

Curriculum Vitae for Morten Ring Eskildsen

Address

Department of Physics
 University of Notre Dame
 Notre Dame, Indiana 46556
 Telephone: 574-631-4010
 Fax: 574-631-5952
 Email: eskildsen@nd.edu

Personal

Citizenship Danish

Education

| | | |
|-------|-------------------------------------------------------------------|------|
| B.Sc. | University of Copenhagen, Denmark | 1992 |
| M.Sc. | University of Copenhagen, Denmark | 1994 |
| Ph.D. | Risø National Laboratory and University of Copenhagen, Denmark | 1998 |

Positions

| | |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 2009 | Associate Professor Physics Department, University of Notre Dame, Notre Dame, Indiana |
| 2003 – 2009 | Assistant Professor Physics Department, University of Notre Dame, Notre Dame, Indiana |
| 2000 – 2003 | Postdoctoral Research Assistant Département de Physique de la Matière Condensée, Université de Genève, Switzerland |
| 1998 – 2000 | Postdoctoral Research Assistant Condensed Matter Physics and Chemistry Department, Risø National Laboratory, Roskilde, Denmark |

Honors, Awards, and Professional Society Memberships

| | |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Recipient | Alfred P. Sloan Research Fellowship, 2005 - 2009 |
| Member | American Physical Society, Danish Neutron Scattering Society, Danish Physical Society, The Neutron Scattering Society of America, The Swiss Neutron Scattering Society |

Referee Journal of Applied Physics and Applied Physics Letters, Physica C,
Physical Review, European Physical Journal B, Europhysics Letters,
Physical Review Letters, Nature Physics

Reviewed Publications

1. “Microscopic coexistence of magnetism and superconductivity in $\text{ErNi}_2\text{B}_2\text{C}$,” U. Yaron, P.L. Gammel, A.P. Ramirez, D.A. Huse, D.J. Bishop, A.I. Goldman, C. Stassis, P.C. Canfield, K. Mortensen, and M.R. Eskildsen, *Nature* **382**, 236-238 (1996).
2. “Surface acoustic waves and the magnetoconductivity of a two-dimensional electron gas,” M.R. Eskildsen and H. Smith, *J. Phys.: Condens. Matter* **8**, 6597-6605 (1996).
3. “Observation of a Field-Driven Structural Phase Transition in the Flux Line Lattice in $\text{ErNi}_2\text{B}_2\text{C}$,” M.R. Eskildsen, P.L. Gammel, B.P. Barber, U. Yaron, A.P. Ramirez, D.A. Huse, D.J. Bishop, C. Bolle, C.M. Lieber, S. Oxx, S. Sridhar, N.H. Andersen, K. Mortensen, and P.C. Canfield, *Phys. Rev. Lett.* **778**, 1968-1971 (1997).
4. “Structural Stability of the Square Flux Line Lattice in $\text{YNi}_2\text{B}_2\text{C}$ and $\text{LuNi}_2\text{B}_2\text{C}$ Studied with Small Angle Neutron Scattering,” M.R. Eskildsen, P.L. Gammel, B.P. Barber, A.P. Ramirez, D.J. Bishop, N.H. Andersen, K. Mortensen, C.A. Bolle, C.M. Lieber, and P.C. Canfield, *Phys. Rev. Lett.* **79**, 487-490 (1997).
5. “Compound refractive optics for the imaging and focusing of long wavelength neutrons,” M.R. Eskildsen, P.L. Gammel, E.D. Isaacs, C. Detlefs, K. Mortensen, and D.J. Bishop, *Nature* **391**, 563-566 (1998).
6. “Structure and Correlations of the Flux Line Lattice in Crystalline Nb Through the Regime of the Peak Effect,” P.L. Gammel, U. Yaron, A.P. Ramirez, D.J. Bishop, A.M. Chang, R. Ruel, L.N. Pfeiffer, E. Bucher, G. D’Anna, D.A. Huse, K. Mortensen, M.R. Eskildsen, and P.H. Kes, *Phys. Rev. Lett.* **80**, 833-836 (1998).
7. “Intertwined symmetry of the magnetic modulation and the flux line lattice in the superconducting state of $\text{TmNi}_2\text{B}_2\text{C}$,” M.R. Eskildsen, K. Harada, P.L. Gammel, A.B. Abrahamsen, N.H. Anderson, G. Ernst, A.P. Ramirez, D.J. Bishop, K. Mortensen, D.R. Naugle, K.D.D. Rathnayaka, and P.C. Canfield, *Nature* **393**, 242-245 (1998).
8. “Square to hexagonal symmetry transition of the flux line lattice in $\text{YNi}_2\text{B}_2\text{C}$ for different field orientations,” M.R. Eskildsen, P.L. Gammel, B.P. Barber, A.P. Ramirez, D.J. Bishop, N.H. Andersen, K. Mortensen, and P.C. Canfield, *Physics B* **241-243**, 811-813 (1998) (Proceedings of the International Conference on Neutron Scattering, Toronto, 17-21 August 1997).
9. “Effects of Magnetic Order on the Critical Fields in the Superconducting State of $\text{ErNi}_2\text{B}_2\text{C}$,” P.L. Gammel, B.P. Barber, A.P. Ramirez, C.M. Varma, D.J. Bishop, P.C. Canfield, V.G. Kogan, M.R. Eskildsen, N.H. Andersen, K. Mortensen, and K. Harada, *Phys. Rev. Lett.* **82**, 1756-1759 (1999).

