korea, Republic of Korea) Gamma-ray Radiation Hardness of Ir Contacts in H-terminated Diamond MESFETs
15:15-15:30	Coffee Break
<b>Electronic and Optical Properties, and Device Applications</b> Chair-Norio Tokuda (Kanazawa University, Japan), Kang Liu (Harbin Institute of Technology, China), Li Ding (Peking University, China)	
15:30-15:50	<b>Invited Speaking-Okhyun Nam</b> (Tech University of Korea, Republic of Korea) Diamond Semiconductor: From Single Crystal Wafer to Devices
15:50-16:10	<b>Invited Speaking-Zilong Zhang</b> (Institute of Metal Research, CAS, China) Diamond MEMS Magnetic Force Sensor for Three-Dimensional Imaging at Room Temperature
16:10-16:30	<b>Invited Speaking-Lidong Dai</b> (Guizhou Normal University, China) Acoustic Shock Wave-induced Structural Phase Transition of Carbon Nano Structures: Tetrahedral Amorphous Carbon, Graphite and Graphene
16:30-16:45	<b>Taemyung Kwak</b> (Tech University of Korea, Republic of Korea) Selective p <sup>+</sup> Regrowth for Boron-Doped Diamond MOSFETs on Heteroepitaxial (100) Diamond with Breakdown Voltages over 800 V
16:45-17:00	<b>Wen Zhao</b> (National Institute of Material Science, Japan) Diamond MEMS Resonator for Ultra-High-Resolution Thermometry
18:00-20:00	Banquet
Room 2	
<b>Mechanical Properties and Thermal Management</b> Chair-Mingguang Yao (Jilin University, China), Quan Li (Jilin University, China), Shengcai Zhu (Sun Yat-sen University, China)	
10:45-11:05	<b>Invited Speaking-Zhisheng Zhao</b> (Yanshan University, China) Pressure-Induced High-Performance Carbon and Boron Nitride Materials
11:05-11:25	<b>Invited Speaking-Jianbo Liang</b> (Osaka Metropolitan University, Japan) Room-Temperature Direct Bonding of Semiconductors and Diamond for Advanced Thermal Management Applications
11:25-11:45	<b>Invited Speaking-Shaobo Cheng</b> (Zhengzhou University, China) Electron Microscopy Studies on the Emergent Properties in Diamond
11:45-12:05	<b>Invited Speaking-Zhe Cheng</b> (Peking University, China) Thermal Conduction in 3C-SiC and Diamond
12:05-14:00	Lunch
<b>Electrochemistry and Biotechnology</b> Chair-Nianjun Yang (Hasselt University, Belgium), Chia-Liang Cheng (National Dong Hwa University, Taiwan, China), Naoki Komatsu (Kyoto University, Japan)	

14:00-14:20	<b>Invited Speaking-Wenjun Zhang</b> (City University of Hong Kong, Hong Kong, China) Diamond Surface Nanostructures and Carbon Nanotubes in Biomedical and Energy Storage Applications
14:20-14:40	<b>Invited Speaking-Haitao Ye</b> (Fudan University/University of Leicester, China/UK) Electrochemical Corrosion Behavior of Boron-Doped Diamond Coatings
14:40-15:00	<b>Invited Speaking-Nan Huang</b> (Institute of Metal Research, CAS, China) Synthesis and Applications of CVD Boron-doped Diamond
15:00-15:15	<b>Xiaoxi Yuan</b> (Jilin Engineering Normal University, China) Nanostructured Diamond Sensors Detect Emerging Contaminants
15:15-15:30	Coffee Break
<b>Electrochemistry and Biotechnology</b> Chair-Haitao Ye (Fudan University/University of Leicester, China/UK), Nan Huang (Institute of Metal Research, CAS, China), Jianbo Liang (Osaka Metropolitan University, Japan)	
15:30-15:50	<b>Invited Speaking-Naoki Komatsu</b> (Kyoto University, Japan) Functionally Programmed Diamond, Boron Nitride and Boron Carbide Nanoparticles for Cancer Diagnosis and Therapy
15:50-16:10	<b>Invited Speaking-Nianjun Yang</b> (Hasselt University, Belgium) From Diamond to Diamond Composites: Design and Electrochemical Applications
16:10-16:30	<b>Invited Speaking-Chia-Liang Cheng</b> (Dong Hwa University) Nanodiamond Facilitated Drug Delivery in Cancer Therapy
16:30-16:45	<b>Chuyan Zhang</b> (Institute of Metal Research, CAS, China) Efficient Electroreduction of Nitro-Containing Compounds on sp <sup>2</sup> -C Hybrid Boron-doped Diamond in Acidic Media
16:45-17:00	<b>Nikhil Chandrashekara</b> (Indian Institute of Technology Madras, India) Green Ammonia Synthesis from Electrochemical Nitrate Reduction using Boron Doped Diamond Electrode
18:00-20:00	Banquet

