Schedule by Room 1

Room		Cap.	March 17 (Mon.)		March 18 (Tue.)		March 19 (Wed.)		March 20 (Thu.)	
			AM	PM	AM	PM	AM	PM	AM	PM
D	D1 D107	81	Tutorial	4.6 Applied laser spectroscopy and instrumentation	11.1 Fundamental properties	11.1 Fundamental properties	4.7 Laser processing	4.7 Laser processing	4.7 Laser processing	
	D2 D113	144			15.2 II-VI-group crystals	Education of the environment and energy	16.2 Processing technologies and devices	16.1 Fundamental properties and their evaluation in disordered materials		
	D3 D114	144	Tutorial	EVALUATION -Evaluation techniques of superconductors for basic to application researches-	15.1 Bulk crystal growth	Three years after the Toden Fukushima Nuclear plant disasters: Current situation and the technical development for the revival	Innovation on energy-saving with laser ignition technologies	14.1 Physical properties of exploratory materials	14.1 Physical properties of exploratory materials	
	D4 D115	81		11.5 Junction, circuit fabrication process and digital applications	11.3 Critical current, superconducting power applications	11.2 Thin films, thick films, coated conductors and thin film crystal growth		11.2 Thin films, thick films, coated conductors and thin film crystal growth		
	D5 D207	81	Tutorial	17.2 Structural control and process	11.4 Analog application and its related technologies	11.4 Analog application and its related technologies	6.6 Probe microscopy	6.6 Probe microscopy	6.6 Probe microscopy	
	D6 D209	81	6.2 Carbon-based thin films	6.2 Carbon-based thin films	6.2 Carbon-based thin films	6.2 Carbon-based thin films	6.4 New thin-film materials	6.4 New thin-film materials		6.4 New thin-film materials
	D7 D214	144	Applied physics and Mathematica	Applied physics and Mathematica	14.5 Compound solar cells	14.5 Compound solar cells	14.5 Compound solar cells	14.5 Compound solar cells		
	D8 D215	144	Tutorial	Structural health monitoring based on optical method	13.2 Insulator technology	13.2 Insulator technology	14.3 Electron devices and Process technology	14.3 Electron devices and Process technology	14.3 Electron devices and Process technology	14.3 Electron devices and Process technology
	D9 D315	144	Tutorial	Recent status of crystalline silicon solar cells	Flexible Electronics	Flexible Electronics	13.1 Basic Properties, Surface and Interface Phenomena, and Simulation	13.1 Basic Properties, Surface and Interface Phenomena, and Simulation	13.1 Basic Properties, Surface and Interface Phenomena, and Simulation	
	D10 D316	144	4.1 Quantum and atom optics	4.1 Quantum and atom optics	6.1 Ferroelectric thin films	Innovation of Ferroelectrics for Materials and Devices	6.1 Ferroelectric thin films	6.1 Ferroelectric thin films		
E	E1 E101	385	Nanoelectronics Innovations and International Collaboration	Special Lecture by Dr. Kazuo Kyuma, Executive Member of the Council for Science and Technology Policy Nanoelectronics Innovations and International Collaboration	Developments and Challenges for Resistance Change Memories Technology	Developments and Challenges for Resistance Change Memories Technology		"Research Frontier of Solid State Electronics: New history of Solid State Devices and Materials Conference"		
	E2 E102	303	17. Nanocarbon Technology (short oral presentation)	JSAP Outstanding Achievement Award/Research Achievement Awards Speech & Presentation The 35th Young Scientist Oral Presentation Award	17.3 Exploration of new functions and evaluation of basic properties 17.2 Structural control and process	17.1 Growth technology	17.3 Exploration of new functions and evaluation of basic properties	17.3 Exploration of new functions and evaluation of basic properties 17.1 Growth technology	17.4 Device application	17.4 Device application
	E3 E103	303		12.4 Organic light-emitting devices and organic transistors	12.4 Organic light-emitting devices and organic transistors	Development of New Structures and Functions through their Molecular Control - Yasukiyo Ueda Memorial Symposium -	12.4 Organic light-emitting devices and organic transistors	12.4 Organic light-emitting devices and organic transistors	12.4 Organic light-emitting devices and organic transistors	