10. "Hysteresis in the Field Induced Magnetic Structure in $\text{TmNi}_2\text{B}_2\text{C}$," M.R. Eskildsen, K. Harada, P.L. Gammel, N.H. Andersen, G. Ernst, A.P. Ramirez, D.J. Bishop, K. Mortensen, and P.C. Canfield, *Physics B* **259-261**, 582 (1999) (Proceedings of the International Conference on Strongly Correlated Electron Systems, Paris, 15-18 July 1998).
11. "Systematic Studies of the Square-Hexagonal Flux Line Lattice Transition in $\text{Lu}(\text{Ni}_{1-x}\text{Co}_x)_2\text{B}_2\text{C}$: The Role of Nonlocality," P.L. Gammel, D.J. Bishop, M.R. Eskildsen, K. Mortensen, N.H. Andersen, I.R. Fisher, K.O. Cheon, P.C. Canfield, and V.G. Kogan, *Phys. Rev. Lett.* **82**, 4082-4085 (1999).
12. "Interwoven magnetic and flux line structures in single crystal $(\text{Tm,Er})\text{Ni}_2\text{B}_2\text{C}$," P.L. Gammel, D. Lopez, D.J. Bishop, M.R. Eskildsen, N.H. Andersen, K. Mortensen, I.R. Fisher, K.O. Cheon, and P.C. Canfield, *Appl. Phys.* **87**, 5544-5548 (2000) (Proceedings of the 44th Annual Conference on Magnetism and Magnetic Materials, San Jose, 15-18 November 1999).
13. "Non-locality and the flux line lattice square to hexagonal symmetry transition in the borocarbide superconductors," M.R. Eskildsen, I.R. Fisher, P.L. Gammel, D.J. Bishop, N.H. Andersen, K. Mortensen, and P.C. Canfield, *Physics C* **332**, 320-326 (2000) (Proceedings of the First Euroconference on Vortex Matter in Superconductors, Crete, 18-24 September 1999).
14. "Interdependence of Magnetism and Superconductivity in the Borocarbide $\text{TmNi}_2\text{B}_2\text{C}$," K. Nørgaard, M.R. Eskildsen, N.H. Andersen, J. Jensen, P. Hedegård, S.N. Klausen, and P.C. Canfield, *Phys. Rev. Lett.* **84**, 4982-4985 (2000).
15. "Flux Line Lattice Symmetries in the Borocarbide Superconductors," M.R. Eskildsen, P.L. Gammel, D.J. Bishop, N.H. Andersen, K. Mortensen, I.R. Fisher, and P.C. Canfield, in Magnetic and Superconducting Materials, edited by M. Akhavan, J. Jensen, and K. Kitazawa, p. 433-446 (World Scientific Publishing Co., Singapore, 2000) (Proceedings of the First Regional Conference on Magnetism and Superconducting Materials, Tehran, 27-30 September 1999).
16. "Flux Line Lattice Reorientation in the Borocarbide Superconductors with $\text{H} \parallel \text{a}$," M.R. Eskildsen, A.B. Abrahamsen, D. López, P.L. Gammel, D.J. Bishop, K. Mortensen, N.H. Andersen, and P.C. Canfield, *Phys. Rev. Lett.* **86**, 320-323 (2001).

