

# Schedule by Room 1

Room	Cap.	March 11 (Wed.)		March 12 (Thu.)		March 13 (Fri.)		March 14 (Sat.)	
		AM	PM	AM	PM	AM	PM	AM	PM
<b>A1</b> 6A-105	114		11.3 Critical Current, Superconducting Power Applications		11.2 Thin and thick superconducting films, coated conductors and film crystal growth		11.2 Thin and thick superconducting films, coated conductors and film crystal growth		
<b>A2</b> 6A-106	114		11.1 Fundamental properties		11.1 Fundamental properties		11.5 Junction and circuit fabrication processes, digital applications	11.5 Junction and circuit fabrication processes, digital applications	
<b>A3</b> 6A-107	114				11.4 Analog applications and their related technologies			11.4 Analog applications and their related technologies	
<b>A10</b> 6A-115	105	13.7 Quantum properties and fabrications of nanoscale structures and devices		3.11/13.7 codesharing session	3.11 Photonic structures and phenomena	3.11 Photonic structures and phenomena	3.11 Photonic structures and phenomena	3.4 Biomedical optics	3.4 Biomedical optics
<b>A11</b> 6A-116	105	3.7 Laser processing	3.7 Laser processing	3.7 Laser processing	7.2 Applications and technologies of electron beams	3.7 Laser processing	3.3 Information photonics and image engineering	3.3 Information photonics and image engineering	3.3 Information photonics and image engineering
<b>A12</b> 6A-101	105	3.12 Nanoscale optical science and near-field optics	3.12 Nanoscale optical science and near-field optics	3.12 Nanoscale optical science and near-field optics	Theory and Practice of Nanoelectron-photon Interaction via Dissipation and Fluctuations	3.12 Nanoscale optical science and near-field optics		3.1 Basic optics and frontier of optics	3.1 Basic optics and frontier of optics
<b>A13</b> 6A-102	105	3.14 Optical control devices and optical fibers	3.14 Optical control devices and optical fibers	3.14 Optical control devices and optical fibers	3.2 Equipment optics and materials	3.5/3.14 codesharing session	3.5 Laser system and materials	3.5 Laser system and materials	
<b>A14</b> 6A-103	105	3.8 Optical measurement, instrumentation, and sensor	3.8 Optical measurement, instrumentation, and sensor	3.9 Terahertz technologies	3.9 Terahertz technologies	3.9 Terahertz technologies	3.9 Terahertz technologies	3.8 Optical measurement, instrumentation, and sensor	3.8 Optical measurement, instrumentation, and sensor
<b>A15</b> 6A-205	114			3.6 Ultrashort-pulse and high-intensity lasers	3.6 Ultrashort-pulse and high-intensity lasers	3.0 Optics and Photonics English Session	3.6 Ultrashort-pulse and high-intensity lasers	3.6 Ultrashort-pulse and high-intensity lasers	3.6 Ultrashort-pulse and high-intensity lasers
<b>A16</b> 6A-206	114		3.15 Silicon photonics	3.15 Silicon photonics	3.15 Silicon photonics	7.5 Atomic/molecular beams and beam-related new technologies		7.4 Buried interface sciences with quantum beams	
<b>A17</b> 6A-207	114	3.10 Optical quantum physics and technologies	3.10 Optical quantum physics and technologies	3.13 Semiconductor optical devices	3.13 Semiconductor optical devices	13.10/15.2 codesharing session	15.2 II-VI and related compounds		
<b>A18</b> 6A-208	114			16.3 Bulk, thin-film and other silicon-based solar cells	15.8 Crystal evaluation, impurities and crystal defects				
<b>A19</b> 6A-211	114	2.3 Application, radiation generators, new technology	2.3 Application, radiation generators, new technology	2.2 Detection systems	2.2 Detection systems	2.1 Radiation physics and Detector fundamentals	2.1 Radiation physics and Detector fundamentals	2.2 Detection systems	2.2 Detection systems
<b>A20</b> 6A-212	114	9.5 New functional materials and new phenomena	9.5 New functional materials and new phenomena	9.2 Nanowires and Nanoparticles	9.2 Nanowires and Nanoparticles			9.3 Nanoelectronics	9.3 Nanoelectronics
<b>A21</b> 6A-213	114	13.8 Compound and power electron devices and process technology	13.8 Compound and power electron devices and process technology	13.8 Compound and power electron devices and process technology	13.8 Compound and power electron devices and process technology	6.1 Ferroelectric thin films	6.1 Ferroelectric thin films	6.1 Ferroelectric thin films	
<b>A22</b> 6A-214	114			9.4 Thermoelectric conversion	9.4 Thermoelectric conversion	9.4 Thermoelectric conversion			
