

INTERMAG 2020 Conference Program
as of February 12, 2020

MONDAY, May 4, 2020			
2:30 PM to 5:00 PM	TU	Tutorial on Magnetism and the Environment	517 A
TUESDAY, May 5, 2020			
8:30 AM to 11:30 AM	AA	Spintronics-Based Neuromorphic Computing	520 BC
	AB	Domains and Domain Wall Devices	520 DE
	AC	Multiferroics and Magnetoelectric Phenomena	518 BC
	AD	Permanent Magnet Design and Control for Motors	519 A
	AF	Magneto-Caloric Materials and Devices I	520 A
	AG	Recording Media, Interfaces, Channels, and All-Optical Recording	520 F
	AH	Interdisciplinary Magnetism I	518 A
9:00 AM to 12:00 PM	AP	Biomagnetism I	517 CD
	AQ	Magnetization Dynamics and Domain Walls	
	AR	Structured Materials: Thin Films and Surface Effects I	
	AS	Fundamental Properties and Cooperative Magnetism	
	AT	Hard Magnetic Materials Design I	
	AU	Control, Modeling, and Enabling Materials for Soft Magnetic Components	
	AV	Special Rotating Electrical Machines I	
	AW	Electric Machine Controls, Drives and Characterization	
1:30 PM to 4:30 PM	BA	Bench to Bedside Transition of Biomagnetic Research: How Close Are We?	520 BC
	BB	Topological Materials Spintronics	520 DE
	BC	Magnetoresistance in Heterostructures	518 BC
	BD	Linear Motor, Short and Long Stroke Actuators and Applications I	519 A
	BE	Magnetization Dynamics and Ultrafast Processes	519 B
	BF	Structured Materials: Thin Films and Surface Effects II	520 A
	BG	Heat Assisted Magnetic Recording	520 F
	BH	Transformers, Inductors, Magnetic Levitation I	518 A
2:00 PM to 5:00 PM	BP	Magnetic Textures and Spin-Orbitronics	517 CD
	BQ	Magnonics and Spin Waves	
	BR	Magneto-Elastic Materials and Devices I	
	BS	Amorphous, Nanocrystalline, and Nanoparticle Soft Magnets	
	BT	Crystalline Alloy and Garnet Soft Magnets	
	BU	Special Rotating Electrical Machines II	
	BV	Special Rotating Electrical Machines III	
	BW	Permanent Magnet Design	
6:00 PM to 8:00 PM	XA	Evening Session on the Future of Helium	517 A

WEDNESDAY, May 6, 2020			
8:30 AM to 11:30 AM	CA	Thermal Effects in Antiferromagnetic Spintronics: from Actual Thermoelectric Effects to Thermally-Induced Magnetoelastic Artifacts	520 BC
	CB	Spin Orbit Torque	520 DE
	CC	Magnetism in Complex Oxides and Heusler Materials Systems	518 BC
	CD	Permanent Magnet Machines I	519 A
	CE	Magnons, Magnonic Lattices and Crystals	519 B
	CF	Amorphous and Nanocrystalline Soft Magnets	520 A
	CG	Magnetic Microscopy and Imaging	520 F
	CH	Fundamental Magnetism	518 A
9:00 AM to 12:00 PM	CP	Biomedical Diagnostics and Therapy I	517 CD
	CQ	Structured Materials: Nanoparticles and Nanostructures	
	CR	Magnetic Field Sensors (Non-Recording) I	
	CS	Magnetic Recording	
	CT	Design and Characterization of Electrical Machines	
	CU	Advances in (Semi)-Analytical Techniques for Design	
	CV	Advances in (Semi)-Analytical and Numerical Techniques for Design I	
CW	Transformers, Inductors, Magnetic Levitation II		
1:30 PM to 4:30 PM	DA	Soft Magnetic Materials and Components for Emerging Power Conversion	520 BC
	DB	Spins in Graphene and 2D Materials	520 DE
	DD	Generators, Electrical Energy Storage and Energy Harvesting I	519 A
	DE	Magnetization Dynamics in MTJ and STO devices	519 B
	DF	Structured Materials: Exchange Bias and Heterostructures	520 A
	DG	High-Frequency Devices and Applications I	520 F
	DH	Cooperative Magnetism	518 A
4:00 PM to 5:30 PM	YA	Plenary: Antiferromagnetism: Celebrating 50 years since the Nobel Prize	517 A

