

## List Of 2015 Reports

ID#	Title, First Author, and Category	Status
<a href="#"><u>139</u></a>	<p><b>Title:</b> Quench Analysis of Low Resistance Pancake Wound REBCO Coils  <b>First Author:</b> Markiewicz, W.D., NHMFL, markwcz@magnet.fsu.edu  <b>PI:</b> Markiewicz, W.D., NHMFL, markwcz@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Accepted by Superconductor Science and Technology</b>  <b>Sign. Achievement:</b> <b>Yes</b>  <b>Director's Recommendation:</b> <b>Yes, definitely</b>  <b>Director's Comments:</b> None</p>	Approved
<a href="#"><u>283</u></a>	<p><b>Title:</b> 32 T Prototype Testing: Quench Behavior and Magnetic Field Record  <b>First Author:</b> Weijers, H.W., NHMFL / FSU, MST, weijers@gmail.com  <b>PI:</b> Weijers, H.W., NHMFL / FSU, MST, weijers@gmail.com  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to IEEE Trans. Appl. Supercond.</b>  <b>Sign. Achievement:</b> <b>Yes</b>  <b>Director's Recommendation:</b> <b>Yes, definitely</b>  <b>Director's Comments:</b> None</p>	Approved
<a href="#"><u>330</u></a>	<p><b>Title:</b> Dependence of Quench Degradation Limit on Axial Stress up to 160 MPa for High Performance Bi-2212 wires up to 30 T  <b>First Author:</b> Ye, L., Fermilab, NCSU, yely1024@fnal.gov  <b>PI:</b> Shen, T., Tengming, Tengming, tshen@fnal.gov  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> DC Field Facility  <b>Highest Measured Field:</b> 31 T  <b>UCGP:</b> No <b>VSP:</b> No <b>Publication Status:</b> Manuscript in preparation  <b>Sign. Achievement:</b> <b>Yes</b>  <b>Director's Recommendation:</b> <b>Yes</b>  <b>Director's Comments:</b> None</p>	Approved
<a href="#"><u>156</u></a>	<p><b>Title:</b> Ceramic Insulation of Bi-2212 Round Wire for High-Field Magnet Applications  <b>First Author:</b> Lu, J., FSU/NHMFL, MS&amp;T, junlu@magnet.fsu.edu  <b>PI:</b> Lu, J., FSU/NHMFL, MS&amp;T, junlu@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> Applied Superconductivity Center  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to IEEE Trans. Appl. Supercond.</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> <b>Yes</b>  <b>Director's Comments:</b> This is a major technical accomplishment that is essential to the technology of Bi-2212 coils. It is a very fine piece of work by Jun Lu and his team.</p>	Approved
<a href="#"><u>192</u></a>	<p><b>Title:</b> Full Comprehensive Analysis of Quench Events in the NHMFL 32T All-Superconducting Magnet during Operation  <b>First Author:</b> Gavrilin, A.V., National High Magnetic Field Laboratory, Magnet Science &amp; Technology, gavrilin@magnet.fsu.edu  <b>PI:</b> Weijers, H.W., National High Magnetic Field Laboratory, Magnet Science &amp; Technology, weijers@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Publication Status:</b> Manuscript in preparation  <b>Sign. Achievement:</b> <b>Yes</b>  <b>Director's Recommendation:</b> <b>Yes</b>  <b>Director's Comments:</b> None</p>	Approved
<a href="#"><u>224</u></a>	<p><b>Title:</b> Resistive Insert Magnet Design for the FSU Series Connected Hybrid  <b>First Author:</b> Toth, J., NHMFL, MS&amp;T, toth@magnet.fsu.edu  <b>PI:</b> Bird, M.D., NHMFL, MS&amp;T, bird@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to IEEE Trans. Appl. Supercond. TBD</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> <b>No</b>  <b>Director's Comments:</b> None</p>	Approved
	<p><b>Title:</b> Detailed Analyses of the Magnetic Field Uniformity of the NHMFL 32T All-Superconducting Magnet and the Magnet Insert Safety Margin  <b>First Author:</b> Gavrilin, A.V., National High Magnetic Field Laboratory, Magnet Science &amp; Technology, gavrilin@magnet.fsu.edu</p>	

