CURRICULUM VITAE OF
NAUSHAD ALI
Department of Physics

I. PERSONAL

A. Date of Birth: March 10, 1953
B. Present Home Address: 104 N. Lark Lane, Carbondale, IL 62901
C. Present University Department or Unit: Physics

II. EDUCATION

Ph.D. Experimental Solid State Physics, University of Alberta, Canada, Nov. 1984
M.S. Physics, Memorial University of Newfoundland, Canada, 1978
M.Sc. Physics, Aligarh University, India, 1975. First Class.
B.Sc. (Hons) Physics, Aligarh University, India, 1973. First Class.

III. PROFESSIONAL EXPERIENCE

July 1993-Present Professor, Dept. of Physics, SIUC.
May 1990-June 1993 Associate Professor, Dept. of Physics, SIUC.
Aug. 1986-Aug. 1990 Assistant Professor, Dept. of Physics, SIUC.
Jan. 1985-July 1986 Post-doctoral Fellow, Dept. of Physics, McMaster University, Hamilton, Ontario, Canada.

IV. AWARDS AND HONORS

Canadian National Postdoctoral Fellowship, NRC Canada, 1986.
Graduate Scholarship, Memorial Univ. of Newfoundland, Canada. 1976-78.
Post-Graduate Research Scholarship, Indian Institute of Technology, Delhi, India. 1975-76.
Post-Graduate Merit Scholarship, Aligarh Univ., India. 1973-75.
Visiting Fellowship at the Chalk River Nuclear Laboratories, Atomic Energy of Canada in Chalk River, 1986 (Accepted faculty position at SIUC instead.)
Nominated and selected for American Men and Women of Science (1991)

V. UNIVERSITY SERVICE

DEPARTMENTAL COMMITTEES

I am the organizer of the colloquium/seminar in the department. Setting up of seminars is basically my responsibility. Since fall, 1986, I have been able to start a regular seminar in physics with major emphasis in solid state physics. We are very pleased with the outcome of this seminar series. A point to note is that we have had active participation from graduate students.

1. Member Seminar/Colloquium Committee, Fall 1986 and Spring 1987.
2. Member Seminar/Colloquium Committee, Fall 1987 and Spring 1988.
3. Member of Undergraduate Committee, Spring 1987.
4. Judge, Illinois Junior Academy of Science Fair, Spring 1987.
5. Helped with 1987 Annual Telefund.
6. Graduation Ceremonies: Spring 1988, Spring 1990, and Spring 1991
7. Member Graduate Committee, Fall 1988 and Spring 1989.
8. In charge of Seminar FY '90, FY '91, and FY '92..
9. In charge of Colloquium FY '90 and FY '91.
10. Member Undergraduate Committee FY '93 (Fall)
11. Many Departmental Search Committees
12. Graduate Committee
13. Departmental Personnel Committee

COLLEGE AND UNIVERSITY COMMITTEES

1. College of Science Curriculum Committee FY '92 and FY '93.
2. Molecular Science Executive Committee FY '92 and FY '93.
3. Doctoral Dissertation Award Committee (4 years)
4. College Personnel Committee (3 years)
5. ORDA Research Committee (6 years)

VI. TEACHING EFFORT

Courses Taught Over the Years

PHYS 100, PHYS 101
PHYS 203A, PHYS 203B
PHYS 253A, PHYS 253B
PHYS 205C, PHYS 255C
PHYS 425, PHYS 470
PHYS 575, PHYS 565
PHYS 600, PHYS 599

Other Teaching Efforts

Developed a senior level laboratory course: Applied Solid State and Materials Science Lab. This project is waiting for resources.

Enhanced the Modern Physics Laboratory (Physics 255C).

VII. PROFESSIONAL SERVICE

1. Member of American Physical Society
2. Reviewed 10 chapters of "College Physics" by Paul A. Tipler, Worth Publ., Dec. 1986
3. Referee to Journal of Applied Physics
4. Referee to Canadian Journal of Physics
5. Referee to J. Industrial and Engineering Chemistry Research
6. Session chair, 37th Conf. on Magnetism and Magnetic Materials (1992)

VIII. RESEARCH

Research Interests

Magnetism
Superconductivity
Electrorheology

Current Research Projects

1. Re-entrant magnetic phase transitions in systems such as $Ce(Fe_{1-x}M_x)_2$ where M = Al, Co, Ru, etc.
2. Magnetism in quasi-one dimensional and two dimensional systems
3. Study of multicritical points in magnetic phase diagrams using a system such as Ce-Mn-Ge-Si
4. Electrorheology and solid-gas fluidization using superconducting materials

5a. Determination of magnetic structure in $Ce(Fe_{1-x}M_x)_2$ (where M = Al, Co, Ru, etc.) using small angle neutron scattering at Chalk River National Laboratory and McMaster University in Canada

5b. Neutron scattering studies on the Ce-Mn-Ge-Si and Er-Ga-Co systems at Oak Ridge National Laboratory in Tennesee

