

PROGRAM AT A GLANCE

6th International Conference on Asian Union of Magnetics Societies 2023 (IcAUMS 2023)
Prama Sanur Beach Hotel, Bali, 14 – 16 August 2023

August 13, 2023	
TIME	AGENDA
	Prama Sanur Beach Bali Hotel
16:00 – 18:00	Registration (Lobby Wantilan Ballroom) + Welcome Drink (Tirta restaurant and Pool Bar)

1 st Day: August 14, 2023													
TIME	AGENDA												
07:00 – 08:00	Registration Desk (Wantilan Convention Center)												
	Room 1 (Hall Room) – OPENING												
08:00 – 08:10	M.C. : Opening Ceremony												
08:10 – 08:30	A. Agung Nugroho (Chairman, President of IMS)	Greetings from Indonesia											
	Shaoxiong Zhou (President of AUMS)	Greetings from AUMS											
	Room 1 (Hall Room) – Keynote Speaker Moderator: Darminto (Institut Teknologi Sepuluh Nopember, Indonesia)												
08.30 - 09:15	SP1-1001 : Chih-Huang Lai (National Tsing Hua University, Taiwan)												
	Room 1 (Hall Room) – Invited Speakers												
09.15 – 09:45	SP1-2101 : Gyung-Min Choi (Sungkyunkwan University, Korea)												
09:45 – 10:15	HMM1-2104 : Hossein Sepehri Amin (National Institute for Materials Science, Japan)												
10:15 – 10:45	Coffee Break												
	Room 1 (Hall Room) – Keynote Speakers Moderator: Nandang Mufti (Universitas Negeri Malang, Indonesia)												
10:45 – 11:30	SP1-1002 : Koki Takanashi (Advanced Science Research Center, Japan Atomic Energy Agency, Japan)												
	Room 1 (Hall Room) – Invited Speakers												
11.30 – 12:00	SP1-2102 : Kyoung-Whan Kim (Center for Spintronics, Korea Institute of Science and Technology, Korea)												
12:00 – 12:30	MA1-2105 : Hiroaki Sukegawa (National Institute for Materials Science, Japan)												
12:30 – 14:00	Group Photo: The 6th IcAUMS 2023 + Lunch												
	Parallel Session												
	<table border="1"> <thead> <tr> <th>Room 1-A</th> <th>Room 1-B</th> <th>Room 1-C</th> </tr> </thead> <tbody> <tr> <td>Moderator: Budi Purnama (Universitas Sebelas Maret, Indonesia)</td> <td>Moderator: Utami Widayawati (Universitas Padjadjaran, Indonesia)</td> <td>Moderator: Abdul Muizz Tri Pradipto (Institut Teknologi Bandung, Indonesia)</td> </tr> <tr> <td>Invited Speaker: SP1-2008: Le Duc Anh (The University of Tokyo, Japan)</td> <td>Invited Speaker: MC1-2006: Masaki Mizuguchi (Nagoya University, Japan)</td> <td>Invited Speaker: MA1-2001: Jeong-Yun Sun (Seoul National University, Korea)</td> </tr> <tr> <td>AUMS Talk: SP2-1035: Young Keun Kim (Korea University, Korea)</td> <td>Invited Speaker: NM1-2009: Ahmad Taufiq (The State University of Malang, Indonesia)</td> <td>Invited Speaker: MA1-2002: Shin Yabukami (Tohoku University, Japan)</td> </tr> </tbody> </table>	Room 1-A	Room 1-B	Room 1-C	Moderator: Budi Purnama (Universitas Sebelas Maret, Indonesia)	Moderator: Utami Widayawati (Universitas Padjadjaran, Indonesia)	Moderator: Abdul Muizz Tri Pradipto (Institut Teknologi Bandung, Indonesia)	Invited Speaker: SP1-2008 : Le Duc Anh (The University of Tokyo, Japan)	Invited Speaker: MC1-2006 : Masaki Mizuguchi (Nagoya University, Japan)	Invited Speaker: MA1-2001 : Jeong-Yun Sun (Seoul National University, Korea)	AUMS Talk: SP2-1035 : Young Keun Kim (Korea University, Korea)	Invited Speaker: NM1-2009 : Ahmad Taufiq (The State University of Malang, Indonesia)	Invited Speaker: MA1-2002 : Shin Yabukami (Tohoku University, Japan)
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15:00 – 15:20	SP2-1028 : Dahai Wei (Institute of Semiconductors, Chinese Academy of Sciences, China)	NM2-1013 : Adhistinka Jiananda (Universitas Gadjah Mada, Indonesia)	MA2-1004 : Nurfina Yudasari (National Research and Innovation Agency, Indonesia)
15:20 – 15:40	SP2-1029 : Candra Kurniawan (National Research and Innovation Agency (BRIN), Indonesia)	NM2-1014 : Deska Lismawenning Puspitarum (Universitas Gadjah Mada, Indonesia)	MA2-1005 : Lucky Darmawan (Universitas Indonesia, Indonesia)
15:40 – 16:10	Coffee Break		
	Parallel Session		
	Room 1-A Moderator: Retno Asih (Institut Teknologi Sepuluh Nopember, Indonesia)	Room 1-B Moderator: Adam Badra Cahaya (Universitas Indonesia, Indonesia)	Room 1-C Moderator: Dede Djuhana (University of Indonesia, Indonesia)
16:10 – 16:30	SP2-1030 : Aleksei Gavriilovich Kozlov (Far Eastern Federal University, Russian Federation)	NM2-1015 : Dwi Teguh Rahardjo (Universitas Sebelas Maret, Indonesia)	MA2-1009 : Simon Greaves (RIEC, Tohoku University, Japan)
16:30 – 16:50	SP2-1031 : Jing Ci Su (National Taiwan University, Taiwan)	NM2-1016 : Hafil Perdana Kusumah (Universitas Gadjah Mada, Indonesia)	MA2-1007 : Sunghae Cho (University of Ulsan, Korea)
16:50 – 17:10	SP2-1032 : Ivan Kurniawan (National Institute for Materials Science, Japan)	NM2-1017 : Emi Kurnia Sari (Universitas Gadjah Mada, Indonesia)	MA2-1008 : Ngoc Xuan Dat Mai (Center for Innovative Materials and Architectures (INOMAR), VNU-HCM, Vietnam)
17:10 – 17:30	SP2-1033 : Ji-Sung Yu (Seoul National University, Korea)	NM2-1018 : Kirana Yuniati Putri (National Research and Innovation Agency, Indonesia)	ME2-1010 : Do Thi Huong Giang (Vietnam National University, Vietnam)
18:00 – 21.00	Banquet Dinner (at Bima Stage)		

