



FINAL PROGRAM

*International Forum on*  
***Applied Superconductivity  
and Magnetism*** **IFASM 2022**

 Gold Coast Convention and Exhibition Centre

 December 06-07, 2022 | Australia  
December 08, 2022 | Virtual

SUPPORTERS



## INSTRUCTIONS FOR SPEAKERS

1. Plenary talks: Authors will be allotted 35 minutes to present their results, followed by a 5 minute discussion period.
2. Keynote talks: Authors will be allotted 35 minutes to present their results, followed by a 5 minute discussion period.
3. Invited talks: Authors will be allotted 17 minutes to present their results, followed by a 3 minutes discussion period.
4. Oral talks: Authors will be allotted 12 minutes to present their results, followed by a 3 minute discussion period.
5. Please do not exceed the allotted time slot
6. Speakers should have their presentations saved on a USB memory stick.
7. It is suggested to email a copy of the presentations to us as back up.
8. Please prepare the presentation in PPT files, PDF is not recommended.
9. Basic AV setup will be provided: laser pointer, cordless mike, desktop mike, sound system.
10. Laptops equipped with Windows 10, Office 2010 Pro English (Word, Powerpoint, Excel) and Adobe Reader are provided.
11. If your presentation files contain movies, please make sure that they are well formatted and connected to the main files. You may check your slides during the breaks.
12. Projectors are equipped with standard VGA connection ports. Mac users should bring their own adapter cord.
13. Please re-check this program prior to the conference to confirm if any changes have been made to your session.
14. Conference volunteers will move the mic during Q&A. Audience with questions may raise hand to receive the mic.

## INSTRUCTIONS FOR POSTER PRESENTATION

1. Maximum poster size is A0
2. Push pins for attaching the poster to the board will be provided.
3. Poster presenters will be directed to the designated board at the start of the poster session.
4. Author must be present to provide details and answer questions during the selected poster session times.

## SPEAKER ZOOM GUIDELINES

How to Participate in a Zoom Meeting?

If you have trouble logging in to Zoom or any technical issues, please write to us at [chair@ifasmoceania.org](mailto:chair@ifasmoceania.org) or call us +61 0416 000 202 (Direct phone and WhatsApp).

### Join a Meeting

- Join a meeting by clicking on a Zoom link provided on the program
- Follow the prompts to download and run Zoom application
- Enter the meeting ID if prompted
- Click to join the audio.
- When you are in the meeting, click on the Start Video button to start your video.

If you already have Zoom software installed: Open the Zoom platform, click 'join' and enter the meeting ID and password.

### Mute/Unmute & Audio Settings

You can mute and unmute your microphone. The host also can mute you. We recommend using a headset and/or microphone as it will lead to better sound quality than using your computer audio. Turn off all sound notifications on your device. Note: During the presentation we will unmute everyone except the speaker and the chairs.

### Screen Share

You will be allowed to share your screen during your presentation. Your computer screen will become visible to all the participants once you start sharing your screen. Please close all other applications on your computer so that notifications do not appear during your presentation. Keep the PowerPoint slide open on your system before you click the 'Share Screen' button. You are recommended to share the specific PowerPoint slide and not your desktop.

### Q&A

The participants should use the "Raise Hand" function and the moderator will allow the participants to unmute themselves and ask questions.

### Presentation Timings

Please note that all the timings mentioned in the program are as per the Brisbane time zone. Do ensure that you check the time difference well in advance and join the meeting at least 30 minutes prior to your scheduled presentation time. If you need us to tell the specific time slot for your presentation (in local time zone), do let us know.