17. "Flux line lattice symmetry transitions in the borocarbide superconductors," P.L. Gammel, D. López, D.J. Bishop, M.R. Eskildsen, A.B. Abrahamsen, N.H. Andersen, K. Mortensen, I.R. Fisher, and P.C. Canfield, in Rare-Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, edited by K.-H. Müller and V. Narozhnyi, p. 313-322 (Kluwer Academic Publishers, 2001) (Proceedings of the NATO Advanced Research Workshop: Rare-Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 14-17 June 2000).
18. "Neutron scattering studies of the flux line lattice and magnetic ordering in $\text{TmNi}_2\text{B}_2\text{C}$," M.R. Eskildsen, K. Nørgaard, A.B. Abrahamsen, N.H. Andersen, K. Mortensen, P.L. Gammel, D. López, D.J. Bishop, P. Vorderwisch, M. Meissner, and P.C. Canfield, in Rare-Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, edited by K.-H. Müller and V. Narozhnyi, p. 333-340 (Kluwer Academic Publishers, 2001) (Proceedings of the NATO Advanced Research Workshop: Rare-Earth Transition Metal Borocarbides (Nitrides): Superconducting, Magnetic and Normal State Properties, Dresden, 14-17 June 2000).
19. "Temperature Dependence of the Flux Line Lattice Transition into Square Symmetry in Superconducting $\text{LuNi}_2\text{B}_2\text{C}$," M.R. Eskildsen, A.B. Abrahamsen, V.G. Kogan, P.L. Gammel, K. Mortensen, N.H. Andersen, and P.C. Canfield, *Phys. Rev. Lett.* **86**, 5148-5151 (2001).
20. "Flux line lattice symmetries in the borocarbide superconductor $\text{LuNi}_2\text{B}_2\text{C}$," M.R. Eskildsen, A.B. Abrahamsen, P.L. Gammel, D.J. Bishop, N.H. Andersen, K. Mortensen, and P.C. Canfield, *PRAMANA – journal of physics* **58**, 903-905 (2002) (Proceedings of the International Symposium on Advances in Superconductivity & Magnetism: Materials, Mechanisms & Devices, Mangalore, 25-28 September 2001).
21. "Vortex Imaging in the π Band of Magnesium Diboride," M.R. Eskildsen, M. Kugler, S. Tanaka, J. Jun, S.M. Kazakov, J. Karpinski and Ø. Fischer, *Phys. Rev. Lett.* **89**, 187003 (2002).
22. " MgB_2 single crystals: high pressure growth and physical properties," J. Karpinski, M. Angst, J. Jun, S.M. Kazakov, R. Puzniak, A. Wisniewski, J. Roos, H. Keller, A. Perucchi, L. Degiorgi, M.R. Eskildsen, P. Bordet, L. Vinnikov, and A. Mironov, *Supercond. Sci. Technol.* **16**, 221-230 (2003) (Proceedings of BOROMAG: Superconductivity in Magnesium Diboride and Related Materials, Genova, 17-19 June 2002).
23. "Scanning Tunneling Spectroscopy on Single Crystal MgB_2 ," M.R. Eskildsen, M. Kugler, G. Levy, S. Tanaka, J. Jun, S.M. Kazakov, J. Karpinski and Ø. Fischer, *Physica C* **385**, 169-176 (2003).
24. "Hexagonal and Square Flux Line Lattices in CeCoIn_5 ," M.R. Eskildsen, C.D. Dewhurst, B.W. Hoogenboom, C. Petrovic and P.C. Canfield, *Phys. Rev. Lett.* **90**, 187001 (2003).