2nd Day: August 15, 2023			
TIME	AGENDA		
	Room 1 (Hall Room) – Keynote Speaker Moderator: Azwar Manaf (Universitas Indonesia, Indonesia)		
09.00 – 09:45	SP1-1003 : Jianhu a Zhao (Institute of Semiconductors, Chinese Academy of Sciences, China)		
	Room 1 (Hall Room) – Invited Speakers		
09.45 – 10:15	SP1-2103 : Yuewei Yin (University of Science and Technology of China, China)		
10:15 – 10:45	MA1-2106 : Chao-Yao Yang (National Yang Ming Chiao Tung University, Taiwan)		
10:45 – 11:15	Coffee Break		
	Room 1 (Hall Room)		
11:15 – 12:45	Short Poster Presentation		
12:45 – 14:00	Lunch		
	Parallel Session		
	Room 1-A Moderator: Retno Asih (Institut Teknologi Sepuluh Nopember, Indonesia)	Room 1-B Moderator: Risdiana (Universitas Padjadjaran, Indonesia)	Room 1-C Moderator: Lusi Safriani (Universitas Padjadjaran, Indonesia)
14:00 – 14:30	AUMS Talk: SP2-1034 : Hideto Yanagihara (University of Tsukuba, Japan)	AUMS Talk: ME1-2005 : Nikolai Perov (Lomonosov Moscow State University, Russia)	Invited Speaker: MA1-2003 : Yiming Huai (Avalanche Technology, USA)

