

2017 MMM Conference Program At-A-Glance

as of 8/29/2017

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	
	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	
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 I: MAMR and PMR Extension	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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Time	Session	Title	Location
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 II: HAMR, All-Optical Recording, and Others	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