

2017 MMM Conference Program At-A-Glance

as of 8/3/2017

Time	Session	Title	Location
Monday November 6			
2:30 PM - 5:00 PM	XA	Tutorial: Terahertz Magnetism	Spirit of Pittsburgh Ballroom B
Tuesday November 7			
8:30 AM - 11:30 AM	AA	Symposium: Terahertz Magnonics	Spirit of Pittsburgh Ballroom B
	AB	Skyrmions in Bulk Materials and Single Ferromagnetic Layers	Room 301-303
	AC	Spin Caloritronics and Thermal Spin Injection	Room 403-405
	AD	Spin Waves I	Room 408-410
	AE	MRAM, Magnetic Logic, and Related Devices	Room 315-316
	AF	Rare Earth-Based Hard Magnetic Materials I	Room 317-318
	AG	Biomagnetic Applications I	Room 304-305
	AH	Strain-Mediated Multiferroic Heterostructures	Room 401-402
	AI	Transformers and Inductors I	Room 411-412
9:30 AM - 12:30 PM	AP	Ferrites and Garnets I	Spirit of Pittsburgh Ballroom A
	AQ	Amorphous and Nanocrystalline Materials I	
	AR	Nanoparticles and Nanowires (not in arrays) I	
	AS	Structured Materials	
	AT	Domain Wall and Vortex Dynamics I	
	AU	Magnetics for Power Electronics and Control I	
	AV	Multiferroics, Correlated Systems, and Molecular Magnets	
1:30 PM - 4:30 PM	BA	Symposium: Magnetism and Magnetic Proximity Effects in 2D Materials	Spirit of Pittsburgh Ballroom B
	BB	Skyrmions in Magnetic Multilayers	Room 301-303
	BC	Spin-Orbit Torques	Room 403-405
	BD	Spin Waves II	Room 408-410
	BE	GMR and MRAM	Room 315-316
	BF	Rare Earth-Based Hard Magnetic Materials II	Room 317-318
	BG	Magnetic Fluids and Particles for Biosensing	Room 304-305
	BH	Nanoparticle and Nanowire Arrays and Self-Assembly	Room 401-402
	BI	Magnetoresistance, Magnetoimpedance, and Hall Effect	Room 411-412
2:30 PM - 5:30 PM	BP	Domains and Voltage Controlled Magnetism	Spirit of Pittsburgh Ballroom A
	BQ	Magnetic Recording I	
	BR	Ferrites and Garnets II	
	BS	Transformers and Inductors II	
	BT	Energy Harvesting, Power, Propulsion, and Levitation	
	BU	Magnetics for Power Electronics and Control II	
BV	Magnetoelectric and Multiferroic Films and Heterostructures I		
6:00 PM - 7:30 PM	YA	Secrets for Highly Effective Communications	Spirit of Pittsburgh Ballroom B
Wednesday, November 8			
8:30 AM - 11:30 AM	CA	Symposium: What Spintronics Can Bring to Microelectronics	Spirit of Pittsburgh Ballroom B
	CB	Spin Currents: Ultrafast, Detection, and Dynamics	Room 301-303
	CC	Spin Transfer Torques and Spin Hall Oscillators	Room 403-405
	CD	Spin Waves III	Room 408-410
	CE	Magnetic Recording II	Room 315-316
	CF	Hard Magnets: Thin Films and Nanostructures	Room 317-318
	CG	Spintronics with 2D Materials and Topological Insulators I	Room 304-305
	CH	Nanoparticles and Nanowires (not in arrays) II	Room 401-402
	CI	High Frequency, Microwave, and Millimeter Wave Devices	Room 411-412
9:30 AM - 12:30 PM	CP	Crystalline Soft Magnetic Materials	Spirit of Pittsburgh Ballroom A
	CQ	Magneto-Caloric Materials I	
	CR	Particles, Composites, and Manufacturing	
	CS	New Magnetic Materials	
	CT	Magnetic Fluids and Biomedical Applications	
CU	Magnetic Instrumentation and Characterization I		