**Join Zoom Meeting:**

<https://us06web.zoom.us/j/82829891253?pwd=L1laazZ1L3lYemdFZHNHb3dmOVNydz09>

**Meeting ID:** 828 2989 1253

**Passcode:** 961593

8:45-9:20 Registration and Arrival Tea Meeting Room: 3

9:20-9:30 Introduction and Opening Remark

### Plenary Talks (Each Talk 35 Minutes+5 Minutes Q&A)

Moderators: **Shahriar Hossain**, The University of Queensland, Australia  
**S X Dou**, University of Wollongong, Australia

9:30-10:10 Online  
**Superconducting Magnet Design**  
**Kathleen Amm**, Brookhaven National Laboratory, USA

10:10-10:50 Online  
**Recent Progress on Iron-based Superconductors**  
**Hideo Hosono**, Tokyo Institute of Technology, Japan

10:50-11:20 COFFEE BREAK @Foyer Area

### Session: Large Scale Applications of Superconductors-1

Moderator: **Richard Taylor**, Queensland University of Technology, Australia

11:20-11:40 Inperson (Invited)  
**Superconducting Power Cable Networks for Electric Aircraft**  
**Peter Cheetham**, FAMU-FSU College of Engineering, United States

11:40-12:00 Online (Invited)  
**Research on the Bi2212 Degradation Phenomenon of Irradiation and Stress for Magnetic Confinement Nuclear Fusion Application**  
**Zhenguang Zhang**, Chinese Academy of Sciences, China

12:00-12:20 Online (Invited)  
**Development of a New S-shaped Superconducting Hexapole Magnet**  
**Shaoqing Wei**, Chinese Academy of Sciences, China

12:20-12:40 Inperson (Invited)  
**Development of A 1.5T Extremity Superconducting Magnet**  
**Riyu Wei**, Magnetica Ltd, Australia

12:40-13:30 LUNCH BREAK @Foyer Area

### Session: Large Scale Applications of Superconductors-2

Moderator: **Peter Cheetham**, FAMU-FSU College of Engineering, United States

13:30-13:50 Inperson (Invited)  
**Nanodroplets of Liquid Metal for Flexible Printed Superconducting Circuit**  
**Xun Xu**, University of Wollongong, Australia

13:50-14:10 Online (Invited)  
**Development of Superconducting Magnets for Future Heavy Ion Accelerators**  
**Wei Wu**, Chinese Academy of Sciences, China

14:10-14:30 Online (Invited)  
**Development of On-board Magnets for the First HTS Based EDS-Maglev Test Track in China**  
**Wei Wu**, Shanghai Jiao Tong University, China

- 14:30-14:50 Inperson (Invited)  
**Superconducting our Energy Transition**  
**Richard Taylor**, Queensland University of Technology, Australia
- 14:50-15:10 Inperson (Invited)  
**On the Passive Shimming of A 7T Whole-body MRI Superconducting Magnet: Implementation with Minimized Ferromagnetic Materials Usage and Operable Magnetic Force Control**  
**Feng Liu**, The University of Queensland, Australia
- 15:10-15:25 Online (Oral)  
**On Refined Modelling of HTS Pinning Maglev System: Considering the Non-Uniform Electromagnetic Properties of HTS Bulk and the Irregularity Characteristics of Magnet Track**  
**Jun Zheng**, Southwest Jiaotong University, China
- 15:25-15:40 Inperson (Oral)  
**Design and Analysis of a Novel Fast Starting Control Method for High-temperature Superconducting Induction/Synchronous Motor with Pulse Injection Technique Equipped in Transportation Applications**  
**Yunfei Gao**, Kyoto University, Japan
- 15:40-15:55 Online (Oral)  
**pT-level Highly Sensitive TMR-superconducting Mixed Magnetic Sensor**  
**Yue Wu**, Chinese Academy of Sciences, China

15:55-16:05 Coffee Break @Foyer Area

**Session: Superconducting Materials, their Properties and Performance**

Moderator: **Xun Xu**, University of Wollongong, Australia

- 16:05-16:25 Online (Invited)  
**New Binary Rare Earth Oxides as Magnetic and Superconducting Materials**  
**Tomoteru Fukumura**, Tohoku University, Japan
- 16:25-16:45 Online (Invited)  
**New Strategy for High Critical Current Density: Heavily Electron Doping NdFeAsO**  
**Kazumasa Iida**, Nihon University, Japan
- 16:45-17:00 Inperson (Oral)  
**Reaction Proliferation and Microstructure Characterisation of Multifilament MgB<sub>2</sub> Wires**  
**Motasim Billah**, The University of Queensland, Australia
- 17:00-17:15 Inperson (Oral)  
**Effect of Gd Addition on the Superconducting Properties of Nb<sub>0.6</sub>Ti<sub>0.4</sub> and Ta<sub>0.4</sub>Ti<sub>0.6</sub> Alloys**  
**SK Ramjan**, Raja Ramanna Centre of Advanced Technology, India