6. Patterning of high-T_c superconducting thick films and the development of infra-red detectors from high-T_c materials
7. Enrichment of phases of high-T_c superconductors by magnetic separation

Research Grants

1. "Study of Electrical and Magnetic Properties of Rare Earth compounds", Special esearch award, ORDA, SIUC, FY 1987, $9448.
2. "A Mini-Sabbatical to Aid Research", ORDA, SIUC, Summer 1987, $1000. This award was given to help set up a capacitance dilatometer for thermal expansion measurements which we successfully achieved.
3. "Summer Research Fellowship", ORDA, SIUC, Summer 1987, $3,111 (one month summer salary).
4. "Characterization of Carbon Composites", Materials Technology Center, SIUC, January 1988 - July 1988, $19,250.
   Equipment fund to buy high temperature oven of SQUID Magnetometer.
5. "Study of the Evolution of Mn Magnetic Moment in RMn_2 and $(Y_{1-x}Ce_x)Mn_2$ Systems", Materials Technology Center, SIUC, August 1988 - July 1989, $21,827.
6. Special Research Award, ORDA, SIUC, FY 1988, $10,216.
7. Special Research Award, ORDA, SIUC, FY 1989, $10,150.51.
8. Special Research Award, ORDA, SIUC, FY 1990, $ 9,458.02.
9. MTC-SIUC, July 89-June 90. $20,000.

10. (with S. Lalvani) "Electrodeposition of Thin Films of High T_c Y-Ba-Cu-O Superconductors." Illinois Dept. of Energy, 1989, $25,000.
11. (with R. Tao) "Electrorheolgy" MTC-SIUC, July 90-June 91, $30,000.
12. (with R. Tao) "New Electro-Rheology Fluid from Superconductors" IDENR, April 1990 - April 1991, $40,000 and MTC, SIUC, matching $15,000.
13. (with S. Lalvani) "Electrodeposition of High T_c Superconductor" IDENR, April 1990 - April 1991, $40,000 and MTC, SIUC, matching $15,000.
14. Equipment Funds to purchase a susceptometer, Vice-President's Office, SIUC, FY 1991, $31,500.
15. "High Temperature Superconductivity Research," ORDA-SIUC, July 1991 - June 1992, $7,848.
16. (with R. Tao) "New Electro-Rheology Fluid From Superconductors," IDENR, May 1991 - Aug. 1992, $50,000 and MTC, SIUC, matching $5,000.
17. (with S. Lalvani) "Electrodeposition of High T_c Superconductor," IDENR, May 1991 - Aug. 1992, $50,000, and MTC, SIUC, Matching $5,000.
18. Extension to Sabbatical leave, ORDA, SIUC, summer salary 1993.
19. (with S. Dhali) "Enrichment of Phases of High-T_c Superconductors by Magnetic Separation" IDENR, February 1992 -August 1993, $55,000; MTC, SIUC, Matching $5,000; College of Science, SIUC, matching $5,000, and College of Engineering, SIUC, matching $15,000.
20. Giant Magnetoresistance in Granular Thin Film Alloys, MTC, July 1993-June 1995; $44,230.
21. Summer Undergraduate Research Program, SIUC, $30,000, 1993 and 1994.
22. Extension to Sabbatical Leave, ORDA, Summer Salary, 1993.
23. Investigation of New Geo-Physical Technique for Direct Detection and Monitoring of Subsurface Contaminant Leakage" UPIIP, ORDA, January to June,1995, $6000 (with Dr. D. Ravat, Department of Geology).
24. Investigation of a New Geo-Physical Technique for Direct Detection and Monitoring of Subsurface Contaminant Leakage, UPIIP, ORDA, 15 December 1995 to 30 June 1996, $6000.00 with Dr. D. Ravat, Department of Geology.
25. Magnetoresistive Sensor Development, Special Research Award, ORDA, July 1995 to June 1997, $21,000.00.
26. X.-ray Magnetic Scattering Study, UC-NWU-IHE, September 1995 to August 1996, $33,610. MTC-Cost Share $10,000.00.
27. Summer Undergraduate Research Program, Office of the Provost, 1995, $15,000.00.
28. X-ray magnetic Scattering Study of rare earth and re-entrant magnetic system using synchrotron radiation. CARS-Univ. of Chicago, September 1, 1996 to August 31, 1997, $51,023.00.
29. X-Ray magnetic scattering study of rare earth and re-entrant magnetic system using synchrotron radiation, CARS-Univ. of Chicago September 1, 1998 to August 31, 1998, $47,270.00.
30. X-ray magnetic scattering studies using synchrotron radiation, MTC-SIUC, July 1, 1997 to June 30, 1998, $15,438.00
31. Magnetic studies of Colossal magnetoresistive Materials Using Synchrotron radiation, CARS-Univ. of Chicago, September 1998-August 1999, $110,000.00
32. (N. Ali, Co-P.I.) with Yu Galkin, E. Fawcett and Make Stiles, Properties of Bulk Chromium Alloys..." NATO-Linkage Grant #973279, 780,000 Belgian Francs, Grant administered by Univ. of Toronto, Canada.
33. Magnetic studies of colossal magnetoresistive materials using synchrotron radiation, CARS-Univ. of Chicago, September 1999 to August 2000, $110,000
34. Research Initiation in Permanent magnets, ORDA, SIUC Special Research Award, August 1999 to June 2001, $23,628.00
35. Search for Novel Permanent Magnetic Materials, Materials Technology Center, SIUC, $39,000.00 July 1999-june 2001.
36. Photoinduced Magnetization Pilot Equipment Grant, ORDA, SIUC, $5,000.00
37. Magnetic Studies of CMR materials, CARS-Univ. of Chicago, Sept. 2000-Aug.2001, $110,000.00
38. CMR and Magnetic Materials Study using synchrotron Radiation, CARS-Univ. of Chicago, Sept. 2001 - Aug. 2003, $90,000.00
39. "Understanding Ferromagnetic Shape-memory effects in Heusler alloy thin films," Shane Stadler and Naushad Ali, MTC SIUC $14,000. July 2004 - June 2005.
40. NSF: Exploring magnetocaloric effect in manganese-based alloys, $528,143, (Project Dates: July 1, 2006—June 30, 2009).
41. USDOE: Understanding compound phase transitions in new Heusler alloy colossal