25. "Specific heat of ceramic and single crystal MgB_2 ," A. Junod, Y. Wang, F. Bouquet, I. Sheikin, P. Toulemonde, M.R. Eskildsen, M. Eisterer, H.W. Weber, S. Lee and S. Tajima, *Physica C* **388-389**, 107-108 (2003) (Proceedings of The 23rd International Conference on Low Temperature Physics, Hiroshima, 20-27 August 2002).
26. "Vortex lattice imaging in single crystal MgB_2 by scanning tunneling spectroscopy," M.R. Eskildsen, M. Kugler, G. Levy, S. Tanaka, J. Jun, S. M. Kazakov, J. Karpinski and Ø. Fischer, *Physica C* **388-389**, 143-144 (2003) (Proceedings of The 23rd International Conference on Low Temperature Physics, Hiroshima, 20-27 August 2002).
27. "Effects of Two-Band Superconductivity on the Flux-Line Lattice in Magnesium Diboride," R. Cubitt, M.R. Eskildsen, C.D. Dewhurst, J. Jun, S.M. Kazakov and J. Karpinski, *Phys. Rev. Lett.* **91**, 047002 (2003).
28. "Vortex Imaging in Magnesium Diboride with $\mathbf{H} \perp \mathbf{c}$," M.R. Eskildsen, N. Jenkins, G. Levy, M. Kugler, Ø. Fischer, J. Jun, S.M. Kazakov and J. Karpinski, *Phys. Rev. B* **68**, 100508(R) (2003).
29. "Field-induced magnetic phases in the normal and superconducting states of $\text{ErNi}_2\text{B}_2\text{C}$," A. Jensen, K. Nørgaard Toft, A.B. Abrahamsen, D.F. McMorrow, M.R. Eskildsen, N.H. Andersen, J. Jensen, P. Hedegård, J. Klenke, S. Danilkin, K. Prokes, V. Sikolenko, P. Smeibidl, S.L. Bud'ko and P.C. Canfield, *Phys. Rev. B* **69**, 104527 (2004).
30. "Vortex lattice reorientation and anisotropy in MgB_2 – effects of two-band superconductivity," C.D. Dewhurst, R. Cubitt, M.R. Eskildsen, J. Jun, S.M. Kazakov, and J. Karpinski, *Physica C* **404**, 135-139 (2004).
31. "Neutron diffraction study of anomalous high-field magnetic phase in $\text{TmNi}_2\text{B}_2\text{C}$," K. Nørgaard Toft, A.B. Abrahamsen, M.R. Eskildsen, K. Lefmann, and N.H. Andersen, *Phys. Rev. B* **69**, 214507 (2004).
32. "Magnetic phase diagram of $\text{ErNi}_2\text{B}_2\text{C}$," A. Jensen, K. Nørgaard Toft, A.B. Abrahamsen, N.H. Andersen, J. Jensen, P. Hedegård, J. Klenke, K. Prokes, P. Smeibidl, S. Danilkin, V. Sikolenko, M.R. Eskildsen, and P.C. Canfield, *Physica C* **408-410**, 97-99 (2004).
33. "dHvA oscillations, upper critical field and the peak effect studies in a single crystal of $\text{LuNi}_2\text{B}_2\text{C}$," D. Jaiswal-Nagar, A.D. Thakur, M.R. Eskildsen, P.C. Canfield, S.M. Yusuf, S. Ramakrishnan, and A.K. Grover, *Physica B* **359-361**, 476-478 (2005).
34. "Vortex phase diagram studies in the weakly pinned single crystals of $\text{YNi}_2\text{B}_2\text{C}$ and $\text{LuNi}_2\text{B}_2\text{C}$," D. Jaiswal-Nagar, D. Pal, M.R. Eskildsen, P.C. Canfield, H. Takeya, S. Ramakrishnan, and A.K. Grover, *PRAMANA – journal of physics* **66**, 113-129 (2006).
35. "Measuring the penetration depth anisotropy in MgB_2 using small-angle neutron scattering," D. Pal, L. DeBeer-Schmitt, T. Bera, R. Cubitt, C.D. Dewhurst, J. Jun, N.D. Zhigadlo, J. Karpinski, V.G. Kogan, and M.R. Eskildsen, *Phys. Rev. B* **73**, 012513 (2006).

