

## Mark W. Meisel

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Google Scholar: <https://scholar.google.com/citations?user=YwHOaJoAAAAJ&hl=en>

### Education and Training:

Northwestern University, Evanston, IL, Physics, Bachelor of Arts (BA), 1980

Northwestern University, Evanston, IL, Physics, Master of Science (MS), 1981

Northwestern University, Evanston, IL, Physics, Doctor of Philosophy (PhD), 1983

Northwestern University, Evanston, IL, Physics, Postdoctoral Fellow, 1983-1984

Laboratoire de Physique des Solides, Orsay, France, Physics, NATO Postdoctoral Fellow, 1984-1985

Laboratoire de Physique des Solides, Orsay, France, Physics, Chercheur CNRS-CEA, 1985-1986

### Research and Professional Experience:

#### *Present:*

Professor, Department of Physics, University of Florida (1998-present)

Director, National High Magnetic Field Laboratory (NHMFL or MagLab) High B/T Facility at  
University of Florida (2019-present)

#### *Past:*

Assistant Research Scientist, Department of Physics, University of Florida (1986-1988)

Assistant Professor, Department of Physics, University of Florida (1988-1993)

Visiting Assistant Professor, Kamerlingh Onnes Lab., Leiden, Netherlands (Fall 1990, Summer 1993)

Associate Professor, Department of Physics, University of Florida (1993-1998)

Visiting Associate Professor, Department of Physics, Northwestern University (1994-1995)

Graduate Coordinator, Department of Physics, University of Florida (2001-2007)

Colonel Allan R. and Margaret G. Crow Term Professor, University of Florida (2008)

Outstanding Referee of American Physical Society (APS) Journals (2008)

Fellow, American Physical Society (2009)

Doctor *honoris causa* (Dr.h.c.), Pavol Jozef Šafárik University, Košice, Slovakia (2010)

Fulbright Scholar, Pavol Jozef Šafárik University, Košice, Slovakia (February – July 2013)

Visiting Professor, Center Advanced High Magnetic Field Science, Osaka University, Japan (Fall 2014)

Visiting Professor, Institute of Physics, P.J. Šafárik University, Košice, Slovakia (Fall 2015, Spring 2016)

Visiting Scientist, Shull Wollan Center, A Joint Institute for Neutron Sciences (JINS), Oak Ridge  
National Laboratory (ORNL), Oak Ridge, TN (January – March 2016)

Robin and Jean Gibson Term Professor, UF College of Liberal Arts and Sciences (2018-2019)

University of Florida Term Professor (2019-2022)

Diversity and Inclusion Liaison, UF Department of Physics (2016-2022) and the UF College of Liberal  
Arts and Sciences Diversity and Inclusion Steering Committee (2019-2022)

Teacher of the Year, Department of Physics, University of Florida (2022)

### Five Recent, Referred Journal Publications

- T.A. Elmslie, J. Startt, S. Soto-Medina, Y. Yang, K. Feng, R.E. Baumbach, E. Zappala, G.D. Morris, B.A. Frandsen, M.W. Meisel, M.V. Manuel, R. Dingreville, J.J. Hamlin. "Magnetic properties of equiatomic CrMnFeCoNi", *Phys. Rev. B* 106 (2022) 014418, [doi:10.1103/PhysRevB.106.014418](https://doi.org/10.1103/PhysRevB.106.014418)
- S. Yergeshbayeva, J.J. Hrudka, M. Jo, M. Gakiya-Teruya, M.W. Meisel, Michael Shatruk, "Abrupt Spin Transition in a Heteroleptic Fe(II) Complex with Pendant Naphthalene Functionality", *Inorg. Chem.* 61 (2022), 11349-11358, [doi:10.1021/acs.inorgchem.2c01490](https://doi.org/10.1021/acs.inorgchem.2c01490)
- M. Gakiya-Teruya, X. Jiang, D. Le, Ö. Üngör, A.J. Durrani, J. Koptur-Palenchar, J. Jiang, T. Jiang, M.W. Meisel, H.-P. Cheng, X.-G. Zhang, X.-X. Zhang, T.S. Rahman, A.F. Hebard, M. Shatruk, "Asymmetric Design of Spin-Crossover Complexes to Increase the Volatility for Surface Deposition", *J. Am. Chem. Soc.* 143 (2021) 14563-14572, [doi.org/10.1021/jacs.1c04598](https://doi.org/10.1021/jacs.1c04598)
- J.M. Cain, A.C. Felts, M.W. Meisel, D.R. Talham, "Crafting Spin-State Switchable Strain Profiles within  $\text{Rb}_x\text{Co}[\text{Fe}(\text{CN})_6]_y@K_j\text{Ni}[\text{Cr}(\text{CN})_6]_k$  Heterostructures", *Chem. Mater.* 33 (2021) 246–255, [doi:10.1021/acs.chemmater.0c03608](https://doi.org/10.1021/acs.chemmater.0c03608)
- J.M. DeStefano, G.P. Marciaga, J.B. Flahavan, U.S. Shah, T.A. Elmslie, M.W. Meisel, J.J. Hamlin, "Absence of superconductivity in topological metal  $\text{ScInAu}_2$ ", *Physica C* 589 (2021) 1353928, [doi:10.1016/j.physc.2021.1353928](https://doi.org/10.1016/j.physc.2021.1353928)

### Five Additional Recent, Referred Journal Publications

- J.M. Cain, W. He, I. Maurin, M.W. Meisel, D.R. Talham, "Stimulus induced strain in spin transition heterostructures", *J. Appl. Phys.* 129 (2021) 160903, [doi:10.1063/5.0045939](https://doi.org/10.1063/5.0045939)
- W. He, J.M. Cain, M.W. Meisel, D.R. Talham, "Interplay between core and shell in a  $\text{RbCoFe}@\text{RbNiCo}$  Prussian blue analogue spin transition heterostructure", *J. Mater. Chem. C* 9 (2021) 10830-10840, [doi:10.1039/D1TC01514A](https://doi.org/10.1039/D1TC01514A)
- D.M. Pajerowski, J.L. Manson, J. Herbrych, J. Bendix, A.P. Podlesnyak, J.M. Cain, M.W. Meisel, "Inelastic neutron scattering study of the anisotropic  $S=1$  spin chain  $[\text{Ni}(\text{HF}_2)(3\text{-Clpyridine})_4]\text{BF}_4$ ", *Phys. Rev. B* 101 (2020) 094431, [doi:10.1103/PhysRevB.101.094431](https://doi.org/10.1103/PhysRevB.101.094431)
- D. Rajan, J.M. Cain, T. Brinzari, C.F. Ferreira, N.G. Rudawski, A.C. Felts, M.W. Meisel, D.R. Talham "Light-Switchable Exchange-Coupled Magnet", *ACS Appl. Electron. Mater.* 1 (2019) 2471-2475, [doi:10.1021/acsaelm.9b00520](https://doi.org/10.1021/acsaelm.9b00520)
- T.V. Brinzari\*, D. Rajan\*, C.F. Ferreira, S.A. Stoian, P.A. Quintero, M.W. Meisel, D.R. Talham, "Light-Induced Magnetization Changes in Aggregated and Isolated Cobalt Ferrite Nanoparticles", *J. Appl. Phys.* 124 (2018) 103904, [doi:10.1063/1.5040327](https://doi.org/10.1063/1.5040327), "*Editor's Pick*" on 13 Sept 2018, \* These authors contributed equally to this work.