**17:15-17:30 Poster Presentations**

- P-1 **Improved DC Fault Current Limiting Characteristics of Flux-Lock Type SFCL with Series connection of Two Coils using Twice Quench**  
**Sung-Hun Lim**, Soongsil University, Korea (South)
- P-2 **Liquid Metal-based Tunable Resistance Electrical Insulation Layers**  
**Guyue Bo**, University of Wollongong, Australia

18:00-19:00 Cocktails @Foyer Area

## Join Zoom Meeting:

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Meeting ID: 828 2989 1253

Passcode: 961593

09:20-09:30 Introduction &amp; Day 2 Opening Remarks

Meeting Room:3

## Plenary Talk (Each Talk 35 Minutes+5 Minutes Q&amp;A)

Moderator: **Kathleen Amm**, Brookhaven National Laboratory, USA

09:30-10:10

Online

**Materials Challenges for High Field Cuprate Magnets****David Larbalestier**, Florida State University, USA

10:10-10:50

Online

**Topological Superconductors by Proximity Effects****Jinfeng Jia**, Southern University of Science and Technology, China

10:50-11:15

COFFEE BREAK

@Foyer Area

## Session: Advanced Property Characterisation of Superconductors

Moderator: **Arend Nijhuis**, University of Twente, Netherlands

11:15-11:35

Inperson (Invited)

**Scanning Hall Probe Microscopy on Magnetically Ordered and Superconducting EuRb-1144 Single Crystals****Michael Eisterer**, Atominstitut, TU Wien, Austria

11:35-11:55

Online (Invited)

**Nuclear Techniques to Measure and Modify Magnetic and Superconducting Films with Nanoscale Precision****David Cortie**, Australian Nuclear Science and Technology Organisation, Australia

11:55-12:15

Online (Invited)

**Development of Iron-based Superconducting Wires for High-field Applications****Yanwei MA**, Chinese Academy of Sciences, China

12:15-12:35

Inperson (Invited)

**Enhanced Superconducting and Electronic Properties of Low Activation MgB<sub>2</sub> Superconductor for Fusion Application****Mahboobeh Shahbazi**, Queensland University of Technology, Australia

12:35-13:15

LUNCH BREAK

@Foyer Area

## Session: Superconducting Wire/Tape/Bulk/Coil

Moderator: **Mahboobeh Shahbazi**, Queensland University of Technology, Australia

13:15-13:35

Inperson (Invited)

**Characterization of Bi-2223 Superconducting Coils for Compact Cyclotrons in Proton Therapy****Arend Nijhuis**, University of Twente, Netherlands

13:35-13:55

Online (Invited)

**The Development and Research Status of HTS CICC for Future Fusion Reactor****Jinggang Qin**, Institute of Plasma Physics, China

13:55-14:15

Inperson (Invited)

**Development of Superconducting Homopolar Electrodynamical Devices Using Sp<sup>2</sup> Carbon Allotropes-Copper Composites and Their Frictionless Modeling and Simulation in the Presence of up to 20k Amps Direct Current****Cesimiro Fabian**, Electron Implosion Power Pty Ltd., Australia

- 14:15-14:35 Online (Invited)  
**The Development of High Temperature Superconducting Maglev Transportation in SWJTU**  
**Zigang Deng**, Southwest Jiaotong University, China
- 14:35-14:50 Online (Oral)  
**Structural Design of a Large-gap Superconducting Spectrometer Magnet for CEE**  
**Lu Jiaqi**, Institute of Modern Physics, Chinese Academy of Sciences, China
- 14:50-15:05 Online (Oral)  
**Origin of Cracks in YBCO Coated Conductors Under Axial Loading and their Interaction with Non-superconducting Phase Particles**  
**Lei Shen**, Lanzhou University, China
- 15:05-15:20 Online (Oral)  
**Charge Density Wave and Superconductivity in the Kagome Metal  $CsV_3Sb_5$  Around a Pressure-induced Quantum Critical Point**  
**Chongze Wang**, Hanyang University, Korea (South)
- 15:20-15:35 Online (Oral)  
**Degradation Characteristics of No-insulation REBCO Coils in 20-T HTS Magnet Testing**  
**Liangjun Shao**, Tsinghua University, China