	E4 E104	210	3.4 Optical measurement	3.4 Optical measurement	3.4 Optical measurement	Special Symposium "Women in Applied Physics – Part II: Photonics – "	Silicon Technology Division Awards Speech & Presentation	Regionally produced and consumed energy system		
	E5 E105	210		15.6 IV-group-based compounds	15.6 IV-group-based compounds	15.6 IV-group-based compounds	12.1 Fabrications and Structure Controls	12.1 Fabrications and Structure Controls	12.1 Fabrications and Structure Controls	12.1 Fabrications and Structure Controls
	E6 E106	210	3.6 Biomedical optics	3.6 Biomedical optics	12.3 Functional materials and novel devices		12.3 Functional materials and novel devices	Special Symposium "A new paradigm for industry-academia partnership – Towards the regeneration of Japan's core manufacturing technology"	12.3 Functional materials and novel devices	12.3 Functional materials and novel devices
	E7 E201	357	10. Spintronics and Magnetics (short oral presentation)	10.1 Creation of new materials	10.1 Creation of new materials	Recent progress in spin current research	10.2 Spin torque, spin current, circuits, and measurement technologies	10.2 Spin torque, spin current, circuits, and measurement technologies 10.4 Semiconductors, organic, optical, and quantum spintronics	10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance (TMR) and magnetic recording technologies	10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance (TMR) and magnetic recording technologies
	E8 E202	303	5.4 Optical fiber	5.4 Optical fiber	6.3 Oxide-based electronics	6.3 Oxide-based electronics	6.3 Oxide-based electronics	6.3 Oxide-based electronics	6.3 Oxide-based electronics	6.3 Oxide-based electronics
	E9 E203	303		The trend of electronics technology for the automotive industry	Invited Talk of Plasma Electronics Category	12.5 Organic solar cells	12.5 Organic solar cells	12.5 Organic solar cells	12.5 Organic solar cells	

Schedule by Room 2

Room		Cap.	March 17 (Mon.)		March 18 (Tue.)		March 19 (Wed.)		March 20 (Thu.)	
			AM	PM	AM	PM	AM	PM	AM	PM
E	E10 E204	210	Joint Session K "Wide bandgap oxide semiconductor materials and devices"	Joint Session K "Wide bandgap oxide semiconductor materials and devices"	Joint Session K "Wide bandgap oxide semiconductor materials and devices"	Joint Session K "Wide bandgap oxide semiconductor materials and devices"	Joint Session K "Wide bandgap oxide semiconductor materials and devices"	Creation of New Functional Materials by Wide-bandgap Oxide Semiconductors		
	E11 E205	210	15.3 III-V-group epitaxial crystals 15.7 Fundamentals of epitaxy	15.3 III-V-group epitaxial crystals	15.3 III-V-group epitaxial crystals	14.4 Optical properties and light-emitting devices	14.4 Optical properties and light-emitting devices	14.4 Optical properties and light-emitting devices	14.4 Optical properties and light-emitting devices	
	E12 E206	210		New trends of radiation and particle simulator	16.3 Bulk, thin-film and other silicon-based solar cells	16.3 Bulk, thin-film and other silicon-based solar cells	16.3 Bulk, thin-film and other silicon-based solar cells	16.3 Bulk, thin-film and other silicon-based solar cells	Advanced Trend of Strengthened Glass; fabrication, process, and evaluation	Advanced Trend of Strengthened Glass; fabrication, process, and evaluation
	E13 E301	385	15.4 III-V-group nitride crystals	15.4 III-V-group nitride crystals	15.4 III-V-group nitride crystals	15.4 III-V-group nitride crystals	15.4 III-V-group nitride crystals	Materials science of singularity in nitride semiconductors -growth, fabrication, creation of new functions-	15.4 III-V-group nitride crystals	15.4 III-V-group nitride crystals
	E14 E302	303	12.7 Medical Engineering and Biochips	12.7 Medical Engineering and Biochips	13.3 Si Process/ Interconnect/ MEMS/Integration	13.3 Si Process/ Interconnect/ MEMS/Integration	13.3 Si Process/ Interconnect/ MEMS/Integration	13.3 Si Process/ Interconnect/ MEMS/Integration	13.3 Si Process/ Interconnect/ MEMS/Integration	13.3 Si Process/ Interconnect/ MEMS/Integration
	E15 E303	303	14.2 Ultrathin films and quantum nanostructures	14.2 Ultrathin films and quantum nanostructures	14.2 Ultrathin films and quantum nanostructures	Forefront of nano-biomaterials research	12.7 Medical Engineering and Biochips	12.7 Medical Engineering and Biochips		