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17	<p><b>Title:</b> Structural Integrity of the NHMFL Series Connected Hybrid Magnet Cryostats  <b>First Author:</b> Li, T., NHMFL, tli@magnet.fsu.edu  <b>PI:</b> Bird, M.D., NHMFL, bird@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to IEEE Trans. Appl. Supercond.</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Editing
21	<p><b>Title:</b> Testing of 20 kA Binary Current Leads for MagLab Series-Connected Hybrid Outsert Coil  <b>First Author:</b> Marshall, W.S., FSU, NHMFL, wsmarshall@embarqmail.com  <b>PI:</b> Marshall, W.S., FSU, NHMFL, wsmarshall@embarqmail.com  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to IEEE Trans. Appl. Supercond. MT24 Special Issue</b>  <b>Sign. Achievement:</b> Yes  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Editing
45	<p><b>Title:</b> Anomalous Spin Dynamics of the Coupled Spin-Tetramer Compound CuSeO<sub>3</sub>  <b>First Author:</b> Lee, S., Chung-Ang University, leesuheon9@gmail.com  <b>PI:</b> Choi, K.-Y., Chung-Ang University, kchoi@cau.ac.kr  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> EMR Facility  <b>Highest Measured Field:</b> 12 T  <b>UCGP:</b> No <b>VSP:</b> No <b>Publication Status:</b> Manuscript in preparation  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Approved
46	<p><b>Title:</b> Ag Precipitation Behavior in CuAg Alloys  <b>First Author:</b> Niu, R.N., National High Magnetic Field Laboratory, rniu@magnet.fsu.edu  <b>PI:</b> Han, K.H., National High Magnetic Field Laboratory, han@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Published in J. Alloy Compd. 622/69-72</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Approved
93	<p><b>Title:</b> Thermal Stability of Cu-Nb Microcomposite Wires  <b>First Author:</b> Han, K, MagLab, han@magnet.fsu.edu  <b>PI:</b> Han, K, MagLab, han@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Published in Acta Mater.</b>  <b>Sign. Achievement:</b> Yes  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Approved
472	<p><b>Title:</b> Bi-2212 Round Wire Stress Management and Stress Coil Test Result  <b>First Author:</b> Kim, Y.K., National High Magnetic Field Laboratory, Applied Superconductivity Center, kim@asc.magnet.fsu.edu  <b>PI:</b> Trociewitz, U.P.T., National High Magnetic Field Laboratory, Applied Superconductivity Center, trociew@asc.magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> DC Field Facility  <b>Highest Measured Field:</b> 18 T  <b>UCGP:</b> No <b>VSP:</b> No <b>Publication Status:</b> Not at this time  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	Approved
	<p><b>Title:</b> High Engineering Current Density (Re)BCO Tapes for CORC® Cables  <b>First Author:</b> Abramov, D., NHMFL, abramov@asc.magnet.fsu.edu</p>	

<p><a href="#">499</a></p>	<p><b>PI:</b> Abraimov, D., NHMFL, abraimov@asc.magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> DC Field Facility  <b>Highest Measured Field:</b> 31 T  <b>UCGP:</b> No <b>VSP:</b> No <b>Submitted to Superconductor Science and Technology</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	<p>Approved</p>
<p><a href="#">297</a></p>	<p><b>Title:</b> Tensile and Fatigue Qualification Testing of ITER-CS Conduit Alloy JK2LB  <b>First Author:</b> Walsh, R.P., FSU, NHMFL, walsh@magnet.fsu.edu  <b>PI:</b> Walsh, R.P., FSU, NHMFL, walsh@magnet.fsu.edu  <b>Category:</b> Magnet Technology and Magnet Materials  <b>Facility:</b> MS &amp; T  <b>UCGP:</b> No <b>VSP:</b> No <b>Published in Adv. Cryog. Eng. Materials Vol 60</b>  <b>Sign. Achievement:</b> No  <b>Director's Recommendation:</b> No  <b>Director's Comments:</b> None</p>	<p>Approved</p>
<p style="text-align: center;"><b>Total Reports: 15</b></p>		