<b>A23</b> 6A-216	105	13.5 Semiconductor devices and related technologies	13.5 Semiconductor devices and related technologies	13.6 Semiconductor English Session	13.5 Semiconductor devices and related technologies	13.5 Semiconductor devices and related technologies	13.5 Semiconductor devices and related technologies		
<b>A24</b> 6A-217	105				13.7 Quantum properties and fabrications of nanoscale structures and devices	13.3 Insulator technology		13.3 Insulator technology	
<b>A25</b> 6A-218	105	13.9 Optical properties and light-emitting devices	13.9 Optical properties and light-emitting devices	13.9 Optical properties and light-emitting devices	13.9 Optical properties and light-emitting devices	13.2 Exploratory Materials, Physical Properties, Devices	13.2 Exploratory Materials, Physical Properties, Devices	13.2 Exploratory Materials, Physical Properties, Devices	13.2 Exploratory Materials, Physical Properties, Devices
<b>A26</b> 6A-201	105		7.1 X-ray technologies	13.10 Compound solar cells	13.10 Compound solar cells, 15.2 II-VI and related compounds	13.10 Compound solar cells		13.10 Compound solar cells	
<b>A27</b> 6A-202	105	13.1 Fundamental properties, surface and interface, and simulations of Si related materials	8.2 Plasma measurements and diagnostics	13.1 Fundamental properties, surface and interface, and simulations of Si related materials	13.1 Fundamental properties, surface and interface, and simulations of Si related materials	8.3 Plasma deposition of thin film and surface treatment	8.5 Plasma nanotechnology	8.4 Plasma etching	
<b>A28</b> 6A-203	105		8.7 Plasma phenomena, emerging area of plasmas and their new applications	16.1 Fundamental properties and their evaluation in disordered materials	16.1 Fundamental properties and their evaluation in disordered materials	8.6 Plasma life sciences	8.1 Plasma production and control	8.1 Plasma production and control	

## Schedule by Room 2

Room	Cap.	March 11 (Wed.)		March 12 (Thu.)		March 13 (Fri.)		March 14 (Sat.)	
		AM	PM	AM	PM	AM	PM	AM	PM
A	<b>A29</b> 6A-204	105	13.4 Si wafer processing /MEMS/ Integration technology	13.4 Si wafer processing /MEMS/ Integration technology	13.4 Si wafer processing /MEMS/ Integration technology	How should we behave as future scientists? - Innovative value creation of integration technology by young generations -		13.4 Si wafer processing /MEMS/ Integration technology	13.4 Si wafer processing /MEMS/ Integration technology
	<b>B1</b> 6B-101	340	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	15.4 III-V-group nitride crystals	Materials science of singularity in nitride semiconductors-Growth, processing and electronic application-
	<b>B2</b> 6B-102	340	7.3 Micro/Nano patterning and fabrication	7.3 Micro/Nano patterning and fabrication		Kickoff Symposium for Group of Research and Joint-Effort on Industry-Academia Partnership	Memorial Symposium for Prof. K. Kitazawa and Prof. H. Maeda	Memorial Symposium for Prof. K. Kitazawa and Prof. H. Maeda	PHONON ENGINEERING: material science, theory/simulation and measurement technologies for Nano-scale thermal management and device innovation
	<b>B3</b> 6B-103	190		State of the art technology in electron and focused-ion-beam apparatuses		Optical sensing utilized in space and earth observations	Women in Applied Physics - Part III: Bioelectronics -		
	<b>B4</b> 6B-104	190		Quantum Photonics: Toward a new paradigm of quantum information technology	15.6 Group IV Compound Semiconductors	Progress of power semiconductors, toward wide band-gap materials beyond silicon	15.6 Group IV Compound Semiconductors	15.6 Group IV Compound Semiconductors	15.6 Group IV Compound Semiconductors
	<b>B5</b> 6B-105	190		Advanced CMOS Technology and Its Future Scope	9.1 Dielectrics, ferroelectrics	Guidelines for Development of Ferroelectric Materials in the Following Generation			
<b>B6</b> 6B-106	190	Feasibility of integration of perovskite semiconductors into multinary compounds solar cells	Feasibility of integration of perovskite semiconductors into multinary compounds solar cells		Advanced and Practical 3D Fabrication Techniques Using Lasers	A vision of future spintronics ~What is the next in spintronics?			