## Day 2 Tuesday 9<sup>th</sup> June

### Room 1

#### Plenary Speaking

Chair-Ken Haenen (Hasselt University, Belgium)

8:30-9:00

**Plenary Speaking-Rodney S. Ruoff** (Ulsan National Institute of Science and Technology, Republic of Korea)

Carbon and Boron Nitride Materials: Basic Science and Broader Impact

9:00-9:30

**Plenary Speaking-Yan Li** (Peking University, China)

Chirality-Specified Preparation of Single-Walled Carbon Nanotubes

9:30-9:45

Coffee Break

### Room 1

#### Electronic and Optical Properties, and Device Applications

Chair-Jiangwei Liu (National Institute for Materials Science, Japan), Okhyun Nam (Tech University of Korea, Republic of Korea), Li Lin (Peking University, China)

9:45-10:05

**Invited speaking-Zhihong Feng** (Hebei Semiconductor Research Institute, China)

Enhanced Operating Voltage and RF Power of H-Diamond MOSFETs by Field Plate Technique

10:05-10:25

**Invited Speaking-Guoguang Wu** (Jilin University, China)

Silicon-Based Polycrystalline Diamond for Solar-Blind DUV Photodetector and MOSFET Applications

10:25-10:45

**Invited Speaking-Qiang Li** (Xi'an Jiaotong University, China)

Hexagonal BN-Based Deep Ultraviolet Photodetectors

10:45-11:05

**Invited Speaking-Zhangcheng Liu** (Jiangnan University, China)

All-Diamond Solar-Blind UV Photodetector with Heavily Boron-Doped Diamond Transparent Electrodes

11:05-11:25

**Invited Speaking-Kang An** (North China University of Technology, China)

Study on growth characteristics and growth behavior of MPCVD longitudinally grown diamond particles

11:25-11:40

**Zhaozong Zhang** (National Institute for Materials Science, Japan)

Defect-Related Mechanical Dissipation Anisotropy in Diamond MEMS Resonators

11:40-11:55

**Tongtong Zhang** (The University of Hong Kong, Hong Kong, China)

Deterministic Customization of Diamond Particles for Advanced Information Technologies

11:55-12:10

**Suyu Wang** (Xi'an Jiaotong University, China)

High-Voltage Hydrogen-terminated Diamond FETs with a RESURF Intergraded Field-Plate Structure

12:10-14:00

Lunch

#### Electronic and Optical Properties, and Device Applications

Chair-Zilong Zhang (Institute of Metal Research, CAS, China), Qiang Li (Xi'an Jiaotong University, China)

