List Of 2016 Reports

ID#	Title, First Author, and Category	Status
207	**Title:** 1.5 GHz 35 T NMR Magnets with Bi2223 High Temperature Superconductor **First Author:** Markiewicz, W.D., NHMFL, markwcz@magnet.fsu.edu **PI:** Marshall, W.S., NHMFL, wsmarshall@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** None	Edited
196	**Title:** Generation of 40 T with a 9 T No-Insulation REBCO Insert Operated in a 31 T Resistive Background Magnet **First Author:** Hahn, S, Applied Superconductivity Center, shahn@asc.magnet.fsu.edu **PI:** Hahn, S, Applied Superconductivity Center, shahn@asc.magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** DC Field Facility **Highest Measured Field:** 40 T **UCGP: Yes VSP: Yes Publication Status:** Manuscript in preparation **Sign. Achievement: Yes** **Director's Recommendation: Yes** **Director's Comments:** None	Edited
226	**Title:** Electrically Insulating Bi-2212 Round Wires Using a Combination of TiO2 Coating and Alumino-silicate Braid **First Author:** Trociewitz, U.P., ASC/NHMFL, trociew@asc.magnet.fsu.edu **PI:** Trociewitz, U.P., ASC/NHMFL, trociew@asc.magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** The insulation group have done a wonderful job in both basic science of the reactions occurring at nearly 900 C and in implementing a process that occurs partly at the NHMFL (TiO2 application) and partly in industry (at OST) AFTER the TiO2 has been applied. The process works as an insulation and as a strengthening aid and as an epoxy wicker. Very nice piece of applied science vital to 2212 coil technology.	Edited
280	**Title:** Determination of Recrystallization Activation Energy in Nanotwinned Copper **First Author:** Niu, RN, National High Magnetic Field Laboratory, rniu@magnet.fsu.edu **PI:** Han, KH, National High Magnetic Field Laboratory, han@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP: Yes VSP:** No **Published in** Scientific Reports 6/31410 **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
475	**Title:** Analysis of Mutual Forces of the NHMFL High Field Magnets and the Magnetic Shielding Efficiency **First Author:** Gavrilin, A.V., Florida State University, National High Magnetic Field Laboratory, MS&T, gavrilin@magnet.fsu.edu **PI:** Bird, M.D., Florida State University, National High Magnetic Field Laboratory, MS&T, bird@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
203	**Title:** Design of a 40 T resistive magnet at the NHMFL **First Author:** Toth, J., NHMFL, MS&T, toth@magnet.fsu.edu **PI:** Toth, J., NHMFL, MS&T, toth@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
219	**Title:** FEM Modeling of Successful Strain Management of Bi-2212 Round Wire Prototype Coils **First Author:** Bosque, EB, National High Magnetic Field Laboratory, Applied Superconductivity Center,	Edited

	bosque@magnet.fsu.edu **PI:** Larbalestier, DL, National High Magnetic Field Laboratory, Applied Superconductivity Center, larbalestier@asc.magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	
221	**Title:** Layer Winding of Bi-2212 Round Wire and Its Surface Uniformity Measurement **First Author:** Kim, Y., National High Magnetic Field Laboratory, Applied Superconductivity Center, kim@asc.magnet.fsu.edu **PI:** Trociewitz, U.P., National High Magnetic Field Laboratory, Applied Superconductivity Center, trociew@asc.magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
112	**Title:** Relative Strain in Cu-Nb Composite Wound Wire **First Author:** Goddard, R.E., National High Magnetic Field Laboratory-FSU, Magnet Science and Technology, goddard@magnet.fsu.edu **PI:** Goddard, R.E., National High Magnetic Field Laboratory-FSU, Magnet Science and Technology, goddard@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Published in** Microscopy and Microanalysis **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
144	**Title:** Processing on Microstructure and Properteis in Cu-Nb Composite Wire **First Author:** han, k, MagLab, han@magnet.fsu.edu **PI:** han, k, MagLab, han@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **Highest Measured Field:** 31 T **UCGP:** No **VSP:** No **Published in** IEEE Trans. Appl. Supercond. **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
171	**Title:** Bi-2223 Test Coils for High Field High Resolution NMR Magnets **First Author:** Marshall, WSM, National High Magnetic Field Laboratory, Magnet Science and Technology, wsmarshall@magnet.fsu.edu **PI:** Marshall, WSM, National High Magnetic Field Laboratory, Magnet Science and Technology, wsmarshall@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Accepted by** IEEE Trans. Appl. Supercond. 27 **Sign. Achievement: Yes** **Director's Recommendation: No** **Director's Comments:** None	Edited
189	**Title:** Development of an Approximation for the Force between a Ferrous Object and an Electromagnet Generating a Field Operating Safely within Specifications **First Author:** Hilton, D.K., NHMFL, dkhilton@magnet.fsu.edu **PI:** Weijers, H.W., NHMFL, weijers@magnet.fsu.edu **Category:** Magnet Technology and Magnet Materials **Facility:** MS & T **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
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