C	<b>C1</b> 6C-104	180		6.2 Carbon-based thin films	6.2 Carbon-based thin films	6.2 Carbon-based thin films			7.6 Ion beams
	<b>C2</b> 6C-207	171	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	Growth and characterization of bulk crystalline silicon for photovoltaic application	
	<b>C3</b> 6C-201	117				The latest trend of the lithography technology			
D	<b>D1</b> 16-101	165	Joint Session K	Joint Session K	Joint Session K	Valence-electron metamorphology in oxide semiconductors		Joint Session K	Joint Session K
	<b>D2</b> 16-102	121	12.1 Fabrications and Structure Controls	12.1 Fabrications and Structure Controls	12.1 Fabrications and Structure Controls	Polarity-reversed optical device handling quantum photons		10.4 Semiconductors, organic, optical, and quantum spintronics	10.4 Semiconductors, organic, optical, and quantum spintronics
	<b>D3</b> 16-203	121	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		12.4 Organic light-emitting devices and organic transistors		12.4 Organic light-emitting devices and organic transistors
	<b>D4</b> 16-204	121	12.3 Functional Materials and Novel Devices	12.3 Functional Materials and Novel Devices	12.3 Functional Materials and Novel Devices	12.3 Functional Materials and Novel Devices	12.3 Functional Materials and Novel Devices	15.3 III-V-group epitaxial crystals	15.3 III-V-group epitaxial crystals
	<b>D5</b> 16-205	121	12.6 Nanobiotechnology	12.6 Nanobiotechnology	15.5 Group IV crystals and alloys	Visualization and application of biointerfaces	12.6 Nanobiotechnology	12.6 Nanobiotechnology	
	<b>D6</b> 16-206	121	12.7 Biomedical Engineering and Biochips	12.7 Biomedical Engineering and Biochips	17.2 Structure control and process	17.1 Growth technology	12.7 Biomedical Engineering and Biochips	12.7 Biomedical Engineering and Biochips	12.7 Biomedical Engineering and Biochips
	<b>D7</b> 16-207	121	15.5 Group IV crystals and alloys	15.5 Group IV crystals and alloys	17.2 Structure control and process	17.1 Growth technology	17.3 Exploration of new functions and evaluation of basic properties		17.4 Device applications
	<b>D8</b> 16-303	121	6.4 Thin films and New materials	17.3 Exploration of new functions and evaluation of basic properties	6.4 Thin films and New materials	6.4 Thin films and New materials	17.3 Exploration of new functions and evaluation of basic properties	17.3 Exploration of new functions and evaluation of basic properties	17.2 Structure control and process

# Schedule by Room 3

Room	Cap.	March 11 (Wed.)		March 12 (Thu.)		March 13 (Fri.)		March 14 (Sat.)		