14:00-14:20	<b>Invited Speaking-Jiangwei Liu</b> (National Institute for Materials Science, Japan) Impact of Doping Profile on Electrical Performance of Boron-Doped Diamond Metal-Oxide-Semiconductor Field-Effect Transistors
14:20-14:35	<b>Xixiang Zhao</b> (Xi'an Jiaotong University, China) High Breakdown Voltage of Diamond Vertical Schottky Barrier Diodes with Self-aligned Mesa and Field Plate Combined Termination
14:35-14:50	<b>Yabo Huang</b> (Zhengzhou University of Aeronautics, China) Influence of Bias Voltage on Composition, Microstructure, Optical and Mechanical Properties of Magnetron-Sputtered $Y_2O_3$ /Diamond
14:50-14:55	
14:55-17:30	Excursion
18:00-20:00	Buffet
<b>Room 2</b>	
<b>Color Centers and Quantum Technology</b> Chair-Quan Li (The Chinese University of Hong Kong, China), Xiaojun Hu (Zhejiang University of Technology, China)	
9:45-10:05	<b>Invited Speaking-Ya Wang</b> (University of Science and Technology of China, China) Nanoscale Quantum Sensing Using Solid-state Centers
10:05-10:25	<b>Invited Speaking-Yingke Wu</b> (Max Planck Institute for Polymer Research, Germany) Nanodiamond Quantum Sensors for Biological Applications
10:25-10:45	<b>Invited Speaking-Gangqin Liu</b> (Institute of Physics, CAS, China) Diamond Quantum Sensing under Ultrahigh Pressure
10:45-11:05	<b>Invited Speaking-Song Li</b> (Beijing Computational Science Research Center, China) Interacting Donor-acceptor Pairs as the Origin of Coupled Spin-optical Signals in Hexagonal Boron Nitride
11:05-11:25	<b>Invited Speaking-Vadim Sedov (Artem Martyanov)</b> (Prokhorov General Physics Institute of the Russian Academy of Science, Russia) In-Situ Doping of CVD Diamond with Group IV Elements: From Single Color Centers to Secondary Phase Formation
11:25-11:40	<b>Minle Zhan</b> (Groningen University, Netherlands) Probing the Inner Life of Organoids: In-Situ Diamond Quantum Sensing of Free Radicals
11:40-11:55	<b>Yayin Tan</b> (The University of Hong Kong, Hong Kong, China) High-Fidelity Bioimaging of Nanodiamonds in Noisy Biological Environments
11:55-12:10	<b>Jiahui Zhao</b> (University of Warwick, UK) Quantification of Dislocation and Inclusion Induced Strain in Diamonds for Advanced Applications
12:10-12:25	<b>Xinwen Zhou</b> (Cambridge Isotope Laboratories, Inc. (CIL), China) Enabling Quantum Diamond Technologies
12:25-14:00	Lunch
<b>Color Centers and Quantum Technology</b>	

Chair-Ya Wang (University of Science and Technology of China, China), Gangqin Liu (Institute of Physics, CAS, China)	
14:00-14:20	<b>Invited Speaking-Shery Chang</b> (University of New South Wales, Australia) Engineering Quantum-Grade Nanodiamonds: From Scalable Defect Creation to Interface-Controlled Photon Emission
14:20-14:40	<b>Invited Speaking-Quan Li</b> (The Chinese University of Hong Kong, China) Motion Tracking of ND in Fluidic Environment
14:40-14:55	<b>Linjie Ma</b> (The University of Hong Kong, Hong Kong, China) From Displacement to Angle: Diamond-Based 3D Rotation Sensing for High-Precision Cellular Force Measurement
14:55-17:30	Excursion
18:00-20:00	Buffet

## Day 3 Wednesday 10<sup>th</sup> June

### Room 1

#### Plenary Speaking

Chair-Shery Chang (University of New South Wales, Australia)

8:30-9:00	<b>Plenary Speaking-Hiroshi Kawarada</b> (Waseda University, Japan) Heavily Doped Diamond for Semiconductor or Superconductor FETs and NV Center Magnetic Sensors
9:00-9:30	<b>Plenary Speaking-Feng Ding</b> (Suzhou Laboratory, China) Precision Preparation of Carbon Materials Driven by Theoretical Mechanisms: From Carbon Nanotubes and Graphene to Diamond
9:30-9:45	Coffee Break

### Room 1

#### Carbon Nanomaterials

Chair-Zhenhui Kang (Soochow University, China), Chang Liu (Institute of Metal Research, CAS, China), Zhiwen Shi (Shanghai Jiao Tong University, China), Rufan Zhang (Tsinghua University, China)