	E16 E304	210		4.2 Photonic nonostructures and phenomena	4.2 Photonic nonostructures and phenomena	4.2 Photonic nonostructures and phenomena	12.2 Characterization and Materials Physics	12.2 Characterization and Materials Physics	12.2 Characterization and Materials Physics	
	E17 E305	210		4.5 THz technology	4.5 THz technology	4.5 THz technology	12.6 Nanobiotechnology	12.6 Nanobiotechnology	12.6 Nanobiotechnology	
	E18 E307	210		4.3 Laser systems and materials	4.3 Laser systems and materials	Optics Award Speech	17.1 Growth technology	17.4 Device application 17.2 Structural control and process	17.3 Exploration of new functions and evaluation of basic properties	
F	F1 F201	81		8.3 Plasma deposition of thin film and surface treatment	2.2 Detection systems	7.1 X-ray technologies		2.1 Radiation physics and detectors	2.2 Detection systems	2.2 Detection systems
	F2 F204	81		8.2 Plasma measurements and diagnostics		7.3 Lithography	8.6 General plasma phenomena, emerging area of plasmas and their new applications	8.6 General plasma phenomena, emerging area of plasmas and their new applications	2.3 Application of radiation, radiation generators and technologies	2.3 Application of radiation, radiation generators and technologies
	F3 F301	81	7.5 Particle/photon-beam-induced surface reactions 7.8 New beam-application technologies	8.1 Plasma production and control		7.4 Nanoimprint		8.5 Plasma nanotechnology		
	F4 F304	81	7.6 Ion beams	7.6 Ion beams	1.1 Interdisciplinary and General Physics		1.3 Novel Technologies and Frontier Engineering Science	1.4 Energy conversion and storage 1.5 Resources and environment	1.6 Magnetic field and its application	1.6 Magnetic field and its application
	F5 F305	81		7.7 Vacuum nanoelectronics and electron sources	7.2 Electron microscopes, evaluation, measurement and analysis	1.9 Ultrasonic	1.7 Instrumentation and measurement	1.8 Metrology		
	F6 F306	81	3.1 Basic optics and frontier of optics	3.1 Basic optics and frontier of optics	15.5 IV-group crystals and IV-IV-group mixed crystals	15.5 IV-group crystals and IV-IV-group mixed crystals	8.4 Plasma etching	8.4 Plasma etching		
	F7 F307	144	4.4 Ultrashort-pulse and high-intensity lasers	4.4 Ultrashort-pulse and high-intensity lasers	4.4 Ultrashort-pulse and high-intensity lasers	Plasma Electronics Award Presentation The Current Status and Perspective of Plasma Processing for Graphene Industries in the 21st Century	6.5 Surface physics and vacuum	Beyond vacuum condition: challenges in electron/ion-based analysis in real environments	6.5 Surface physics and vacuum	
	F8 F308	144	Wide Range of Functionality on Multinary Compounds and Their New development of Characterization and application - Toward ICTMC-19 -	Wide Range of Functionality on Multinary Compounds and Their New development of Characterization and application - Toward ICTMC-19 -	5.3 Optical Control	Polarization Reversed devices with a flag of "Frontier"	5.3 Optical Control	5.3 Optical Control	5.3 Optical Control	5.3 Optical Control
	F9 F401	81		5.2 Optical Recording/Display/ Lighting	5.1 Semiconductor laser, Light emitter / Photodetector	5.1 Semiconductor laser, Light emitter / Photodetector		15.8 Crystal evaluation, impurities and crystal defects		
	F10 F406	81	9.5 New functional materials and new physical properties	9.5 New functional materials and new physical properties	3.3 Equipment and device optics	3.5 Information optics & photonics	3.2 Materials optics		13.5 Si-English Session	
	F11 F407	144	9.3 Nanoelectronics	9.3 Nanoelectronics	9.2 Nanowires, nanoparticles	9.2 Nanowires, nanoparticles	9.4 Thermoelectric conversion	9.4 Thermoelectric conversion	9.1 Dielectrics, ferroelectrics	9.1 Dielectrics, ferroelectrics
	F12 F408	144	3.7 Nano-optics	3.7 Nano-optics	3.7 Nano-optics	3.7 Nano-optics	13.4 Devices/ Integration Technologies	13.4 Devices/ Integration Technologies	13.4 Devices/ Integration Technologies	13.4 Devices/ Integration Technologies

Schedule by Room 3

Room		Cap.	March 17 (Mon.)		March 18 (Tue.)		March 19 (Wed.)		March 20 (Thu.)	