		AM	PM	AM	PM	AM	PM	AM	PM	
D	<b>D9</b> 16-304	121	6.5 Surface Physics, Vacuum	Fabrication and characterization of nano-structures prepared with advanced shadowing deposition systems	6.6 Probe Microscopy	Recent development of titanium dioxide		6.6 Probe Microscopy	6.6 Probe Microscopy	6.6 Probe Microscopy
	<b>D10</b> 16-305	121	6.3 Oxide electronics	6.3 Oxide electronics	6.3 Oxide electronics	New functionality of oxides generated by spin-orbit interaction	6.3 Oxide electronics	6.3 Oxide electronics	6.3 Oxide electronics	6.3 Oxide electronics
	<b>D11</b> 16-306	121		10.1 Emerging materials in spintronics and magnetics (excluding semiconductors)	10.1 Emerging materials in spintronics and magnetics (excluding semiconductors)	10.2 Spin torque, spin current, circuits, and measurement technologies		10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance (TMR) and magnetic recording technologies	10.5 Application of magnetic field	10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance (TMR) and magnetic recording technologies
	<b>D12</b> 16-501	77	1.5 Resources and environment	1.7 Ultrasonic	1.4 Energy conversion and storage			1.1 Interdisciplinary and General Physics	1.6 Instrumentation, measurement and Metrology	1.6 Instrumentation, measurement and Metrology
	<b>D13</b> 16-502	99		1.3 Novel technologies and interdisciplinary engineering	15.1 Bulk crystal growth	6.5 Surface Physics, Vacuum	Research forefront of shock wave and high & micro-gravity application science		15.1 Bulk crystal growth	
	<b>D14</b> 16-503	286			8.0 Plasma Electronics English Session 8.8 Plasma Electronics Invited Lecture Plasma Electronics Award Ceremony	Synthesizing methods for fine particles and their latest applications	6.6/12.2 codesharing session	12.2 Characterization and Materials Physics	12.2 Characterization and Materials Physics	12.2 Characterization and Materials Physics
	<b>D15</b> 16-504	286	12.5 Organic solar cells	12.5 Organic solar cells	12.5 Organic solar cells	Sensing Technologies for the Future of Automobile Society ~ The Prospect and Challenge of Autonomous Driving System ~	12.5 Organic solar cells	12.5 Organic solar cells	12.5 Organic solar cells	12.5 Organic solar cells
E	<b>E1</b> Matsumae Memorial Hall	490	Award Ceremony	Outstanding Achievement Award Lecture  Award Ceremony		Smart Energy Revolution form KANAGAWA			Science Square in Shonan Campus of Tokai University Part 2 Science Square and Science Shows	
F	<b>F1</b> 2N-101	1000						Science Square in Shonan Campus of Tokai University Part 1 symposium		
P (Gymnasium)	<b>P1</b> ~ <b>P19</b>		1.4 Energy conversion and storage 1.7 Ultrasonic 3.11 Photonic structures and phenomena 6.2 Carbon-based thin films 7.1 X-ray technologies 17 Nanocarbon Technology	[1:30 pm - 3:30 pm] 10 Spintronics and Magnetics 15.6 Group IV Compound Semiconductors	2.1 Radiation physics and Detector fundamentals 2.2 Detection systems 2.3 Application, radiation generators, new technology 3.4 Biomedical optics 3.5 Laser system and materials 3.10 Optical quantum physics and technologies 7.2 Applications and technologies of electron beams 7.3 Micro/Nano patterning and fabrication 11 Superconductivity 12.6 Nanobiotechnology 12.7 Biomedical Engineering and Biochips 13.3 Insulator technology 13.5 Semiconductor devices and related technologies	[1:30 pm - 3:30 pm] 1.1 Interdisciplinary and General Physics 1.3 Novel technologies and interdisciplinary engineering 1.5 Resources and environment 6.6 Probe Microscopy 9.5 New functional materials and new phenomena 12.2 Characterization and Materials Physics 12.5 Organic solar cells 13.2 Exploratory Materials, Physical Properties, Devices	[4:00 pm - 6:00 pm] 8.1 Plasma production and control 8.3 Plasma deposition of thin film and surface treatment 8.6 Plasma life sciences 12.4 Organic light-emitting devices and organic transistors 13.7 Quantum properties and fabrications of nanoscale structures and devices 15.1 Bulk crystal growth 15.2 II-VI and related compounds 15.4 III-V-group nitride crystals 15.5 Group IV crystals and alloys	[4:30 pm - 6:30 pm] 1.2 Education 3.7 Laser processing 3.12 Nanoscale optical science and near-field optics 3.13 Semiconductor optical devices 6.3 Oxide electronics 6.4 Thin films and New materials 6.5 Surface Physics, Vacuum 7.4 Buried interface sciences with quantum beams 7.5 Atomic/molecular beams and beam-related new technologies 7.6 Ion beams 8.7 Plasma phenomena, emerging area of plasmas and their new applications 9.2 Nanowires and Nanoparticles 9.3 Nanoelectronics 9.4 Thermoelectric conversion 12.3 Functional Materials and Novel Devices 13.1 Fundamental properties, surface and interface, and simulations of Si related materials 13.8 Compound and power electron devices and process technology 13.9 Optical properties and light-emitting devices 13.10 Compound solar cells, 15.2 II-VI and related compounds		