14:30 – 15:00	AUMS Talk: SP2-1027 : Jung-Chung Andrew Huang (National Cheng Kung University, Taiwan)	AUMS Talk: MA2-1006 : Hiroaki Kikuchi (Iwate University, Japan)	Invited Speaker: MA1-2004 : Suko Bagus Trisnanto (Yokohama National University, Japan)
15:00 – 15:20	SP2-1036 : Na Lei (Beihang University, China)	ME2-1011 : Yike Zhang (Tsinghua University, China)	SMM2-1024 : Lidia Shendrikova (M. V. Lomonosov Moscow State University, Russia)
15:20 – 15:40	SP2-1037 : Shih-Hung Cheng (National Taiwan University, Taiwan)	HMM2-1002 : Jisang Hong (Pukyong National University, Korea)	SMM2-1025 : Chih-Hao Lee (National Tsing Hua University, Taiwan)
15:40 – 16:00	SP2-1038 : Rie Umetsu (Tohoku University, Japan)	HMM2-1003 : Shigenori Utsumi (Suwa University of Science, Japan)	SMM2-1026 : Achmad Ainul Yaqin (Universitas Indonesia, Indonesia)
16:00 – 16:30	Coffee Break		
	Parallel Session		
	Room 1-A Moderator: Ahmad Taufiq (Universitas Negeri Malang, Indonesia)	Room 1-B Moderator: Malik Anjelh Baqiya (Institut Teknologi Sepuluh Nopember, Indonesia)	Room 1-C Moderator: Fahmi Astuti (Institut Teknologi Sepuluh Nopember, Indonesia)
16:30 – 16:50	Invited Speaker: SP1-2007 : Jongill Hong (Yonsei University, Korea)	NM2-1019 : Jyh-Shen Tsay (National Taiwan Normal University, Taiwan)	TH2-1040 : Norio Inui (University of Hyogo, Japan)
16:50 – 17:10	SP2-1039 : Aleksei Gavriilovich Kozlov (Far Eastern Federal University, Russian Federation)	NM2-1020 : Larrisa Jestha Mahardhika (Universitas Gadjah Mada, Indonesia)	TH2-1041 : Adam Badra Cahaya (Universitas Indonesia, Indonesia)
17:10 – 17:30	BM2-1001 : Seiji Idachi (Nagoya University, Japan)	NM2-1021 : Tsu-Yi Fu (National Taiwan Normal University, Taiwan)	TH2-1042 : Abdul Muizz Tri Pradipto (Institut Teknologi Bandung, Indonesia)
17:30 – 17:50	MG2-1012 : Putri Dwi Jayanti (Universitas Gadjah Mada, Indonesia)	NM2-1022 : Sudarmono (Universitas Gadjah Mada, Indonesia)	TH2-1043 : Tasrief Surungan (Hasanuddin University, Indonesia)

3rd Day: August 16, 2023	
TIME	AGENDA
	Room 1 (Hall Room) – Keynote Speaker Moderator: Edi Suharyadi (Gadjah Mada University, Indonesia)
09.00 – 09:45	MA1-1000 : CheolGi Kim (Daegu Gyeongbuk Institute of Science and Technology, Korea)
	Room 1 (Hall Room) – Invited Speakers
09.45 – 10:15	SMM1-2107 : Huei-Ru Fuh (Yuan Ze University, Taiwan)
10:15 – 12:30	Coffee Break + Poster Session
	Room 1 (Poster Room)
12:30 – 13:00	Award and Closing
	Room 1 (Hall Room)
13:00 – 14:00	Lunch + Preparation for Culture Program

NOTE:
SMM; Soft Magnetic Materials; HMM: Hard Magnetic Materials; ME: Magnetolectric; MG: Magnonics; SP: Spintronics; BM: Biomagnetic; TH: Theory; NM: Nano-magnetic; MA: Magnetic Applications; MC: Magnetocaloric

List of Abstract Title for Keynote, Invited, dan Oral Speakers

Keynote Speakers

No.	Name	Institution/University	Abstract Title	Code
1	CheolGi Kim	Daegu Gyeongbuk Institute of Science and Technology, Korea	Magnetic MEMS Devices for Biomedical Advancement and Beyond	MA1-1000
2	Chih-Huang Lai	College of Engineering, National Tsing Hua University, Taiwan	A Spin-orbit Torque Switch in Ferromagnet/Antiferromagnet System	SP1-1001
3	Koki Takanashi	Advanced Science Research Center, Japan Atomic Energy Agency, Japan	Metallic Superlattices Revisited for Spintronics	SP1-1002
4	Jianhua Zhao	Institute of Semiconductors, Chinese Academy of Sciences, China	High-Quality Semiconductor Spintronic Materials and Devices	SP1-1003

