

Schedule by Category (I)

Category	Sep. 13 (Tue.)		Sep. 14 (Wed.)		Sep. 15 (Thu.)		Sep. 16 (Fri.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
Symposium								
S.1 Development of Classes for Enhancing Learner's Motivation Practice Cases leading to Active Learning		B10 13:45 ~ 16:45						
S.7 30 years anniversary for Nobel prize of STM and development of AFM		A31 13:15 ~ 17:30						
S.8 Active Woman Researchers in the Field of Surface and Thin Film		A32 13:15 ~ 18:00						
S.9 Toward future applications of oxides electronics; past, present and future		A22 13:15 ~ 18:15						
S.13 Material processing using magnetic field effect on feeble magnetic		A34 13:15 ~ 16:30						
S.15 English session: Joint symposium on Nanobiotechnology and Biosensing		B1 13:15 ~ 18:00		P23 16:00 ~ 18:00				
S.19 Recent topics of point defects in semiconductor crystals		B8 13:45 ~ 18:00						
S.24 Thermonanophotonics		C302 13:45 ~ 18:00						
S.25 Current Trends and Issues in Nanointerface Phenomena and the Characterization Techniques		B7 13:15 ~ 18:15						
S.26 New characterization technologies for functional properties of multinary compounds - new insight into development of multinary compound devices -		B9 13:30 ~ 18:00						
S.3 Recent progress of radiaiton measurement by a passive-type detector in medical applications.				B9 13:45 ~ 17:30				
S.4 Symposium of Photonics Division, "Researchers pioneering next-generation photonics"				A41 13:15 ~ 18:00				
S.5 Hybrid Quantum Information Science and Technology				B8 13:45 ~ 18:00				
S.10 Classification and designation on carbon based films as diamond-like carbon (DLC) films -Advanced measurement technology to support the standardization, and industrial application aimed at the world market-				A23 13:30 ~ 17:30				
S.11 Cutting-edge plasma diagnostics for deeper understanding and control of atmospheric and multi-phase plasmas				A22 13:30 ~ 17:45				
S.17 Crystallization of IV element Semiconductor thin-film and Deffects control				B7 12:30 ~ 19:15				
S.18 IoT/IoE Device Technologies for AI and Deap Learning era				B1 13:45 ~ 16:15				
S.20 Recent Progress of Nitride Semiconductor -Toward Defectless Crystal and Devices-				A21 13:00 ~ 19:00				
S.22 Present status and future prospects on reliability of photovoltaic modules				A24 13:00 ~ 18:00				
S.23 Trend of Functional Atomic Thin Film Research-Thin Film Growth-				A33 13:15 ~ 18:15				
S.2 Materials and Physics of Solar-Hydrogen Production Catalysts					A24 13:00 ~ 17:30			
S.6 Aspects on Photonic Intelligence					A32 13:15 ~ 17:00			
S.14 Physics of the New Spintronics Phenomena for Future Applications					C41 13:15 ~ 17:00			
S.16 Electronic devices and biology: towards a prosperous symbiosis					B11 13:45 ~ 19:00			
S.21 Materials Science and Advanced Electronics Created by Singularity of Nitride Semiconductots					A21 13:15 ~ 18:15			
S.12 Thermoelectric conversion in the present and future: How much can we increase ZT?						A34 08:45 ~ 12:15		

Schedule by Category (II)

Category	Sep. 13 (Tue.)		Sep. 14 (Wed.)		Sep. 15 (Thu.)		Sep. 16 (Fri.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
1 Interdisciplinary Physics and Related Areas of Science and Technology								
1.1 Interdisciplinary and General Physics				P11 16:00 ~ 18:00				
1.2 Education			P1 09:30 ~ 11:30					
1.3 Novel technologies and interdisciplinary engineering			D63 09:15 ~ 12:00	P12 16:00 ~ 18:00				