9:45-10:05	<b>Invited Speaking-Yanwu Zhu</b> (University of Science and Technology of China, China) Superatomic Carbon Materials
10:05-10:25	<b>Invited Speaking-Feng Li</b> (Institute of Metal Research, CAS, China) High-Performance Single-Site Catalytic Carbon Materials for Lithium–Sulfur Batteries
10:25-10:45	<b>Invited Speaking-Li Lin</b> (Peking University, China) Crack-free Transfer and Interfacial Engineering of Two-dimensional Materials
10:45-11:05	<b>Invited Speaking-Songnan Qu</b> (University of Macau, Macau, China) Bandgap Engineering of Luminescent Carbon Nanodots and Their Biological Applications
11:05-11:25	<b>Invited Speaking-Muqiang Jian</b> (Beijing Graphene Institute, China) Preparation and Application of High-Performance Carbon Nanotube Fibers
11:25-11:40	<b>Dewu Lin</b> (Peking University, Shenzhen Graduate School, China) Carbon Nanotube Ion Highways in Hydrogels Enable High-Power Aqueous Zinc-ion Batteries
11:40-11:55	<b>Chengyi Liu</b> (The University of Newcastle, Australia) Pressure-Driven Structural Evolution of C <sub>60</sub> and C <sub>60</sub> /Calix[8]arene Complex
11:55-12:10	<b>Huiqiang Liu</b> (Southwest University of Science and Technology, China) Controllable Fabrication of Diamond-Graphite Composite Films via Liquid Small-Molecule Sources for Thermal and Electrical Applications
12:10-14:00	Lunch
14:00-15:00	Laboratory Tour
15:00-15:15	Coffee Break
15:15-17:00	Poster Session
18:00-20:00	Buffet

Room 2

**Growth, Doping, and Wafer Technology**

Chair-Jinlong Liu (University of Science and Technology Beijing, China), Hongdong Li (Jilin University, China), Zeyang Ren (Xidian University, China)

9:45-10:05	<b>Invited Speaking-Xiaojun Hu</b> (Zhejiang University of Technology, China) Ordinary-pressure Phase Transformation from Graphite to Diamond
10:05-10:25	<b>Invited Speaking-Shengcai Zhu</b> (Sun Yat-sen University, China) The Phase Transition Selectivity of Graphite under High Pressure
10:25-10:45	<b>Invited Speaking-Guangchao Chen</b> (University of Chinese Academy of Sciences, China) Re-consideration of CVD Diamond Research on Principle, Equipment and Process Parameters
10:45-11:05	<b>Invited Speaking-Liangxian Chen</b> (University of Science and Technology Beijing, China) A Review of DC Arc Plasma Jet CVD Diamond: Past, Present, Future
11:05-11:25	<b>Invited Speaking-Peng Jin</b> (Institute of Semiconductors, CAS, China) Heteroepitaxial Growth of Single-crystal Diamond on Ir/YSZ/Si Substrates
11:25-11:45	<b>Invited Speaking-Bing Yang</b> (Institute of Metal Research, CAS, China) Single-crystalline Diamond Nanowire Solar Blind Photodetector
11:45-12:05	<b>Invited Speaking-Yan Peng</b> (Shandong University, China) Single-Crystal Diamond with Different Crystal Orientations: From Epitaxial Growth to Material Properties and Device Validation
12:05-12:20	<b>Chen Yang</b> (University of Science and Technology Beijing, China) Low-Temperature Growth of High-Quality Equiaxed Nanocrystalline Diamond Films via MPCVD: Microstructure Evolution and Mechanism
12:20-12:35	<b>Bin He</b> (Shenzhen Technology University, China) Controlled Dislocation Density in Single Crystal Diamond by Plasma Etching and Post-Etch Growth
12:35-14:00	Lunch
14:00-15:00	Laboratory Tour
15:00-15:15	Coffee Break
15:15-17:00	Poster Session
18:00-20:00	Buffet

## Day 4 Thursday 11<sup>th</sup> June

### Room 1

#### Plenary Speaking

Chair-Rodney S. Ruoff (Ulsan National Institute of Science and Technology, Republic of Korea)

8:30-9:00	<b>Plenary Speaking-Shigeo Maruyama</b> (Zhejiang University, China) New Designs for One-Dimensional van der Waals Heterostructures Based on Single-Walled Carbon Nanotubes
9:00-9:30	<b>Plenary Speaking-Zhiqin Chu</b> (The University of Hong Kong, China) Flexible Diamond Membranes
9:30-9:45	Coffee Break

