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| **List Of 2017 Reports**   |  |  |  | | --- | --- | --- | | **ID#** | **Title, First Author, and Category** | **Status** | | [**206**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=206) | **Title:** Design and Operation of a 13 T 52 mm No-Insulation REBCO Insert for a 20 T All-Superconducting User Magnet   **First Author:** Kim, K, Applied Superconductivity Center, kwangmin.kim@asc.magnet.fsu.edu  **PI:** Hahn, S, Applied Superconductivity Center, shahn@asc.magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** Applied Superconductivity Center  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes**  **Director's Comments:** An important attempt to make the first MagLab NI user magnet, even if not yet fully successful | Approved | | [**207**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=207) | **Title:** Development of Quench Protection of Bi-2212 Test Solenoid  **First Author:** Davis, D.S., ASC, NHMFL, FSU, Physics, ddavis@asc.magnet.fsu.edu  **PI:** Trociewitz, U.P., ASC, NHMFL, trociew@asc.magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** Applied Superconductivity Center  **UCGP:** No    **VSP:** No   **Publication Status:** Not at this time  **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** An important new venture that will likely come to full fruition in 2018 | Approved | | [**193**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=193) | **Title:** Post Quench Behavior of a Metallic Cladding (MC) No-Insulation (NI) Coil  **First Author:** Kim, K, Applied Superconductivity Center, kkim@asc.magnet.fsu.edu  **PI:** Hahn, S, Applied Superconductivity Center, shahn@asc.magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** Applied Superconductivity Center  **Highest Measured Field:** 31 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** MC coils are highly interesting yet the techniques used for producing the MC surface are not yet mature. Here seems to be a cautionary tale of what might happen if the MC layer peels, allowing quench currents in the MC coil to be concentrated locally. | Approved | | [**339**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=339) | **Title:** Reinforcement Techniques for Bi-2212 Wire  **First Author:** Kim, Y, National High Magnetic Field Laboratory, Applied Superconductivity Center, kim@asc.magnet.fsu.edu  **PI:** Trociewitz, UP, National High Magnetic Field Laboratory, Applied Superconductivity Center, trociew@asc.magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** Applied Superconductivity Center  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**216**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=216) | **Title:** Generation of New World Record DC Field 45.5 T with a 14.4 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 Materials and Magnet Technology  **Facility:** DC Field Facility  **Highest Measured Field:** 45.5 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | [**399**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=399) | **Title:** The 32 T Superconducting Magnet Achieves Full Field  **First Author:** Weijers, H.W., NHMFL, MS&T, weijers@magnet.fsu.edu  **PI:** Weijers, H.W., NHMFL, MS&T, weijers@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** DC Field Facility  **Highest Measured Field:** 32 T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes, definitely**  **Director's Comments:** None | Approved | | [**98**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=98) | **Title:** Aging effect of Zylon  **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 Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Accepted by** IEEE Trans. Appl. Supercond.   **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | [**95**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=95) | **Title:** Contact Resistance between REBCO Tapes Coated with a Thin Resistive Layer  **First Author:** Lu, Jun, NHMFL, NHMFL, junlu@magnet.fsu.edu  **PI:** Lu, Lu, NHMFL, NHMFL, junlu@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**132**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=132) | **Title:** Cu-Ag Composite Solidified Under High Magnetic Field Followed by Cold Drawing   **First Author:** Zhao, C, FSU, han@magnet.fsu.edu  **PI:** Zhao, C, FSU, han@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Published in** Metals and Materials International 23(2)  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**122**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=122) | **Title:** Design, Construction and First Testing of a 41.5 T All-Resistive Magnet  **First Author:** Toth, J.T., NHMFL, MS&T, toth@magnet.fsu.edu  **PI:** Toth, J.T., NHMFL, MS&T, toth@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Published in** IEEE Trans. Appl. Supercond. vol. 28, no. 3, April 2018, doi 10.1109/TASC.2017.2775578  **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**167**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=167) | **Title:** Fabrication and Testing of a Bi-2223 Test Coil for High Field NMR Magnets  **First Author:** Marshall, W.S., National High Magnetic Field Laboratory, wsmarshall@magnet.fsu.edu  **PI:** Marshall, W.S., National High Magnetic Field Laboratory, wsmarshall@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Submitted to** IEEE Trans. Appl. Supercond.   **Sign. Achievement:** No  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | [**179**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=179) | **Title:** Fatigue and fracture of three austenitic steels at cryogenic temperatures  **First Author:** McRae, D. M., NHMFL, MS&T, walsh@magnet.fsu.edu  **PI:** Walsh, R. P., NHMFL, MS&T, walsh@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Published in** Adv. Cryog. Eng. Mater.   **Sign. Achievement:** No  **Director's Recommendation: No**  **Director's Comments:** None | Approved | | [**281**](https://reporting.magnet.fsu.edu/reports/get.asp?ID=281) | **Title:** Predictions of Quench Behavior of the NHMFL 32T All-superconducting Magnet during Testing  **First Author:** Gavrilin, A.V., Florida State University, National High Magnetic Field Laboratory, gavrilin@magnet.fsu.edu  **PI:** Weijers, H.W., Florida State University, National High Magnetic Field Laboratory, weijers@magnet.fsu.edu  **Category:** Magnet Materials and Magnet Technology  **Facility:** MS & T  **UCGP:** No    **VSP:** No   **Publication Status:** Manuscript in preparation  **Sign. Achievement:** **Yes**  **Director's Recommendation: Yes**  **Director's Comments:** None | Approved | | **Total Reports: 13** | | | |