Invited Speakers

No.	Name	Institution/University	Abstract Title	Code
1	Gyung-Min Choi	Sungkyunkwan University, Korea	Optical Detection of Orbital, Spin, and Spin Wave	SP1-2101
2	Kyoung-Whan Kim	Center for Spintronics, Korea Institute of Science and Technology, Korea	Orbital Angular Momentum Dynamics in Centrosymmetric Solids	SP1-2102
3	Yue-Wei Yin	University of Science and Technology of China, China	Magnetoelectric Coupling in Multiferroic Tunnel Junctions for Spintronic Prototype Devices	SP1-2103
4	Hossein Sepehri Amin	National Institute for Materials Science, Research Center for Magnetic and Spintronic Materials, Japan	Development of High-Performance Permanent Magnets without Reliance on Scarce Elements	HMM1-2104
5	Hiroaki Sukegawa	National Institute for Materials Science (NIMS), Japan	Development of Spinel Barriers for High Performance Magnetic Tunnel Junctions	MA1-2105

No.	Name	Institution/University	Abstract Title	Code
6	Chao-Yao Yang	National Yang Ming Chiao Tung University, Taiwan	Exploring an Interfacial Dynamics of Antiferromagnet/Ferromagnet Bilayer Toward a Spin-Orbit Torque Ratchet	MA1-2106
7	Huei-Ru Fuh	Yuan Ze University, Taiwan	Novel Properties of Low-Dimensional Magnetic Materials	SMM1-2107
8	Jeong-Yun Sun	Seoul National University, Korea	Soft Electromagnetic Actuators for Stretchable Ionic Devices	MA1-2001
9	Shin Yabukami	Tohoku University, Japan	Optimization of High Frequency Permeability of Thick Magnetic Material	MA1-2002
10	Yiming Huai	Avalanche Technology, USA	High Density and Performance STT MRAM For Aerospace Applications	MA1-2003
11	Suko Bagus Trisnanto	Yokohama National University, Japan	Inverse Problem-Based Signal-Source Separation of Magnetoresistive Sensor Array for Low-Field Magnetic Particle Imaging	MA1-2004
12	Masaki Mizuguchi	Nagoya University, Japan	Spin Caloritronics in Magnetic Nano-structures	MC1-2006
13	Jongill Hong	Yonsei University, Korea	Established at the Pseudomorphic Interface of the Co/Pd Superlattice	SP1-2007
14	Le Duc Anh	The University of Tokyo, Japan	New Magnetotransport Phenomena in Non-magnetic/Ferromagnetic Semiconductor Quantum Heterostructures	SP1-2008
15	Ahmad Taufiq	The State University of Malang, Indonesia	Exploring Indonesian Natural Resources to Produce Magnetic Fluids for Biomedical, Sensor, and Radar Absorbing Applications	NM1-2009

Oral Presenters

No.	Name	Institution/University	Abstract Title	Code
1	Seiji Idachi	Nagoya University, Japan	Highly Sensitive Wide Dynamic Range GMI Sensor based on Single Coil Feedback	BM2-1001
2	Jisang Hong	Pukyong National University, Korea	Finite Temperature Property of Fe based Rare-earth free Permanent Magnet	HMM2-1002