1.4 Energy conversion, storage, resources and environment			A36 09:00 ~ 12:45	P13 16:00 ~ 18:00				
1.5 Instrumentation, measurement and Metrology						P1 13:30 ~ 15:30	C42 09:00 ~ 12:15	
1.6 Ultrasonics	D63 10:00 ~ 12:00	P1 13:30 ~ 15:30						
		D63 16:00 ~ 18:00						
2 Ionizing Radiation								
2.1 Radiation physics and Detector fundamentals			D61 09:00 ~ 10:30		A37 09:00 ~ 11:45	A37 13:15 ~ 15:15		
2.2 Detection systems		B12 13:00 ~ 18:00				P14 16:00 ~ 18:00		
2.3 Application, radiation generators, new technology							A37 09:00 ~ 12:15	
3 Optics and Photonics								
3.1 Basic optics and frontier of optics			B9 09:00 ~ 12:30	P1 13:30 ~ 15:30				
3.2 Equipment optics and materials						C42 13:45 ~ 16:45	P1 09:30 ~ 11:30	
3.3 Information photonics and image engineering					C42 09:00 ~ 12:15		P2 09:30 ~ 11:30	C42 13:45 ~ 16:45
3.4 Biomedical optics				C42 13:15 ~ 19:00	P1 09:30 ~ 11:30			
3.5 Laser system and materials	B3 09:00 ~ 12:15	B3 13:45 ~ 16:15		P2 13:30 ~ 15:30				
3.6 Ultrashort-pulse and high-intensity lasers			C32 09:15 ~ 12:15	C32 13:45 ~ 17:30	P2 09:30 ~ 11:30			
3.7 Laser processing	C31 09:30 ~ 12:00		C31 09:30 ~ 12:15	C31 13:45 ~ 17:30	P3 09:30 ~ 11:30			
3.8 Optical measurement, instrumentation, and sensor			P2 09:30 ~ 11:30		C32 09:00 ~ 12:15		C32 09:00 ~ 12:15	C32 13:45 ~ 16:00
3.9 Terahertz technologies			B2 09:00 ~ 12:00	B2 13:15 ~ 18:15			B2 09:00 ~ 12:30	P1 13:30 ~ 15:30
3.10 Optical quantum physics and technologies		B2 13:45 ~ 17:00			P4 09:30 ~ 11:30			
3.11 Photonic structures and phenomena				P14 16:00 ~ 18:00		B4 15:45 ~ 19:00	B4 09:00 ~ 12:45	
3.12 Nanoscale optical science and near-field optics					P5 09:30 ~ 11:30	B12 13:45 ~ 19:00	B12 09:00 ~ 12:15	B12 13:45 ~ 16:30
3.13 Semiconductor optical devices					P6 09:30 ~ 11:30		A35 09:00 ~ 11:45	A35 13:15 ~ 15:30
3.14 Optical control devices and optical fibers				B3 13:45 ~ 16:30	P7 09:30 ~ 11:30			
3.15 Silicon photonics			B4 10:30 ~ 11:45	B4 13:45 ~ 18:00	P8 09:30 ~ 11:30			
4 JSAP-OSA Joint Symposia 2016								
4.1 Plasmonics	C302 09:00 ~ 12:00	P6 16:00 ~ 18:00	C302 09:00 ~ 12:15	C302 15:00 ~ 18:00				
4.2 Bio-and Medical Photonics					C31 09:15 ~ 12:15	C31 13:45 ~ 16:45		
4.3 Optical Micro-sensing, Manipulation, and Fabrications				C302 13:45 ~ 14:45				
				C301 15:15 ~ 19:00				
4.4 Opto-electronics		P6 16:00 ~ 18:00					C301 09:00 ~ 12:00	C301 13:30 ~ 17:15
4.5 Information Photonics	C301 09:00 ~ 12:15		C301 09:00 ~ 12:15					
4.6 Nanocarbon and 2D Materials		A37 13:15 ~ 17:45						
4.7 Terahertz Photonics		P6 16:00 ~ 18:00				C301 13:15 ~ 17:30		
4.8 Strong Light Excitation Phenomena Applied to Materials and Bio Engineering		C301 13:45 ~ 18:00						
		P6 16:00 ~ 18:00						
6 Thin Films and Surfaces								
6.1 Ferroelectric thin films	A23 09:00 ~ 11:45	A23 13:15 ~ 16:45	A23 09:00 ~ 11:45	P3 13:30 ~ 15:30				
6.2 Carbon-based thin films		A26 13:15 ~ 18:00	A26 09:00 ~ 11:45	A26 13:15 ~ 17:45	A26 09:00 ~ 12:00	P2 13:30 ~ 15:30		
6.3 Oxide electronics	A31 09:00 ~ 11:45		A31 09:30 ~ 12:00	A31 13:30 ~ 17:45	A31 09:00 ~ 12:15	P3 13:30 ~ 15:30	A31 09:30 ~ 11:45	
6.4 Thin films and New materials	D62 09:00 ~ 12:15	D62 13:45 ~ 17:30	A37 09:00 ~ 11:45	A37 13:15 ~ 17:45				
		P7 16:00 ~ 18:00						
6.5 Surface Physics, Vacuum						P15 16:00 ~ 18:00	B3 09:00 ~ 10:30	B3 13:45 ~ 16:15
6.6 Probe Microscopy			A32 09:30 ~ 11:15	A32 13:15 ~ 17:30	A32 09:30 ~ 11:15	P4 13:30 ~ 15:30		

Schedule by Category (III)

Category Section	Sep. 13 (Tue.)		Sep. 14 (Wed.)		Sep. 15 (Thu.)		Sep. 16 (Fri.)	