15:35-15:55

Coffee Break

@Foyer Area

### Session: Magnetic and Superconducting Properties for Electronic Devices-1

Moderator: **Michael Eisterer**, Atominstitut, TU Wien, Austria

- 15:55-16:15 Inperson (Invited)  
**Superlattices, Orbital Character and the Mechanism for Superconductivity**  
**Jose Alarco**, Queensland University of Technology, Australia
- 16:15-16:35 Inperson (Invited)  
**A Compact Giant Inductance Device Based on the Negative Flowing Current Across the Ferromagnetic Josephson Junction for Superconducting Electronics**  
**Feng Li**, Nagoya University, Japan
- 16:35-16:55 Inperson (Invited)  
**Magnetic Nanocellulose for Waste Water Treatment**  
**Nasim Amiralian**, The University of Queensland, Australia
- 16:55-17:15 Inperson (Invited)  
**Spin Dynamics and Magnetoelectric Coupling Mechanisms in  $Mn_4Nb_2O_9$**   
**Guochu Deng**, Australian Nuclear Science and Technology Organisation, Australia
- 17:15-17:30 Online (Oral)  
**Interrelations Among Critical Current Density, Irreversibility Field and pseudogap in Hole Doped High- $T_c$  Cuprates**  
**Saleh Hasan Naqib**, University of Rajshahi, Bangladesh
- 17:30-17:45 Inperson (Oral)  
**Nucleation and Dynamics of Magnetic Solitons in Topological Materials**  
**Oleg A. Tretiakov**, University of New South Wales, Australia
- 17:45-18:05 Online (Invited)  
**Voltage-controlled Magnetic Tunnel Junctions for High-Speed Embedded Memory and Probabilistic Computing**  
**Pedram Khalili**, Northwestern University, USA

### Session: Magnetic and Superconducting Properties for Electronic Devices-2

Moderator: **Kazumasa Iida**, Nihon University, Japan

- 18:05-18:25 Online (Invited)  
**Quantum Anomalous Semimetals**  
**Shun-Qing Shen**, The University of Hong Kong, China

- 18:25-18:40 Online (Oral)  
**Shubnikov de-Haas Oscillations and ARPES Study in Transition Metal Doped Topological Insulators**  
**C S Yadav**, Indian Institute of Technology Mandi, India
- 18:40-18:55 Online (Oral)  
**Magnetic Moment Compensated Spin Polarized Semi-metal**  
**N. Harish Kumar**, Indian Institute of Technology Madras, India
- 18:55-19:10 Online (Oral)  
**Magnetic Field-induced Peculiar Multiferroic Behavior in L-type Ferrimagnetic  $\text{Fe}_2(\text{MoO}_4)_3$**   
**Hung-Duen Yang**, National Sun Yat-Sen University, Taiwan

**Plenary Session (Online) (Each Talk 35 Minutes+5 Minutes Q&A)**

Moderator: **Jose Alarco**, Queensland University of Technology, Australia

- 19:10-19:50 Online  
**(RE)-Ba-Cu-O Single Grain Bulk Superconductors with Improved Superconducting and Mechanical Properties**  
**David Cardwell**, University of Cambridge, UK
- 19:50-20:30 Online  
**Climate Change and the Need For Emerging Materials and Technologies**  
**Geoffrey Levermore**, Emeritus Professor, The University of Manchester, UK

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## Online Session: Superconductors for Industry

Moderator: **Riyu We**, Magnetica Ltd, Australia

- 9:00-9:20 Invited  
**Commercial Superconductors and Application Business Opportunities**  
**Michael Tomsic**, Hyper Tech Research Inc., USA
- 9:20-9:40 Invited  
**Development of Industrial Grade MgB<sub>2</sub> Superconducting Wires and Magnet at Hyper Tech Research**  
**Matt Rindfleisch**, Hyper Tech Research, USA
- 9:40-10:00 Invited  
**Development of Industrial Scale Nb<sub>3</sub>Sn Strands at Hyper Tech Research**  
**Xuan Peng**, Hyper Tech Research, USA
- 10:00-10:20 Invited  
**Recent Progress on 2G HTS Tape Development in China**  
**Yue Zhao**, Shanghai Jiao Tong University, China
- 10:20-10:40 Invited  
**Development of Superconducting MRI Magnet System at Ningbo Jansen**  
**Jianyi Xu & Jie Zheng**, Ningbo Jansen Superconducting Technologies Co., Ltd, China