36. "Penetration depth anisotropy in MgB₂ single crystals and powders," R. Cubitt, C.D. Dewhurst, M.R. Eskildsen, S.J. Levett, A. Matadeen, J. Jun, S.M. Kazakov, J. Karpinski, S.L. Bud'ko, N.E. Anderson, and P.C. Canfield, *J. of Phys. and Chem. of Solids* **67**, 493-496 (2006).
37. "Magnetic-field-induced orientation of superconducting MgB₂ crystallites determined by x-ray diffraction," J. Li, D. Vaknin, S.L. Bud'ko, P.C. Canfield, D. Pal, M.R. Eskildsen, Z. Islam, and V.G. Kogan, *Phys. Rev. B* **74**, 064502 (2006).
38. "Field Dependent Coherence Length in the Superclean High- κ Superconductor CeCoIn₅," L. DeBeer-Schmitt, C.D. Dewhurst, B.W. Hoogenboom, C. Petrovic, and M.R. Eskildsen, *Phys. Rev. Lett.* **97**, 127001 (2006).
39. "Small-angle neutron scattering measurements of the vortex lattice in CaC₆," R. Cubitt, J.S. White, M. Laver, M.R. Eskildsen, C.D. Dewhurst, D. McK. Paul, A.J. Crichton, M. Ellerby, C. Howard, Z. Kurban, and F. Norris, *Phys. Rev. B* **75**, 140516(R) (2007).
40. "Pauli Paramagnetic Effects on Vortices in Superconducting TmNi₂B₂C," L. DeBeer-Schmitt, M.R. Eskildsen, M. Ichioka, K. Machida, N. Jenkins, C.D. Dewhurst, A.B. Abrahamsen, S.L. Bud'ko, and P.C. Canfield, *Phys. Rev. Lett.* **99**, 167001 (2007).
41. "Superconducting Vortices in CeCoIn₅: Toward the Pauli-Limiting Field," Andrea D. Bianchi, Michel Kenzelmann, Lisa DeBeer-Schmitt, Jon S. White, Edward M. Forgan, Joel Mesot, Markus Zolliker, Joachim Kohlbrecher, Roman Movshovich, Eric. D. Bauer, John L. Sarrao, Zachary Fisk, Cedimir Petrović, Morten Ring Eskildsen, *Science* **319**, 177-180 (2008).
42. "Vortices in superconducting Ba(Fe_{0.93}Co_{0.07})₂As₂ studied via small-angle neutron scattering and Bitter decoration", M.R. Eskildsen, L. Ya. Vinnikov, T.D. Blasius, I.S. Veshchunov, T.M. Artemova, J.M. Densmore, C.D. Dewhurst, N. Ni, A. Kreyssig, S.L. Bud'ko, P.C. Canfield, and A.I. Goldman, *Phys. Rev. B* **79**, 100501(R) (2009).
43. "Vortex imaging in Co-doped BaFe₂As₂", M.R. Eskildsen, L. Ya. Vinnikov, I.S. Veshchunov, T.M. Artemova, T.D. Blasius, J.M. Densmore, C.D. Dewhurst, N. Ni, A. Kreyssig, S.L. Bud'ko, P.C. Canfield, and A.I. Goldman, *Physica C* **469**, 529 (2009).
44. "Small-angle neutron scattering study of the vortex lattice in superconducting LuNi₂B₂C", J.M. Densmore, P. Das, K. Rovira, T. Blasius, L. DeBeer-Schmitt, N. Jenkins, C.D. Dewhurst, S.L. Bud'ko, P.C. Canfield, and M.R. Eskildsen, *Phys. Rev. B.* **79**, 174522 (2009).

Non-Refereed and/or Popular Publications

1. "Quasiparticles and the quantum Hall effect," M.R. Eskildsen, M. Sc. Thesis, University of Copenhagen, Denmark (1994).
2. "Optik til neutronstråler," M.R. Eskildsen, *Risø Nyt* **3**, 11 (1998). In Danish.
3. "Small Angle Neutron Scattering Studies of the Flux Line Lattice in the Borocarbide Superconductors," M.R. Eskildsen, Ph.D. thesis, Risø-R-1084(EN), Risø National Laboratory, Denmark (1998).
(URL address: <http://www.risoe.dk/rispub/FYS/ris-r-1084.htm>)
4. "Præsentation af ph. d. project," M.R. Eskildsen, *Forskerakademiet* (1999). In Danish.
5. "Flux Line Lattice Symmetries and Magnetism in $TmNi_2B_2C$," M.R. Eskildsen, P.L. Gammel, D.J. Bishop, N.H. Andersen, K. Mortensen, and P.C. Canfield, (Proceedings of the HERCULES X Euroconference, Grenoble, 6-9 April 2000).
6. "Eksotiske hvirvler – Fluxliniegitteret I magnetiske superledere," M.R. Eskildsen and N.H. Andersen, *KVANT* **11** no. 4, 3-11 (2000). In Danish.
7. "Vortex Imaging in Magnesium Diboride," M.R. Eskildsen, *MaNEP newsletter* no. 3 (2002).
8. "Nobelpriz for superledning," M.R. Eskildsen and P. Hedegård, *KVANT* **14** (4), 7-9 (2003). In Danish.
9. "MgB₂: superconductivity with a dual personality," R. Cubitt, C.D. Dewhurst, M.R. Eskildsen, J. Jun, S.M. Kazakov and J. Karpinski, *Institut Laue-Langevin 2003 Annual Report*, p. 21-22.
10. "Novel vortex structure in superconductors," M. Kenzelmann, J. Mesot, J. Kohlbrecher, M. Zolliker, A.D. Bianchi, Z. Fisk, L. DeBeer-Schmitt, M.R. Eskildsen, J.S. White, E.M. Forgan, R. Movshovich, E.D. Bauer, J.L. Sarrao, C. Petrovic, *Paul Scherrer Institut 2007 Scientific Report*, p. 24-25 (research highlight).
11. "Pauli Paramagnetic Effects on Vortices in Superconducting $TmNi_2B_2C$," M.R. Eskildsen, L. DeBeer-Schmitt, N. Jenkins, C.D. Dewhurst, M. Ichioka, K. Machida, S.L. Bud'ko, and P.C. Canfield, *Institut Laue-Langevin 2007 Annual Report*, p. 16-17 (scientific highlight).

