# **The 11th Workshop on Mechanical and Electromagnetic Properties of**

# **Composite Superconductors MEM24**

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**Abstract:**

MEM workshop is a platform to disseminate results and exchange ideas among researchers studying electromechanical properties of low-and high-temperature superconductors, a topic that is highly relevant to superconductor applications given the strain sensitivity of most superconductors. It also includes topics relating to the superconductors’ electromagnetic properties, superconducting device fabrication and performance, as well as measurement techniques, benchmarking, and standardization. MEM24 will bring together electromechanical specialists along with superconductor manufacturers and magnet and other application developers to facilitate discussions. Particle-accelerator, fusion-energy, medical, laboratory magnets, and other application devices will be included in the program. The program will be structured by conductor, and sessions sequenced from conductor to device design and fabrication to pinpoint the causality between conductor properties and successes or failures of devices made of such conductor. For each conductor kind, there will be four to five sessions, as outlined on the MEM24 website ([11th Workshop on Mechanical and Electromagnetic Properties of Composite Superconductors - MagLab (nationalmaglab.org)](https://nationalmaglab.org/news-events/events/for-scientists/mechanical-and-electromagnetic-properties-of-composite-superconductor-workshop/)). Abstracts should specifically cover the workshop purpose, objectives, and themes, and fit in at least one of the sessions outlined on MEM24 website. Abstracts should not exceed 500 words including acknowledgments.

**Abstract topics:**

Please mark in this table the topics addressed in your abstract by an “**X**” where applicable (an example is shown below)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Material** | Nb3Sn/Nb3Al  **X** | MgB2 | ReBCO | Bi-2223 | Iron-based | Bi-2212 |
| **Form** | Strand  **X** | Cable | Magnet | | Other Application Device | |
| **Reported Data** | General Properties | Electromechanical Properties  **X** | Application Design | Application Performance | Benchmarking & Standardization  **X** | |

Please save in the format FirstLastName\_Asbtract#\_MEM24 and email it to [mem24@magnet.fsu.edu](mailto:mem24@magnet.fsu.edu)