No.	Name	Institution/University	Abstract Title	Code
3	Shigenori Utsumi	Suwa University of Science, Japan	Incommensurate Helimagnetic Structure of Hexagonal Ferrite $\text{Ba}(\text{Fe}_{1-x}\text{Sc}_x)_{12}\text{O}_{19}$ Revealed by Single-Crystal Neutron Diffraction and Elucidation of Its Development Mechanism	HMM2-1003
4	Nurfina Yudasari	National Research and Innovation Agency (BRIN), Indonesia	Investigations of Laser Ablation Technique for Producing Zinc Ferrite Nanoparticles as a Magnetically Separable Photocatalyst	MA2-1004
5	Lucky Darmawan	Universitas Indonesia, Indonesia	Coupling Effect on Microwaves Absorption Properties of $[\text{SrFe}_{(12-2x)}\text{Mn}_x\text{Ti}_x\text{O}_{19}]_{1-y} - [\text{Fe-Co}]_y$ Magnetic Nanocomposite Material	MA2-1005
6	Hiroaki Kikuchi	Iwate University, Japan	Rapid and Simple Method for Controlling Characteristics of Thin-Film Magnetoimpedance Element	MA2-1006
7	Sunglae Cho	University of Ulsan, Korea	Growth Temperature Dependent Magnetic Properties of Fe Film on BaTiO_3	MA2-1007
8	Ngoc Xuan Dat Mai	Center for Innovative Materials and Architectures (INOMAR), VNU-HCM, Vietnam	A Hybrid Magnetic-Biodegradable Periodic Mesoporous Organosilica Nanoparticles as Efficient Nanocarrier for Drug Delivery	MA2-1008
9	Simon Greaves	RIEC, Tohoku University, Japan	Three Dimensional Magnetic Recording	MA2-1009
10	Nikolai Perov	Lomonosov Moscow State University, Russia	Multiferroics Based on Magnetic Elastomers and Their Applications	ME1-2005
11	Do Thi Huong Giang	Vietnam National University, Vietnam	Non-Volatile Multi-State Switching of Magnetisation States Induced by Electric-Field-Driven in an Micropatterned Multiferroics	ME2-1010
12	Yike Zhang	Tsinghua University, China	Electric-Field Control of Nonvolatile Resistance State of Perpendicular Magnetic Tunnel Junction	ME2-1011
13	Putri Dwi Jayanti	Universitas Gadjah Mada, Indonesia	Localized Surface Plasmon Resonance Properties of Green Synthesized Ag/rGO Composite Nanoparticles utilizing <i>Amaranthus viridis</i>	MG2-1012

No.	Name	Institution/University	Abstract Title	Code
14	Adhistinka Jiananda	Universitas Gadjah Mada, Indonesia	Magnetic Hyperthermia Properties of Green Synthesized Fe ₃ O ₄ /Cdots Nanocomposites utilizing Moringa oleifera Extract and Watermelon Peel	NM2-1013
15	Deska Lismawenning Puspitarum	Universitas Gadjah Mada, Indonesia	Construction and Mechanisms of a Recyclable Green-Synthesized CoFe ₂ O ₄ /TiO ₂ Nanocomposites Photocatalyst for Degradation of Organic Pollutant	NM2-1014
16	Dwi Teguh Rahardjo	Universitas Sebelas Maret, Indonesia	Rare-earth Elements (yttrium, lanthanum, and cerium) Substituted Cobalt Ferrite Nanoparticles by Sol-Gel Procedure: Modification of Structural, Magnetic, and Photocatalytic Properties for Dye Removal of Congo Red	NM2-1015
17	Hafil Perdana Kusumah	Universitas Gadjah Mada, Indonesia	Green Synthesized Fe ₃ O ₄ /rGO/TiO ₂ nanocomposites as Magnetically Separable Photocatalyst for Organic Dye Degradation	NM2-1016
18	Emi Kurnia Sari	Universitas Gadjah Mada, Indonesia	Heavy Metal Ion Removal in an Aqueous Environment Utilizing Magnetically Separable Green Synthesized Fe ₃ O ₄ /Cdots Nanocomposite Adsorbents	NM2-1017
19	Kirana Yuniati Putri	National Research and Innovation Agency (BRIN), Indonesia	Fabrication of Nanometer-Sized Iron-Based Nanoparticles via Laser-Induced Photochemical Process	NM2-1018
20	Jyh-Shen Tsay	National Taiwan Normal University, Taiwan	Energy Level Diagrams and Magnetic Properties of Rubrene/Nickel Bilayers with Alternative Stacking Sequences	NM2-1019
21	Larrisa Jestha Mahardhika	Universitas Gadjah Mada, Indonesia	Photodegradation Enhancement of Methylene Blue Using Green-Synthesized Fe ₃ O ₄ /rGO Nanocomposite	NM2-1020
22	Tsu-Yi Fu	National Taiwan Normal University, Taiwan	Temperature- driven Fe containing islands growth on Ge(111)-c(2×8) surfaces	NM2-1021
23	Sudarmono	Universitas Gadjah Mada, Indonesia	Green Synthesis of Fe ₃ O ₄ /Chitosan Nanocomposites for	NM2-1022