Talks (since 2003)

1. “Two Superconductors in One Package – The Story of Magnesium Diboride,” 2/12/03
Colloquium at University of Notre Dame, Indiana.
2. “Hexagonal and Square Flux Line Lattices in CeCoIn₅,” 3/6/03
Contributed talk at the “APS March Meeting,” Austin, Texas, March 3-7, 2003.
3. “Vortex Imaging in Magnesium Diboride,” 3/7/03
Invited talk at the “APS March Meeting,” Austin, Texas, March 3-7, 2003.
4. “Vortex and vortex-lattice studies in Magnesium Diboride”, 3/20/03
Contributed talk at the “2003 annual meeting of the Swiss Physical Society,” Basel, Switzerland, March 20-21, 2003.
5. “Vortex Studies in Magnesium Diboride,” 4/10/03
Seminar at ETH Zürich, Switzerland.
6. “Vortex and vortex-lattice studies in Magnesium Diboride,” 4/28/03
Invited talk at Minerva School, Blaubeuren, Germany, April 27 – May 1, 2003.
7. “STM imaging of vortices in MgB₂,” 5/28/03
Invited talk at the “M2S-HTSC – Seventh International Conference on Materials and Mechanisms of Superconductivity and High Temperature Superconductors,” Rio de Janeiro, Brazil, May 25-30, 2003.
8. “Vortex Studies in Magnesium Diboride: Effects of Doping and Anisotropy,” 6/24/03
Invited talk at the “9th International Workshop on Vortex Matter/ESF Workshop on Vortex Dynamics,” Oléron, France, June 22-27, 2003.
9. “Vortex Studies in Magnesium Diboride: Effects of Doping and Anisotropy,” 7/3/03
Invited talk at the workshop “Open questions in understanding the superconducting and normal-state properties of MgB₂,” Rome, Italy, July 2-4, 2003.
10. “Vortex studies in Magnesium Diboride: Effects of Doping and Anisotropy,” 9/30/03
Invited talk at the “2003 Swiss Workshop on Materials with Novel Electronic Properties,” Les Diablerets, Switzerland, Sept. 29 – Oct. 1, 2003.
11. “Two Superconductors in One Package – The Story of Magnesium Diboride,” 10/9/03
Colloquium at Indiana UIPUI, Indianapolis.
12. “Flux-Line Lattice Studies by Small-Angle Neutron Scattering,” 11/6/03
Seminar at IPNS, Argonne National Laboratory, Argonne.
13. “Two Superconductors in One Package – The Story of Magnesium Diboride,” 5/20/04
Seminar at Northwestern University, Evanston, IL.

