

**MONDAY, January 14, 2019**

2:30 PM to 5:00 PM	TU	Tutorial: Foundational Methods for Understanding Magnetic Materials	Salon 2
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**TUESDAY, January 15, 2019**

8:30 AM to 11:30 AM	AA	<b>Symposium: Spin-transport in Insulators: From Transport in Ferromagnets to Unconventional Magnonics in Antiferromagnets</b>	Salon 2
	AB	Spin and Valley Hall Effect in 2D and Topological Systems	Salon 3
	AC	Chiral Spintronics, DMI and Domain Walls	Salon 1
	AD	Exchange Bias	Maryland
	AE	Magneto-caloric Materials I	Virginia
	AF	Soft Magnetic Materials I: Ferrites, Garnets and Others	Delaware
	AG	Magnetoresistive Effects for Sensor Applications	Washington 1
	AH	Correlated Nanoparticles and Nanowires	Washington 2
	AI	Energy Assisted Magnetic Recording I	Washington 5
9:30 AM to 12:30 PM	AJ	Spin Hall Effect, Spin Injection and Related Effects	Exhibit Hall A
	AK	Spin Transfer Torque MRAM I	
	AL	Soft Magnetic Components: Electrical Machinery Applications	
	AM	Neuromorphic, Logic, and Spin Injection Devices	
	AN	Multiferroics and Complex Oxides I	
	AO	Motors: Modeling and Simulations I	
	AP	Rock Magnetism, Magnetic Fluids and Imaging	
	AQ	High Frequency and Magnetoelastic Effects for Sensor Design I	
	AR	Multi-layered Films and Superlattices I	
AS	Rare-earth Intermetallics and Compounds I		
1:30 PM to 4:30 PM	BA	<b>Symposium: Magnetic Nanoparticles and Nanograins for Biosensing and Magnetic Recording</b>	Salon 2
	BB	Spin Currents & Spin-orbit Torques: From Intrinsic to Interfacial	Salon 3
	BC	Skyrmions I	Salon 1
	BD	Domain Wall and Related Devices	Maryland
	BE	Magnetic Semiconductors and Magnetism in Heusler Compounds	Virginia
	BF	Critical Phenomena, Quantum Spin Liquids, f-electron Magnetism and Molecular Magnets	Delaware
	BG	Motors: Design and Analysis I	Washington 1
	BH	Patterned Films	Washington 2
	BI	Rare-earth Intermetallics and Compounds II	Washington 5
2:30 PM to 5:30 PM	BJ	Magnetic Fields and Cellular Response	Exhibit Hall A
	BK	Motors in Automotive Applications	
	BL	Motors in Wind and Wave Applications	
	BM	Soft Magnetic Components: Wireless Power	
	BN	Multiferroics and Complex Oxides II	
	BO	Topological Spin Textures I	
	BP	Magneto-caloric, Magneto-elastic and Magneto-optical Materials	
	BQ	Soft Magnetic Materials II: Ferrites and Garnets	
	BR	Hard Magnetic Materials: Ferrites and Composites	
BS	Voltage-Controlled Magnetic Anisotropy and Switching I		

**WEDNESDAY, January 16, 2019**

8:30 AM to 11:30 AM	CA	<b>Symposium: Switching Antiferromagnets by Spin-orbit Torques</b>	Salon 2
	CB	Spin-Charge Conversion and Materials	Salon 3
	CC	Novel Applications of MRAM: Neuromorphic Computing and Cryogenic Memory	Salon 1
	CD	Multiferroics and Magnetoelectric Phenomena I	Maryland
	CE	Magneto-caloric and Magneto-elastic Materials	Virginia
	CF	Magnetization Dynamics I	Delaware
	CG	Soft Magnetic Materials III: Amorphous and Nanocrystalline Materials	Washington 1
	CH	Motors: Design and Analysis II	Washington 2
	CI	Rare-earth Intermetallics and Compounds III	Washington 5

WEDNESDAY, January 16, 2019			
9:30 AM to 12:30 PM	CJ	Motors: Modeling and Simulations II	Exhibit Hall A
	CK	Motors: Modeling and Simulations III	
	CL	Soft Magnetic Components: Energy Harvesting and Acoustics	
	CM	High Frequency and Magnetoelastic Effects for Sensor Design II	
	CN	Critical Phenomena, f-electron Magnetism and Organic Magnets	
	CO	Biomaterials and Transcranial Stimulation	
	CP	2D Materials and Magnetic Semiconductors	
	CQ	Bit Patterned Media & Perpendicular Magnetic Recording	
	CR	Spinwaves	
	CS	Magnetic Sensors and Devices	
1:30 PM to 3:18 PM	DA	Voltage-Controlled Magnetic Anisotropy and Switching II	Salon 2
	DB	Ultrafast Dynamics	Salon 3
	DC	Thermal Spin Physics and Magnetothermoelectric Effects	Salon 1
	DD	New Coupled Magnetic Phenomena	Maryland
	DE	Complex Oxides	Virginia
	DF	Highly Frustrated Magnetism and Spin Glasses I	Delaware
	DG	Individual Nanoparticles and Nanowires	Washington 1
	DH	Energy-Assisted Magnetic Recording and Bit Patterned Media	Washington 2
	DI	Metrology and Spintronic Devices	Washington 5
1:30 PM to 4:30 PM	DJ	Spin Currents and Spin-orbit Torques	Exhibit Hall A
	DK	Magneto-caloric Materials II	
	DL	Soft Magnetic Components: Transformers and Inductors I	
	DM	Hard Magnetic Materials Theory and Application I	
	DN	Magnetic Particles and Hyperthermia	
	DO	Motors: Modeling and Simulations IV	
	DP	Motors: Modeling and Simulations V	
	DQ	Magnetic Instrumentation and Characterization I	
DR	Soft Magnetic Materials IV: Crystalline, Nanocrystalline and Amorphous Materials		
4:30 PM to 6:30 PM	YA	Plenary	Salons 2 & 3