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1:30 PM - 4:30 PM	DA	Symposium: Cavity Opto-Magnonics	Spirit of Pittsburgh Ballroom B
	DB	Spin Currents: Insulators and Interfaces	Room 301-303
	DC	Domains, Domain Walls, and Vortices I	Room 403-405
	DD	Magnetization Dynamics I	Room 408-410
	DE	Tunnel Magnetoresistance	Room 315-316
	DF	Rare Earth-Free Hard Magnetic Materials I	Room 317-318
	DG	Spintronics with 2D Materials and Topological Insulators II	Room 304-305
	DH	Nanoparticles, Nanowires, and 3D Structures I	Room 401-402
	DI	Magnetic Imaging and Measurement Techniques	Room 411-412
2:30 PM - 5:30 PM	DP	Magneto-Caloric Materials II	Spirit of Pittsburgh Ballroom A
	DQ	Fundamental Properties and Cooperative Phenomena	
	DR	Complex Oxides	
	DS	Magnetic Instrumentation and Characterization II	
	DT	Magnetic Sensors (non-recording) I	
	DU	Biomagnetic Applications II	
6:00 PM	ZA	Evening Session: Spintronics - Present and Future	Spirit of Pittsburgh Ballroom B
Thursday, November 9			
8:30 AM - 11:30 AM	EA	Symposium: Mutual Synchronization of Spintronic Oscillators	Spirit of Pittsburgh Ballroom B
	EB	Spin Currents: Metals and New Materials	Room 301-303
	EC	Domains, Domain Walls, and Vortices II	Room 403-405
	ED	Magnetization Dynamics II	Room 408-410
	EE	Magnetic Recording III	Room 315-316
	EF	Rare Earth-Based Hard Magnetic Materials III	Room 317-318
	EG	Electronic Structures and Spins	Room 304-305
	EH	Complex Oxide Films and Heterostructures	Room 401-402
	EI	Magneto-Optical and Magneto-Caloric Materials and Devices	Room 411-412
9:30 AM - 12:30 PM	EP	Microwave Materials and Devices	Spirit of Pittsburgh Ballroom A
	EQ	Topological Insulators, 2D Materials, and Voltage Controlled Magnetism	
	ER	Magnetic Skyrmions and Interfacial Chiral Exchange Interactions	
	ES	Magnetic Semiconductors and Magneto Elastic Materials I	
	ET	Nanoparticles, Nanowires, and 3D Structures II	
	EU	Thin Films and Surface Effects I	
1:30 PM - 4:30 PM	FA	Symposium: Spintronics-Based Neuromorphic Computing	Spirit of Pittsburgh Ballroom B
	FB	Spin-Orbit Torques and Interfacial Chiral Exchange Interactions	Room 301-303
	FC	Domain Wall and Vortex Dynamics II	Room 403-405
	FD	Magnetization Dynamics III	Room 408-410
	FE	Exchange Bias	Room 315-316
	FF	Voltage Controlled Magnetism	Room 317-318
	FG	Magnetic Transitions and Correlations	Room 304-305
	FH	Molecular Magnets and Bulk Oxides	Room 401-402
	FI	Magneto-Caloric Materials III	Room 411-412
2:30 PM - 5:30 PM	FP	Spintronics - Fundamentals and Devices	Spirit of Pittsburgh Ballroom A
	FQ	Spin and Charge Transport Effects in Metals	
	FR	Spin Transfer Torques and Spin-Orbit Effect-Related Magneto Transport	
	FS	Spin-Orbit Torques, Interfacial Chiral Exchange Interactions, and Antiferromagnetic Spintronics	
	FT	Rare Earth-Based Hard Magnetic Materials IV	
	FU	Rare Earth-Based Hard Magnetic Materials V	

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Time	Session	Title	Location
Friday, November 10			
8:30 AM - 11:30 AM	GA	Symposium: Spin-Orbit Torques with Unconventional Symmetries	Spirit of Pittsburgh Ballroom B
	GB	Ultrafast Switching	Room 301-303
	GC	Thin Films and Surface Effects II	Room 403-405
	GD	Micromagnetic Modelling I	Room 408-410
	GE	Power Electronics and Magnetic Multilayers	Room 315-316
	GF	Superconductivity and Bulk Multiferroics	Room 317-318
	GG	Spin Freezing and Frustration	Room 304-305
	GH	Soft Magnetic Materials	Room 401-402
	GI	Magnetic Semiconductors and Magneto Elastic Materials II	Room 411-412
9:30 AM - 12:30 PM	GP	Spin Waves IV	Spirit of Pittsburgh Ballroom A
	GQ	Micromagnetic Modelling II	
	GR	Magnetization Dynamics and Damping	
	GS	Half Metals, Magnetoresistance, Magnetoimpedance, and Hall Effect	
	GT	Rare Earth-Free Hard Magnetic Materials II	
	GU	Rare Earth-Based Hard Magnetic Materials VI	
	GV	Magneto-Optic and Hard Magnetic Materials	
1:30 PM - 4:30 PM	HA	Symposium: Generation and Transport of Skyrmions	Spirit of Pittsburgh Ballroom B
	HB	Antiferromagnetic Spintronics	Room 301-303
	HC	Artificial Spin Systems	Room 403-405
	HD	Half Metallic Materials	Room 408-410
	HE	Spin Hall Effect: Dynamics and Spin Waves	Room 315-316
	HF	Magnetoelectric and Multiferroic Films and Heterostructures II	Room 317-318
	HG	Microwave and New Magnetic Materials	Room 304-305
	HH	Amorphous and Nanocrystalline Materials II	Room 401-402
	HI	Magnetic Sensors (non-recording) II	Room 411-412