### Room 1

#### Carbon Nanomaterials

Chair-Yanwu Zhu (University of Science and Technology of China, China), Songnan Qu (University of Macau, China), Feng Li (Institute of Metal Research, CAS, China), Qiuchen Zhao (Jilin University, China)

9:45-10:05	<b>Invited Speaking-Zhenhui Kang</b> (Soochow University, China) The Nonlinear Properties of Carbon Quantum Dots and Their Multifunctional Photoelectrocatalytic Applications
10:05-10:25	<b>Invited Speaking-Chang Liu</b> (Institute of Metal Research, CAS, China) Carbon Nanotube Macrostructure-based Hybrids
10:25-10:45	<b>Invited Speaking-Zhiwen Shi</b> (Shanghai Jiao Tong University, China) Low-dimensional Carbon Materials for High-performance Nanoelectronics
10:45-11:05	<b>Invited Speaking-S.G. Buga</b> (National Research Center "Kurchatov Institute", Russia) Multiwavelength Raman Spectra of Collapsed Fullerite Synthesized from Solid C <sub>60</sub> at Pressures 16-25 GPa and Temperatures 1000-1400 °C
11:05-11:25	<b>Invited Speaking-Rufan Zhang</b> (Tsinghua University, China) Synthesis and Applications of Ultralong Carbon Nanotubes and Their Fibers
11:25-11:45	<b>Invited Speaking-Luzhao Sun</b> (Beijing Graphene Institute, China) Graphene Chemical Vapor Deposition: From 2D Films to Graphene-Skinned Powders
11:45-12:05	<b>Invited Speaking-Lixing Kang</b> (Suzhou Institute of Nano-Tech and Nano-Bionics, CAS, China) Confined Synthesis and Wafer-Scale Assembly of 2D Materials
12:05-12:20	<b>Shaowen Zhang</b> (University of Science and Technology Beijing, China) Study on the Working Stability of Carbon-Based Nanofluids
12:20-14:00	Lunch

#### Carbon Nanomaterials

Chair-Lixing Kang (Suzhou Institute of Nano-Tech and Nano-Bionics, CAS, China), Muqiang Jian (Beijing Graphene Institute, China)

14:00-14:15	<b>Kan Liu</b> (Zhejiang University, China)
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	Direct Fabrication of Dense Monolayer Coatings from Unpurified Crude Suspensions of Colloidal Sheets
14:15-14:30	<b>Xiaolu Yuan</b> (University of Science and Technology Beijing, China) Direct Observation of Ni-catalyzed Diamond Graphitization Using In-situ Transmission Electron Microscopy
<b>Theory and Simulations</b> Chair-Nan Gao (Jilin University, China)	
14:30-14:50	<b>Invited Speaking-Jian Sun</b> (Nanjing University, China) Machine Learning-Driven Material Simulations: Method Development and Applications
14:50-15:10	<b>Invited Speaking-Quan Li</b> (Jilin University, China) CALYPSO: Structural Design of Novel Superhard Materials
15:10-15:30	<b>Invited Speaking-Wei Shen</b> (Wuhan University, China) From Atomic Bonding to Macroscopic Thermal Management: A Multiscale Study of Diamond-Based Heterointerface Design and Thermal Transport Based on Machine Learning Potentials
15:30-15:45	<b>Linlin Xiao</b> (Suzhou STR Software Technology Co., Ltd, China) Model of Gas Phase Nucleation for Tuning of Nano- and Polycrystalline Diamond Growth Processes in MPCVD Chamber
15:45-16:00	<b>Xinchang Wang</b> (Shanghai Jiao Tong University, China) Study on Mechanisms of Ar/Cl Plasma Etching Diamonds Based on Hybrid MD/Tfmc Method and Newly-developed Reaxff Parameter Sets
16:00-16:25	
16:25-17:00	<b>YSA Award Ceremony</b> <b>Closing Ceremony</b>
18:00-20:00	Buffet
<b>Room 2</b>	
<b>Growth, Doping, and Wafer Technology</b> Chair-Peng Jin (Institute of Semiconductors, CAS, China), Liangxian Chen (University of Science and Technology Beijing, China), Anmin Nie (Yanshan University, China), Bing Dai (Harbin Institute of Technology, China)	
9:45-10:05	<b>Invited Speaking-Jinlong Liu</b> (University of Science and Technology Beijing, China) Impurity and Defect Modulation in Chemical Vapor Deposition Diamond
10:05-10:25	<b>Invited Speaking-Lishan Zhao</b> (National University of Defense Technology, China) 1k Ohm/sq Class Sheet Resistance of Dopped Single Crystal Diamond with Ultra-Flat Surface
10:25-10:45	<b>Invited Speaking-Xigui Yang</b> (Zhengzhou University, China) Preparation and Property Regulation of Diamond Functional Materials
10:45-11:05	<b>Invited Speaking-Zeyang Ren</b> (Xidian University, China) Growth of Single-Crystal Diamond and Semiconductor Doping
11:05-11:20	<b>Siyi Chan</b> (University of Science and Technology Beijing, China) Mirror-symmetric Growth on the Nucleation Surface for the Fabrication of Thick Optical Diamond