THURSDAY, January 17, 2019			
8:30 AM to 11:30 AM	EA	<b>Symposium: 3D Magnetic Frustration: Pyrochlore, Spinel and FCC Lattices</b>	Salon 2
	EB	<b>Symposium: Magnetism for the Brain: Challenges and Solutions</b>	Salon 3
	EC	Skymions II	Salon 1
	ED	Spinwaves and Magnonics	Maryland
	EE	Multiferroics and Magnetoelectric Phenomena II	Virginia
	EF	Magnetization Dynamics II	Delaware
	EG	Magnetic Imaging and Measurement Techniques I	Washington 1
	EH	Thin Films and Surface Effects I	Washington 2
	EI	New and Nanostructured Permanent Magnets I	Washington 5
9:30 AM to 12:30 PM	EJ	Nanoparticles and Nanowires	Exhibit Hall A
	EK	Energy Assisted Magnetic Recording II	
	EL	Magnetism in Heusler Alloys	
	EM	Magneto-caloric Materials III	
	EN	Soft Magnetic Components: Transformers and Inductors II	
	EO	Actuation	
	EP	Soft Magnetic Materials V: Amorphous and Nanocrystalline Materials	
	EQ	Motors: Control and Drives	
ER	Actuation, Shielding and Levitation		
1:30 PM to 4:30 PM	FA	<b>Symposium: Voltage Control of Nanomagnetism</b>	Salon 2
	FB	Spin-orbit Torque Switching	Salon 3
	FC	Topological Spin Textures II	Salon 1
	FD	Magnetic Field Sensors and Applications at High Frequencies	Maryland
	FE	Magneto-caloric and Magneto-optical Materials	Virginia
	FF	Spin Transfer Torque MRAM II	Delaware
	FG	Micromagnetic and Hysteresis Modeling I	Washington 1
	FH	Soft Magnetic Components: Performance, Modeling and Optimization	Washington 2
	FI	Magnetic Nanoparticles for Biomedical Applications and Imaging	Washington 5

THURSDAY, January 17, 2019			
2:30 PM to 5:30 PM	FJ	New and Nanostructured Permanent Magnets II	Exhibit Hall A
	FK	Thin Films and Surface Effects II	
	FL	Magnetization Dynamics III	
	FM	Spin Caloritronics and Spin Mechatronics	
	FN	Magnetic Instrumentation and Characterization II	
	FO	Tunneling Magnetoresistance, Giant Magnetoresistance, Hall Effect and Related Effects	
	FP	Highly Frustrated Magnetism and Spin Glasses II	
	FQ	Motors: Modeling and Simulations VI	
	FR	Motors: Modeling and Simulations VII	
6:00 PM to 7:30 PM	XA	Evening Session: Forefront Issues and New Opportunities in Magnetic Materials	Salon 2

FRIDAY, January 18, 2019			
8:30 AM to 11:30 AM	GA	<b>Symposium: Energy Harvesting and Transformations based on Magnetic Materials</b>	Salon 2
	GB	Antiferromagnetic Spintronics	Salon 3
	GC	Tunneling Magnetoresistance and Tunneling Anisotropic Magnetoresistance	Salon 1
	GD	Spin-orbit Torque and Spin Injection Devices	Maryland
	GE	Motors Applications, Actuators, Shielding and Levitation	Virginia
	GF	Magnetic Fluids, Composites and Biomedical Devices	Delaware
	GG	Magnetic Imaging and Measurement Techniques II	Washington 1
	GH	Multi-layered Films and Superlattices II	Washington 2
	GI	Hard Magnetic Materials Theory and Application II	Washington 5
9:30 AM to 12:30 PM	GJ	Magnetic Field Sensors and Applications	Exhibit Hall A
	GK	Exchange Bias and Nanomagnetism	
	GL	Soft Magnetic Components: Other Applications	
	GM	Magneto-elastic Materials	
	GN	Domain Wall Dynamics and Devices	
	GO	Motors: Modeling and Simulations IX	
	GP	Motors: Modeling and Simulations VIII	
	GQ	Skyrmions III	
GR	Multiferroics and Complex Oxides III		
	GS	Micromagnetic and Hysteresis Modeling II	
1:30 PM to 4:30 PM	HA	<b>Symposium: Magnetism Research Using X-ray Free Electron Lasers</b>	Salon 2
	HB	Spin Transport & Relaxation in Nanoscale Materials and Devices	Salon 3
	HC	Skyrmions IV	Salon 1
	HD	Spin Torque Oscillators and Spin Waves	Maryland
	HE	Spinwaves and Spin Dynamics	Virginia
	HF	Novel Sensor Architectures and Applications	Delaware
	HG	Topological Insulators and Magnetism in 2D Materials	Washington 1
	HH	Magnetoresistance, Hall Effect and Related Effects	Washington 2
	HI	Motor Applications	Washington 5