	AM	PM	AM	PM	AM	PM	AM	PM
7 Beam Technology and Nanofabrication								
7.1 X-ray technologies		P2 13:30 ~ 15:30						
		C31 13:45 ~ 17:00						
7.2 Applications and technologies of electron beams				P15 16:00 ~ 18:00		B5 13:15 ~ 18:45		
7.3 Micro/Nano patterning and fabrication	D61 09:00 ~ 12:15			P16 16:00 ~ 18:00				
7.4 Buried interface sciences with quantum beam	A25 09:00 ~ 12:30	P3 13:30 ~ 15:30						
7.5 Ion beams		P4 13:30 ~ 15:30		B6 13:45 ~ 17:15				
7.6 Atomic/molecular beams and beam-related new technologies				P17 16:00 ~ 18:00				
8 Plasma Electronics								
8.1 Plasma production and control					B7 09:00 ~ 12:30			P2 13:30 ~ 15:30
8.2 Plasma measurements and diagnostics	B7 09:00 ~ 11:45					P5 13:30 ~ 15:30		
8.3 deposition of thin film and surface treatment						P6 13:30 ~ 15:30		B7 13:15 ~ 16:45
8.4 Plasma etching	B9 09:00 ~ 11:45					P7 13:30 ~ 15:30		
8.5 nanotechnology.							B7 09:00 ~ 11:30	P3 13:30 ~ 15:30
8.6 Plasma life sciences						B7 13:45 ~ 18:30		P4 13:30 ~ 15:30
8.7 Plasma phenomena, emerging area of plasmas and their new applications						P8 13:30 ~ 15:30	B13 09:00 ~ 11:45	
8.8 Plasma Electronics English Session		A41 14:45 ~ 16:15						P5 13:30 ~ 15:30
8.9 Plasma Electronics Invited Talk		A41 13:00 ~ 14:30	A22 11:00 ~ 11:30					
8.10 Plasma Electronics Award Ceremony			A22 09:45 ~ 10:45					
9 Applied Materials Science								
9.1 Dielectrics, ferroelectrics					D62 09:30 ~ 11:45	P16 16:00 ~ 18:00		
9.2 Nanowires and Nanoparticles			D62 09:00 ~ 12:15	D62 13:30 ~ 19:00	P9 09:30 ~ 11:30			
9.3 Nanoelectronics	C42 09:45 ~ 12:00	C42 13:30 ~ 16:00				P17 16:00 ~ 18:00		
9.4 Thermoelectric conversion					A35 09:00 ~ 12:00	A35 13:30 ~ 18:00		
9.5 New functional materials and new phenomena		A25 13:45 ~ 17:00	P3 09:30 ~ 11:30					
10 Spintronics and Magnetics								
10.1 Emerging materials in spintronics and magnetics (excluding semiconductors)	A22 09:00 ~ 12:00	P8 16:00 ~ 18:00						
10.2 Spin torque, spin current, circuits, and measurement technologies			C41 09:00 ~ 10:30		C41 10:45 ~ 12:15			C41 13:15 ~ 14:45
10.3 Giant magnetoresistance (GMR), tunnel magnetoresistance (TMR) and magnetic recording technologies					C41 09:00 ~ 10:30			
10.4 Semiconductors, organic, optical, and quantum spintronics			C41 10:45 ~ 12:15	C41 13:15 ~ 19:00				
10.5 Application of magnetic field	A34 10:45 ~ 12:15							
11 Superconductivity								
11.1 Fundamental properties			P4 09:30 ~ 11:30		D63 09:15 ~ 11:15	D63 12:45 ~ 17:45		
11.2 Thin and thick superconducting films, coated conductors and film crystal growth				D63 13:15 ~ 16:00				