14. “Vortex Lattice Anisotropy in Magnesium Diboride,” 11/26/2004
Invited Talk at “CTC-NES/PLASMA 2004 – Joint Meeting of the International Symposium on JSPS Core-to-Core Integrated Action Initiative “Nanoscience and Engineering in Superconductivity” and “The 4th International Symposium on Intrinsic Josephson Effect and Plasma Oscillations in High-Tc Superconductors.”
15. “Two Superconductors in One Package – The story of Magnesium Diboride,” 12/20/2004
Seminar at the Danish Technical University, Lyngby, Denmark.
16. “Vortex Lattice Anisotropy in Magnesium Diboride,” 1/10-14/2005
Invited Talk at “IVW-10 – Xth International Vortex State Studies Workshop, Bombay, India.
17. “Two Superconductors in One Package – The story of Magnesium Diboride,” 3/10/2005
Seminar at Brookhaven National Laboratory, Upton, NY.
18. “Anomalous Field Dependence of the Flux-Line Lattice Form Factor in CeCoIn₅,” 9/20-23/2005
Invited Talk at the US-Spain Workshop on Nanoscale Materials, Segovia, Spain.
19. “Exotic Twisters – Vortices in Unconventional Superconductors, 11/8/2005
Seminar at Wayne State University, Detroit, MI.
20. “High-Field Vortex Studies in Superconductors - New Possibilities using X-Ray Scattering,” 6/8/2006
Invited Talk at “Workshop on Science Opportunities using X-Rays and Split Gap High-Field Magnets,” Argonne National Laboratory, IL.
21. “Field Dependent Coherence Length in the Superclean, high-kappa Superconductor CeCoIn₅,” 6/19/2006
Invited Talk at “2006 American Conference on Neutron Scattering,” St. Charles, IL.
22. “Field Dependent Coherence Length in the Superclean, high-κ Superconductor CeCoIn₅,” 7/6/2006
Invited Talk at “Vortex Wroclaw 2006 - The 11th International Workshop on Vortex Matter,” Wroclaw, Poland.
23. “Field Dependent Coherence Length in the Superclean, high-? Superconductor CeCoIn₅,” 8/29/2006
Invited Talk at the “International Conference on Mesoscopic Superconductivity and Magnetism,” Chicago, IL.
24. “Vortices and the Fate of the Fundamental Length Scales in Superconductors,” 2/15/2007
Colloquium presented at Iowa State University/Ames Laboratory, Ames, IA.
25. “Vortex studies in CeCoIn₅,” 5/17/2007
Invited Talk at the “2007 Conference on Strongly Correlated Electron Systems (SCES’07),” Houston, TX

26. "Vortex studies in CeCoIn₅," 5/29/2007
Seminar presented at the Materials Science Division, Argonne National Laboratory, Argonne, IL
27. "Vortex studies in CeCoIn₅," 6/20/2007
Invited Talk presented at the "2007 Annual Meeting of the Danish Physical Society," Nyborg, Denmark.
28. "Vortex studies in Ce CoIn₅," 6/26/2007
Invited Talk presented at the "SINQ User Meeting" held as a special session at the "4th European Conference on Neutron Scattering," Lund, Sweden
29. "Pauli Paramagnetic Effect on Vortices in Superconducting TmNi₂B₂C," 6/26/2007
Poster presented at the "4th European Conference on Neutron Scattering," Lund, Sweden
30. "Vortex Studies in Superconducting CeCoIn₅," 7/12/2007
Colloquium presented at University of Wisconsin – Milwaukee, Milwaukee, WI
31. "Vortex Studies in Superconducting CeCoIn₅," 8/13/2007
Seminar presented at the NIST Center for Neutron Research, Gaithersburg, MD
32. "Superconducting Vortices in CeCoIn₅: Beyond the Abrikosov-Ginzburg-Landau Paradigm," 9/24/2007
Colloquium presented at Western Michigan University, Kalamazoo, MI
33. "Superconducting Vortices in CeCoIn₅: Beyond the Abrikosov-Ginzburg-Landau Paradigm," 10/18/2007
Seminar presented at Northwestern University, Evanston, IL
34. "Anisotropy of the Vortex Magnetic Field Distribution in LuNi₂B₂C," 3/11/2008
Talk presented at the 2008 March Meeting of the American Physical Society, New Orleans, LA.
35. "Exotic Twisters: Vortices in Superconductors," 3/20/2008
Seminar presented at Indiana University at South Bend, South Bend, IN.
36. "Superconducting Vortices in CeCoIn₅: Beyond the Abrikosov-Ginzburg-Landau Paradigm," 3/26/2008
Seminar presented at Johns Hopkins University, Baltimore, MD.
37. "What can be learned from vortex lattice symmetries - A cautionary tale," 10/19/2009
Seminar at the University of Birmingham, U.K.