List Of 2013 Reports

ID#	Title, First Author, and Category	Status
285	**Title:** Grain Alignment under 1-dimensional Confinement in High Critical Current Density Bi2212 Round Wires **First Author:** Kametani, F., National High Magnetic Field Laboratory, Applied Superconductivity Center, kametani@asc.magnet.fsu.edu **PI:** Kametani, F., National High Magnetic Field Laboratory, Applied Superconductivity Center, kametani@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** This is very clever and difficult characterization applied to understanding a big and long unresolved problem. How does current cross high angle GBs in the Bi-superocnductors.	Edited
443	**Title:** Metallographic Analysis of ITER Strands and SULTAN-Tested ITER Cable-in-Conduit-Conductors **First Author:** Lee, P.J., Applied Superconductivity Center, lee@asc.magnet.fsu.edu **PI:** Lee, P.J., Applied Superconductivity Center, lee@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: Yes, definitely** **Director's Comments:** This work was central to ITER approving new cables designs that did nto show degradation under cyclic testing in ITER.	Edited
446	**Title:** Overpressure Processing and Evaluating Bi-2212 Round Wires **First Author:** Jiang, J., ASC-NHMFL, jjiang@asc.magnet.fsu.edu **PI:** Larbalestier, D.C., ASC-NHMFL, larbalestier@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement: Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** These are the detailed characterizations that will show how to make Bi-2212 into a real HTS wire useful for magnets, especially high homogeneity magnets like NMR and acclerator magnets.	Edited
463	**Title:** Mechanochemical Synthesis of Pnictide Compounds **First Author:** Weiss, J.D., Applied Superconductivity Center, Material Science and Engineering, Weiss@asc.magnet.fsu.edu **PI:** Hellstrom, E.E., Applied Superconductivity Center, Mechanical Engineering and Material Science and Engineering, Hellstrom@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Published in** Superconductor Science and Technology 26 / 074003 **Sign. Achievement: Yes** **Director's Recommendation: Yes, definitely** **Director's Comments:** This is very clever synthesis with a big pay off - the highest current density in any polycrystalline FBS so far, close to that needed for applications.	Edited
456	**Title:** Performance of Titanium-Oxide/Polymer Insulation in Bi-2212/Ag-alloy Round Wire Wound Superconducting Coils **First Author:** Chen, P.C., NHMFL, Applied Superconductivity Center, pengchen@asc.magnet.fsu.edu **PI:** Larbalestier, D.C.L., NHMFL, Applied Superconductivity Center, larbalestier@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Published in** Superconductor Science and Technology **Sign. Achievement:** No **Director's Recommendation: Yes** **Director's Comments:** None	Edited
138	**Title:** Critical Current Measurement at 4.2 K up to 15 T of High-Temperature Superconducting Magnet Cables **First Author:** van der Laan, D., University of Colorado and Advanced Conductor Technologies, daniel.vanderlaan@colorado.edu **PI:** van der Laan, D., University of Colorado and Advanced Conductor Technologies, daniel.vanderlaan@colorado.edu **Category:** Superconductivity - Applied **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time	Edited

	Sign. Achievement: Yes **Director's Recommendation:** Yes **Director's Comments:** None	
278	**Title:** Implementation Issues of $REBa_2Cu_3O_{7-x}$ Coated Conductor in High Field Magnets **First Author:** Trociewitz, U.P., NHMFL, ASC, trociew@asc.magnet.fsu.edu **PI:** Larbalestier, D.C., NHMFL, ASC, larbalestier@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **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
449	**Title:** Magneto-Optical Study of Bulk Current Flow in Well-Connected Pnictide Compounds after Mechano-Chemical Synthesis **First Author:** Polyanskii, A.A., NHMFL, Applied Superconductivity Center, polyanskii@asc.magnet.fsu.edu **PI:** Hellstrom, E.E., NHMFL, Applied Superconductivity Center, hellstrom@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Published in** Superconductor Science and Technology 26, 074003 **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
334	**Title:** Contact-free Characterization of REBCO Coated Conductors by Vibrating Sample Magnetometer **First Author:** Jaroszynski, J., NHMFL, jaroszy@magnet.fsu.edu **PI:** Jaroszynski, J., NHMFL, jaroszy@magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** DC Field Facility **UCGP:** Yes **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
335	**Title:** Low Temperature High Field Continuous Measurement of YBCO Coated Conductor **First Author:** Jaroszynski, J., NHMFL, jaroszy@magnet.fsu.edu **PI:** Jaroszynski, J., NHMFL, jaroszy@magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** Yes **Publication Status:** Not at this time **Sign. Achievement:** Yes **Director's Recommendation: No** **Director's Comments:** None	Edited
366	**Title:** Extremely High Flux Pinning Force in Single Grain RE-Ba-Cu-O Bulk Superconductors Containing Nano-scale Pinning Centers **First Author:** Durrell, J.H., University of Cambridge, Engineering, jhd25@cam.ac.uk **PI:** Cardwell, D.A., University of Cambridge, Engineering, dc135@cam.ac.uk **Category:** Superconductivity - Applied **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Not at this time **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
459	**Title:** Fabrication of Bulk Nb3Sn for use in Small Angle Neutron Scattering (SANS) to Investigate Flux Line Lattice **First Author:** Brown, M.D., ASC, FSU, Mechanical Engineering, mdb06h@my.fsu.edu **PI:** Larbalestier, D.C., ASC, larbalestier@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **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
460	**Title:** Continuous Characterization of REBCO Coated Conductors: Comparison of Transport and Magnetization Measurements **First Author:** Hu, X., NHMFL, xhu@magnet.fsu.edu **PI:** Jaroszynski, J., NHMLF, jaroszy@magnet.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** Yes **VSP:** Yes **Publication Status:** Manuscript in preparation **Sign. Achievement:** Yes	Edited

	Director's Recommendation: No **Director's Comments:** None	
461	**Title:** Characterization of Powder in Tube Superconducting Nb_3Sn Wires **First Author:** Segal, C., Applied Superconductivity Center, Mechanical Engineering, cbs06@my.fsu.edu **PI:** Segal, C., Applied Superconductivity Center, Mechanical Engineering, cbs06@my.fsu.edu **Category:** Superconductivity - Applied **Facility:** Applied Superconductivity Center **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
462	**Title:** Changes in the Critical Properties of High-Jc NbTiTa Alloys with Final Drawing Strain **First Author:** Craig, N.C., NHMFL-ASC, craig@asc.magnet.fsu.edu **PI:** Larbalestier, D.C., NHMFL-ASC, larbalestier@asc.magnet.fsu.edu **Category:** Superconductivity - Applied **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
126	**Title:** I_c Study of MOCVD REBCO Coated Conductors for High Field Magnet Applications **First Author:** Xu, A., University of Houston, Texas center for Superconductivity at the University of Houston, axu3@central.uh.edu **PI:** Selvamanickam, V., University of Houston, Mechanical Engineering, selva@uh.edu **Category:** Superconductivity - Applied **Facility:** DC Field Facility **UCGP:** No **VSP:** No **Publication Status:** Manuscript in preparation **Sign. Achievement:** No **Director's Recommendation: No** **Director's Comments:** None	Edited
Total Reports: 16		