## Online Session: Superconductors: From Fundamentals to Applications-1

Moderator: **David Cortie**, Australian Nuclear Science and Technology Organisation, Australia

- 10:40-11:00 Invited  
**Recent Developments on Nb<sub>3</sub>Sn Superconducting Undulators**  
**Ibrahim Kesgin**, Argonne National Laboratory, United States
- 11:00-11:20 Invited  
**High-Pressure NMR Studies of FeSe<sub>1-x</sub>S<sub>x</sub>: Interrelationships between Nematicity, Antiferromagnetic Spin Fluctuations, and Superconductivity**  
**Yuji Furukawa**, Iowa state University, United States
- 11:20-11:40 Invited  
**DFT/HSE06 Investigation on Low Index Surfaces of the TiSe<sub>2</sub> Material to Analysis New Potential Applications**  
**Sergio Ricardo de Lazaro**, State University of Ponta Grossa, Brazil
- 11:40-11:55 Oral  
**Understanding the Long Length Uniformity and Potential of Bi-2212 Wires by Critical Current Distribution Measurements**  
**Shaon Barua**, Florida State University, USA

## Plenary Session (Online) (35 Minutes+5 Minutes Q&amp;A)

Moderator: **Ibrahim Kesgin**, Argonne National Laboratory, United States

- 11:55-12:35 Plenary  
**High-Field Magnets: MIT Magnet Lab Experience**  
**Yukikazu Iwasa**, Massachusetts Institute of Technology, USA



## Online Session: Superconductors: From Fundamentals to Applications-2

Moderator: **Ibrahim Kesgin**, Argonne National Laboratory, United States

- 12:35-12:55 **Invited**  
**Low-temperature Pulsed Field Magnetization of HTS Bulk Assembly**  
**Difan Zhou**, Shanghai University, China
- 12:55-13:15 **Invited**  
**Automatic Detection of Local Inhomogeneity in REBCO Coated Conductor by High-Speed Reel-to-Reel Scanning Hall Probe Magnetic Microscopy Coupled with Machine Learning Based Image Analysis**  
**Takanobu Kiss**, Kyushu University, Japan
- 13:15-13:35 **Invited**  
**Design Progress of the CFETR Superconducting Magnet**  
**Yong Ren**, Chinese Academy of Science, China
- 13:35-13:55 **Invited**  
**Magnetization of the Field Pole of a High-temperature Superconducting Motor Constituted of Multiple Bulks**  
**Antomne A. Caunes**, Tokyo University of Marine Science and Technology, Japan
- 13:55-14:10 **Oral**  
**Electronic and Superconducting Properties of Some FeSe-based Single Crystals and Films Grown Hydrothermally**  
**Xiaoli Dong**, Chinese Academy of Science, China
- 14:10-14:25 **Oral**  
**Screening Current Induced Stress in High Field Magnets Using REBCO Coated Conductors**  
**Timing Qu**, Tsinghua University, China
- 14:25-14:40 **Oral**  
**Challenges of Large Scale Production of 2G Wires for High Field Application at SuperOx Japan**  
**Valery Petrykin**, SuperOx Japan LLC, Japan