THURSDAY, May 7, 2020			
8:30 AM to 11:30 AM	EA	Magnetic Nanoparticles for Biomedical Diagnostics and Imaging: Recent Advances and Perspectives	520 BC
	EB	Skyrmions and Spin-Orbitronics I	520 DE
	EC	Voltage Control of Magnetism	518 BC
	ED	Special Machines Design and Analysis	519 A
	EE	Magnons and Spin Waves	519 B
	EF	Magneto-Elastic Materials and Devices II	520 A
	EG	Instrumentation and Measurement Techniques	520 F
	EH	Fundamental Properties and Cooperative Phenomena	518 A

THURSDAY, May 7, 2020 <i>continued</i>			
9:00 AM to 12:00 PM	EP	Antiferromagnetic Spintronics I	517 CD
	EQ	Micromagnetics, Computational Methods, Reversal and Hysteresis Modeling	
	ER	Interdisciplinary Magnetism II	
	ES	Hard Magnetic Materials Design II	
	ET	Electric Machines, Drives and Applications I	
	EU	Permanent Magnet Machines II	
	EV	Permanent Magnet Machines III	
	EW	Linear Motor, Short and Long Stroke Actuators and Applications II	
1:30 PM to 4:30 PM	FA	Electrical Machines and Drives 2020 and Beyond	520 BC
	FB	Spin Current and Spin Hall effect	520 DE
	FC	MTJ Based Neuromorphic and Logic Devices	518 BC
	FE	Micromagnetics, Spin Wave, and Magnetization Dynamics Modeling	519 B
	FF	Structured Materials: Nanoparticles and Nanostructured Materials	520 A
	FG	Rare-Earth and Other Hard Magnetic Materials	520 F
	FH	Magnetic Field Sensors (Non-Recording) II	518 A
	2:00 PM to 6:00 PM	FP	Advanced Spintronic Materials and Devices
FQ		2D / Topological Materials and Spin Orbit Torque	
FR		Magneto-Caloric Materials and Devices II	
FS		Microscopy, Imaging, and Characterization	
FT		Transformers, Inductors, Magnetic Levitation III	
FU		Electric Machines, Drives and Applications II	
FV		Design and System Control for Permanent Magnet Rotating Machines I	
FW		Design and System Control for Permanent Magnet Rotating Machines II	
FRIDAY, May 8, 2020			
8:30 AM to 11:30 AM	GA	Three-Dimensional Magnetism in Curved Geometries	520 BC
	GB	Skyrmions and Spin-Orbitronics II	520 DE
	GC	STT-MRAM and Related Devices	518 BC
	GD	Power Electronics, Drives and Controls	519 A
	GE	Magnetization Dynamics and Damping	519 B
	GF	Biomedical Diagnostics and Therapy II	520 A
	GG	Rare-Earth-Free Hard Magnetic Materials	520 F
	GH	Design, Modeling, and Enabling Materials for Magnetic Components	518 A

FRIDAY, May 8, 2020 <i>continued</i>			
9:00 AM to 12:00 PM	GP	Multiferroics and Voltage Controlled Phenomena	517 CD
	GQ	High-Frequency Devices and Applications II	
	GR	Novel Magnetic Properties and Systems	
	GS	Design and System Control for Permanent Magnet Rotating Machines III	
	GT	Design and System Control for Permanent Magnet Rotating Machines IV	
	GU	Permanent Magnet Machines IV	
	GV	Permanent Magnet Machines V	
	GW	Permanent Magnet Machines VI	
1:30 PM to 4:30 PM	HA	Novel Approaches to the Excitation and Control of Nano-Scale Propagating Spin Waves	520 BC
	HB	Antiferromagnetic Spintronics II	520 DE
	HC	Magneto-Resistance Effects in Novel Material Systems	518 BC
	HE	Magnetization Dynamics	519 B
	HF	Biomagnetism II	520 A
	HG	Rare-Earth Based Permanent Magnets	520 F
	HH	Advances in (Semi)-Analytical and Numerical Techniques for Design II	518 A