11.3 Critical Current, Superconducting Power Applications				D63 16:00 ~ 19:00				
11.4 Analog applications and their related technologies				D61 13:15 ~ 19:00	D61 09:00 ~ 11:45			
11.5 Junction and circuit fabrication process, digital applications						D61 13:15 ~ 17:00		
12 Organic Molecules and Bioelectronics								
12.1 Fabrications and Structure Controls					B5 09:00 ~ 12:15		B5 09:00 ~ 12:30	P6 13:30 ~ 15:30
12.2 Characterization and Materials Physics		B5 13:45 ~ 17:45	B5 09:00 ~ 12:15	B5 13:45 ~ 17:00		P9 13:30 ~ 15:30		
12.3 Functional Materials and Novel Devices			P5 09:30 ~ 11:30	B13 13:45 ~ 18:00	B13 09:00 ~ 12:00	B13 13:45 ~ 15:30		
12.4 Organic light-emitting devices and organic transistors	B11 09:00 ~ 11:45	B11 13:15 ~ 17:30	B11 09:00 ~ 11:30	B11 13:15 ~ 17:00	B11 09:00 ~ 12:00			P7 13:30 ~ 15:30
12.5 Organic solar cells		B4 13:15 ~ 15:30	A41 09:00 ~ 12:00		A41 09:00 ~ 12:15	A41 13:15 ~ 18:00	A41 09:00 ~ 12:00	A41 13:15 ~ 15:30
		P9 16:00 ~ 18:00						
12.6 Nanobiotechnology	B10 09:00 ~ 12:15		B10 09:00 ~ 12:15	B10 13:45 ~ 15:45				
				P18 16:00 ~ 18:00				
12.7 Biomedical Engineering and Biochips	B8 09:00 ~ 12:15		B8 09:00 ~ 12:15	P19 16:00 ~ 18:00	B8 09:00 ~ 12:15		B8 09:00 ~ 12:00	

Schedule by Category (IV)

Category	Sep. 13 (Tue.)		Sep. 14 (Wed.)		Sep. 15 (Thu.)		Sep. 16 (Fri.)	
Section	AM	PM	AM	PM	AM	PM	AM	PM
13 Semiconductors								
13.1 Fundamental properties, surface and interface, and simulations of Si related materials				P4 13:30 ~ 15:30	B2 10:00 ~ 12:15	B2 13:45 ~ 17:30		
13.2 Exploratory Materials, Physical Properties, Devices					B3 09:00 ~ 11:15	B3 13:45 ~ 16:45	P3 09:30 ~ 11:30	
13.3 Insulator technology					B9 10:15 ~ 11:45	B9 13:15 ~ 17:45	P4 09:30 ~ 11:30	
13.4 Si wafer processing /Si based thin film /MEMS/Integration technology				P5 13:30 ~ 15:30	B10 09:00 ~ 12:15	B10 13:45 ~ 18:30	B10 09:00 ~ 12:15	B10 13:45 ~ 17:00
13.5 Semiconductor devices and related technologies		B13 13:45 ~ 17:00	B13 09:00 ~ 12:15	P6 13:30 ~ 15:30				
13.6 Semiconductor English Session			B7 10:30 ~ 11:30	P7 13:30 ~ 15:30				
13.7 Nano structures and quantum phenomena				P20 16:00 ~ 18:00		A26 15:45 ~ 17:45	A26 10:00 ~ 11:45	
13.8 Compound and power electron devices and process technology			P6 09:30 ~ 11:30		B1 09:00 ~ 12:30		B1 09:00 ~ 12:30	B1 13:30 ~ 17:00
			B1 11:45 ~ 12:15					
13.9 Optical properties and light-emitting devices	A35 09:00 ~ 11:45	A35 13:15 ~ 17:15	A35 09:00 ~ 11:45	A35 13:15 ~ 16:30		P10 13:30 ~ 15:30		
			A34 09:45 ~ 11:30	A34 13:00 ~ 15:30	A34 09:30 ~ 11:30	A34 13:00 ~ 18:00		
13.10 Compound solar cells				P21 16:00 ~ 18:00				