No.	Name	Institution/University	Abstract Title	Code
			Photocatalytic Degradation of Methylene Blue	
24	Shendrikova Lidia	M. V. Lomonosov Moscow State University, Russia	Magneto-Impedance Characteristics of Amorphous Materials of Various Shapes	SMM2-1024
25	Chih-Hao Lee	National Tsing Hua University, Taiwan	Unveiling Extraordinary Room Temperature Ferromagnetic Behavior in Gd-Doped MoS ₂ few-layered Thin Films Deposited via Magnetron Sputtering	SMM2-1025
26	Achmad Ainul Yaqin	Universitas Indonesia, Indonesia	The Role of CoFe ₂ O ₄ Nanoparticle in Matrix of SrIn _{0.1} Fe _(11.9-x) Sn _{0.5x} Zn _{0.5x} O ₁₉ Composites on Remanent Enhancement	SMM2-1026
27	Jung-Chung Andrew Huang	National Cheng Kung University, Taiwan	Spin-to-Charge Conversion in MoS ₂ by tuning the interface	SP2-1027
28	Dahai Wei	Institute of Semiconductors, Chinese Academy of Sciences, China	Separation of Rare Earth- and Transition Metal-Contributions to the Interfacial Dzyaloshinskii-Moriya Interaction in Ferrimagnetic Co-Gd Alloys	SP2-1028
29	Candra Kurniawan	National Research and Innovation Agency (BRIN), Indonesia	Investigation of Domain Wall Depinning in the CoFeB Staggered Nanowire by Nanosecond Current Pulse using Micromagnetic Approach	SP2-1029
30	Aleksei Gavriilovich Kozlov	Far Eastern Federal University, Russian Federation	Interfacial Effects in Epitaxial Pd/Co/(x) Films	SP2-1030
31	Jing Ci Su	National Taiwan University, Taiwan	Superlattice Barrier Magnetic Tunnel Junctions for High Endurance and Performance	SP2-1031
32	Ivan Kurniawan	National Institute for Materials Science (NIMS), Japan	Theoretical Study of Lattice Dynamics Effect on Damping Constant of FePt at Finite Temperature	SP2-1032
33	Ji-Sung Yu	Seoul National University, Korea	Correlation between Magnetic Susceptibility and Interfacial Dzyaloshinskii-Moriya Interaction in Pt/Co/X Films	SP2-1033
34	Hideto Yanagihara	University of Tsukuba, Japan	Interfacial Perpendicular Magnetic Anisotropy at Fe/NiO(001)	SP2-1034
35	Young Keun Kim	Korea University, Korea	Enhanced Spin-orbit Torque in Perpendicularly Magnetized	SP2-1035

No.	Name	Institution/University	Abstract Title	Code
			Heterostructures with Si-alloyed β -W Layers	
36	Na Lei	Beihang University, China	Experimental Demonstration of a Skyrmion-Enhanced Strain-mediated Physical Reservoir Computing System	SP2-1036
37	Shih-Hung Cheng	National Taiwan University, Taiwan	Large Spin Current Density in Gate-Controlled Spin-Valves Based on Armchair Graphene Nanoribbons	SP2-1037
38	Rie Umetsu	Tohoku University, Japan	Magnetic Properties and Electronic Structures of (Cr,Fe)Z (Z = S, Se and Te) Chalcogenide Compounds with NiAs-type Structure	SP2-1038
39	Aleksei Gavriilovich Kozlov	Far Eastern Federal University, Russian Federation	Magnetic Properties of Epitaxial [Pd/Co/CoO] _n Superlattices	SP2-1039
40	Norio Inui	University of Hyogo, Japan	Bent Graphene Cantilevers in the Presence of a Magnetic Field	TH2-1040
41	Adam Badra Cahaya	Universitas Indonesia, Indonesia	Diamagnetic Susceptibility of Interacting Electrons System	TH2-1041
42	Abdul Muizz Tri Pradipto	Institut Teknologi Bandung, Indonesia	Role of Rashba Splitting on the Electronic Structures of Organic Semiconductors	TH2-1042
43	Tasrief Surungan	Hasanuddin University, Indonesia	Search for the Spin Glass Phase of the Dodecahedral Spin Model on Cubic Lattice	TH2-1043