			AM	PM	AM	PM	AM	PM	AM	PM
PA (Arena)	PA1 ~ PA12	Poster Session	4.2 Photonic nanostructures and phenomena 4.5 THz technology 4.6 Applied laser spectroscopy and instrumentation 16.3 Bulk, thin-film and other silicon-based solar cells	[1:30 pm - 3:30 pm] 10. Spintronics and Magnetics [4:00 pm - 6:00 pm] 4.1 Quantum and atom optics 5. Optoelectronics	1.2 Education 7.1 X-ray technologies 7.3 Lithography 7.6 Ion beams 12.2 Characterization and Materials Physics 12.5 Organic solar cells	[1:30 pm - 3:30 pm] 3.1 Basic optics and frontier of optics 3.4 Optical measurement 4.3 Laser systems and materials 4.4 Ultrashort-pulse and high-intensity lasers 4.7 Laser processing 8.2 Plasma measurements and diagnostics 8.4 Plasma etching 8.6 General plasma phenomena, emerging area of plasmas and their new applications [4:00 pm - 6:00 pm] 3.2 Materials optics 3.3 Equipment and device optics 13.1 Basic Properties, Surface and Interface Phenomena, and Simulation 13.4 Devices/ Integration Technologies	2. Ionizing radiation 3.7 Nano-optics 8.1 Plasma production and control 8.3 Plasma deposition of thin film and surface treatment 8.5 Plasma nanotechnology 9.2 Nanowires, nanoparticles	[1:30 pm - 3:30 pm] 1.1 Interdisciplinary and General Physics 1.3 Novel Technologies and Frontier Engineering Science 1.4 Energy conversion and storage 1.6 Magnetic field and its application 1.7 Instrumentation and measurement 1.8 Metrology 1.9 Ultrasonic 12.3 Functional materials and novel devices	6.4 New thin-film materials	
PG (G Bldg. 2F)	PG1 ~ PG12		12.4 Organic light-emitting devices and organic transistors 15.5 IV-group crystals and IV-IV-group mixed crystals 15.6 IV-group-based compounds	[1:30 pm - 3:30 pm] 17. Nanocarbon Technology [4:00 pm - 6:00 pm] 6.1 Ferroelectric thin films 6.3 Oxide-based electronics Joint Session K "Wide bandgap oxide semiconductor materials and devices"	3.5 Information optics & photonics 3.6 Biomedical optics 12.1 Fabrications and Structure Controls 12.6 Nanobiotechnology 12.7 Medical Engineering and Biochips 14.4 Optical properties and light-emitting devices	[1:30 pm - 3:30 pm] 7.2 Electron microscopes, evaluation, measurement and analysis 14.2 Ultrathin films and quantum nanostructures 14.3 Electron devices and Process technology 14.5 Compound solar cells 15.2 II-VI-group crystals 15.3 III-V-group epitaxial crystals 15.7 Fundamentals of epitaxy [4:00 pm - 6:00 pm] 6.5 Surface physics and vacuum 6.6 Probe microscopy 9.3 Nanoelectronics 9.4 Thermoelectric conversion 9.5 New functional materials and new physical properties	6.2 Carbon-based thin films 11. Superconductivity 14.1 Physical properties of exploratory materials 15.1 Bulk crystal growth 15.8 Crystal evaluation, impurities and crystal defects	[4:00 pm - 6:00 pm] 9.1 Dielectrics, ferroelectrics 13.2 Insulator technology 13.3 Si Process/ Interconnect/ MEMS/Integration 13.5 Si-English Session	15.4 III-V-group nitride crystals	