	Materials
11:20-11:35	<b>Min Yoon</b> (Tech University of Korea, Korea) Heteroepitaxial Growth of (100) Single-Crystal Diamond with Reduced Wafer Bow via SiO <sub>2</sub> Nanospheres interlayer
11:35-11:50	<b>Artem Martyanov</b> (Prokhorov General Physics Institute of the Russian Academy of Sciences, Russia) Multilayer Engineering of Polycrystalline Diamond Films via Cyclic Nitrogen Injection: Controlling Surface Roughness and Transport Properties
11:50-12:05	<b>Ulrika D' Haenens-Johansson</b> (Gemological Institute of America, USA) Optimizing Thick (> 1 mm) As-Grown Colorless CVD Diamond Synthesis: Effect of Growth Parameters on Growth Rate, Crystal Quality, and Defect Incorporation
12:05-12:20	<b>Ramasubramanian Kannan</b> (Indian Institute of Technology Madras, Indian) Optimization of Microwave Plasma CVD Growth for High-Purity Free-Standing Polycrystalline Diamond Wafers (2-inch) for Thermal Management Applications
12:20-14:00	Lunch
<b>Mechanical Properties and Thermal Management</b> Chair-Hu Tang (Jilin University, China), Xigui Yang (Zhengzhou University, China), Qiang Tao (Jilin University, China)	
14:00-14:20	<b>Invited Speaking-Mingguang Yao</b> (Jilin University, China) Synthesis of Large-size Single Crystals of cBN
14:20-14:40	<b>Invited Speaking-Anmin Nie</b> (Yanshan University, China) Superhard Materials: Micromechanics and Near-Atomic-Scale Cutting
14:40-15:00	<b>Invited Speaking-Bing Dai</b> (Harbin Institute of Technology, China) Low-Temperature Synthesis of Nanocrystalline Diamond Films and Through-Diamond -Hole for Thermal Management
15:00-15:20	<b>Invited Speaking-Wenbo Hu</b> (Xi'an Jiaotong University, China) Wafer Bonding and Diamond Microchannel Design and Fabrication for Heat Dissipation of Power Devices
15:20-15:40	<b>Invited Speaking-Baochang Liu</b> (Jilin University, China) Improving the Mechanical Performance of Polycrystalline Diamond Compact Cutters for Oil and Gas Drilling
15:40-15:55	<b>Shuailing Ma</b> (Ningbo University, China) The Preparation, Microstructure and Performance Control of Nano Polycrystalline Diamond under High Temperature and High Pressure
15:55-16:10	<b>Jiaqi Zhang</b> (Zhengzhou University, China) Mechanical Properties of Nanodiamonds
16:10-16:25	<b>Liang Zhang</b> (Titan Electro-Optics (Hong Kong) Co., Ltd., Hong Kong, China) Application Cases of Diamond-Based Laue Systems
Room 1	
16:25-17:00	<b>YSA Award Ceremony</b>

**Closing Ceremony**

18:00-20:00

Buffet