## Online Poster Presentations

Moderator: **Motasim Billah**, The University of Queensland, Australia

- 14:40-14:50 e-poster (7+3) Minutes  
**Conceptual Design of an HTS Linear Power Generator for Wave Energy Conversion**  
**Petrus Kambo**, Tokyo University of Marine Science and Technology, Japan
- 14:50-15:00 e-poster (7+3) Minutes  
**Superconducting EIS Coil for 1.5T Whole-body MRI Magnet**  
**Ajit Dattu Nandawadekar**, Inter University Accelerator Centre, India
- 15:00-15:10 e-poster (7+3) Minutes  
**Some Key Issues Related to Development of the Iron-based Superconductor Inserted Coil**  
**Wenge Chen**, High Magnetic Field Laboratory, China
- 15:10-15:20 e-poster (7+3) Minutes  
**Analysis on Mechanical Properties of 10 MJ HTS SMES Magnet Wound by Q-ISs and STCs**  
**Zikun Zhao**, North China Electric Power University, China
- 15:20-15:30 e-poster (7+3) Minutes  
**Analysis on Distribution of Critical Current and Thermal Stability of 10 MJ HTS SMES Magnet Wound by Q-ISs and STCs**  
**Yubo Gao**, North China Electric Power University, China

15:30-17:30 **Break**

## Online Session: Superconductors: From Fundamentals to Applications-3

Moderator: **Mahboobeh Shahbazi**, Queensland University of Technology, Australia

- 17:30-17:50 **Invited**  
**Influence of the Wire Diameter, Filament Size and Interval Ag Space on the Processing Window of Bi2212 Wires**  
**Zhenbao Li**, Northwest Institute for Nonferrous Metal Research, China
- 17:50-18:10 **Invited**  
**Superconducting Properties and Vortex Avalanches of High Entropy and Medium Entropy Alloys Synthesized by Melting and Powder Metallurgical Processes**  
**Jong-Soo Rhyee**, Kyung Hee University, Korea (South)
- 18:10-18:30 **Invited**  
**Hybrid Energy Transfer with Superconductivity - What is Going on**  
**Vitaly Vysotsky**, All-Russian Scientific Research Institute of the Cable Industry, Russia
- 18:30-18:50 **Invited**  
**ReBCO High-Temperature Superconductors for Future High-field Accelerator Magnets**  
**Anna Kario**, University of Twente / EMS, Netherlands
- 18:50-19:10 **Invited**  
**Vortex Commensurability and Ordered Bose Glass Phenomena in  $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$  Thin Films with Ultradense Pinning Landscapes Fabricated by Focused Helium Ion Beam Irradiation**  
**Wolfgang Lang**, University of Vienna, Austria
- 19:10-19:30 **Invited**  
**Intelligent and Sustainable Processing of Innovative Rare-Earth Magnets**  
**Spomenka Kobe**, Jožef Stefan Institute, Slovenia

## Online Session: Superconductors: From Fundamentals to Applications-4

Moderator: **Shahriar Hossain**, The University of Queensland, Australia

- 19:30-19:50 **Invited**  
**Influence of Annealing Conditions on the Structure and Critical Parameters of  $\text{MgB}_2$  Superconducting Wires with Nano  $^{11}\text{B}$  made by CTFF Method and Future Approach for the PIT Technique**  
**Michal Babij**, Polish Academy of Sciences, Poland
- 19:50-20:10 **Invited**  
**Modification of Superconducting Properties in Nb Using Laser Technologies**  
**Luis A. Angurel**, University of Zaragoza, Spain
- 20:10-20:30 **Invited**  
**Laser based 3D Technologies to Texture Large Size Bi-2212 Superconducting Materials with different Geometries**  
**Can Ozelik**, University of Zaragoza, Spain
- 20:30-20:50 **Invited**  
**Resonant Photoelectron Spectroscopy Unravels Out-of-plane, s-type Electronic Contributions in Bi-cuprates**  
**Christoph Janowitz**, Institut für Physik, Germany
- 20:50-21:10 **Invited**  
**Anisotropic Flux Pinning Mechanism in Fe(Se,Te) and YBCO Superconducting Films**  
**Gaia Grimaldi**, National Research Council - CNR, Italy
- 21:10-21:25 **Oral**  
**Overcoming the Challenges Associated with Joining RE-Ba-Cu-O Bulk Superconductors**  
**J V J Congreve**, University of Cambridge, United Kingdom
- 21:25-21:40 **Oral**  
**The Connection between Porosity and Superconducting Properties in YBCO Single Grains**  
**Josef Baumann**, University of Cambridge, United Kingdom

# International Forum on Applied Superconductivity and Magnetism **IFASM 2022**

Supporters



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Organizer



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