15 Crystal Engineering								
15.1 Bulk crystal growth				A25 13:15 ~ 19:00	P10 09:30 ~ 11:30			
15.2 II-VI and related compounds		D61 13:15 ~ 15:30		P8 13:30 ~ 15:30				
15.3 III-V-group epitaxial crystals, Fundamentals of epitaxy					P11 09:30 ~ 11:30		B9 09:00 ~ 13:00	
	A21 09:00 ~ 11:45	A21 13:15 ~ 18:00	A21 08:45 ~ 12:00		A21 09:00 ~ 12:00		A21 09:00 ~ 12:15	A21 13:15 ~ 15:30
15.4 III-V-group nitride crystals							P5 09:30 ~ 11:30	
15.5 Group IV crystals and alloys						P11 13:30 ~ 15:30	D61 09:00 ~ 11:45	D61 13:15 ~ 16:30
15.6 Group IV Compound Semiconductors (SiC)				P9 13:30 ~ 15:30	C302 09:00 ~ 12:15	C302 13:45 ~ 19:00	C302 09:00 ~ 12:15	C302 13:45 ~ 16:15
15.7 Fundamentals of epitaxy								
15.8 Crystal evaluation, impurities and crystal defects					A23 09:00 ~ 11:45	A23 13:15 ~ 18:45	P6 09:30 ~ 11:30	
16 Amorphous and Microcrystalline Materials								
16.1 Fundamental properties, evaluation, process and devices in disordered materials						P12 13:30 ~ 15:30	A25 09:00 ~ 13:15	
16.2 Energy Harvesting								
16.3 Bulk, thin-film and other silicon-based solar cells			A24 09:00 ~ 11:30		A24 09:00 ~ 11:45	P13 13:30 ~ 15:30	A24 09:00 ~ 12:15	A24 13:15 ~ 16:15
17 Nanocarbon Technology								
17.1 Carbon nanotubes & other nanocarbon materials		P5 13:30 ~ 15:30			A25 09:30 ~ 11:45	A25 13:15 ~ 17:45		
17.2 Graphene	A32 09:30 ~ 11:45				A33 09:00 ~ 11:45	A33 13:15 ~ 18:15	A33 09:00 ~ 11:15	
17.3 Layered materials							A32 09:00 ~ 11:45	
21 Joint Session K "Wide bandgap oxide semiconductor materials and devices"								
21.1 Joint Session K "Wide bandgap oxide semiconductor materials and devices"				P10 13:30 ~ 15:30	A22 09:00 ~ 12:00	A22 13:30 ~ 18:00	A22 09:00 ~ 11:45	A22 12:45 ~ 14:15
22 Joint Session M "Phonon Engineering"								
22.1 Joint Session M "Phonon Engineering"			B12 09:00 ~ 12:00	B12 13:30 ~ 18:15	B12 09:30 ~ 12:15	P18 16:00 ~ 18:00		
Code-sharing session								
3.5 Laser system and materials and 3.14 Optical control devices and optical fibers			B3 09:30 ~ 12:15					
3.6 Ultrashort-pulse and high-intensity lasers and 3.8 Optical measurement, instrumentation, and sensor					C301 10:30 ~ 12:15	C32 13:45 ~ 18:00		
3.14 Optical control devices and optical fibers and 3.15 Silicon photonics						B8 13:30 ~ 17:30		
9.4 Thermoelectric conversion and 16.2 Energy Harvesting			A25 09:30 ~ 11:30	P22 16:00 ~ 18:00				
3.11 Photonic structures and phenomena and 13.7 Nano structures and quantum phenomena					B4 09:00 ~ 12:15	B4 13:45 ~ 15:45		
10 "Emerging control-methods of magnetization and related phenomena"							C41 09:30 ~ 12:00	