magneto- caloric materials, $623,520, (Project Dates: July 1, 2006—June 31, 2010)

42. RESEARCH CORPORATION: Investigation of Giant Magnetocaloric Effect in Ni-Mn-Ga based heusler Alloys,$50000.June2006---May2008.

IX. SUPERVISION OF GRADUATE STUDENTS

A. Masters Students

X. Zhang
Margaret P. Hill
F. Willis
John Eynon
Shibaji Saha
Malika Roy
Brian Watson
Robert Baer
Michael Loenard
Jeffrey Gebhardt
Sujoy Roy
M.Khan
D. Edorh
Arjun Pattak
Bhoj Gautam

B. Ph.D. Students

Sunil Labroo
Arthur Chin
Margaret P. Hill
Xianfeng Zhang
Shibaji Saha
Sujoy Roy
Mahmud Khan
Arjun Pathak

C. Undergraduate Research Students

Chanthien T. Trinh
Patric Buller
Marc Decker
Eric Carlson
Eric Hilemma
Tod Policandriotes
Ronald Jerome
Diana Hallenbeck
Jeffrey Gebhardt
Manuel Liong
Bradley Frazer
Anita Crouse
Jeremy Scott
Aaron Cole
Mahmud Khan
Jonathan Craig
Erin condon
Jonathan Craig

D. Post Doctoral Fellow and Associates

Dr. David Marx
Dr. Alexander Ignatov
Dr. Igor Dubenko
Dr. Margaret Hill
Dr. Venkatesh Shankar
Dr. Yongquan Guo

X. RESEARCH PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. N. Ali and J. G. Alder, "Inelastic Electron Tunneling Spectroscopy of Formic Acid Chemisorbed on Various Surfaces," March Meeting, American Physical Society, 1981, Bulletin of the Am. Phys. Soc., 26, #3, 426, JP13 (1981).

2. N. Ali and S. B. Woods, "Low Temperature Electrical Resistance of Single Crystal NdB_6 and PrB_6 and Critical Scattering Near their Néel Temperature," Third Joint Intermag - Magnetism and Magnetic Materials Conf., Montreal, Canada, 1982.

3. N. Ali and S. B. Woods, "Magnetoresistance of PrB_6 and NdB_6," Canadian Association of Physicists Congress, University of Victoria, 1983, Bull. Can. Assoc. Phys., 39, #3, 46, DC3 (1983).

4. N. Ali and S. B. Woods, "Transport Properties of Dilute Reare-earth Yttrium Alloys," Canadian Association of Physicists Congress, University of Victoria, 1983, Bull. Can. Assoc. of Physicists, 39, #3, 46, DC3 (1983).

5. N. Ali and S. B. Woods, "Transport Properties of Kondo Lattice CeB_6," 30th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1984.

6. N. Ali and S. B. Woods, "Transport Properties of GdB_6 and DyB_6," Bull. Can. Assoc. of Physicists, 40, #3, 63PM17 (1984).

7. N. Ali, S. B. Woods, G. Kozlowski, and A. Rojek, "Magnetoresistance of $GdRh_{1.1}Sn_{4.2}$," Bull. Can. Assoc. of Physicists, 40, #3, 63PM18 (1984).

8. N. Ali and and W. R. Datars, "Resistivity and Hall Effect in Y_9Co_7," Bull. Amer. Phys. Soc., 31, #3, 546 (1986).

9. N. Ali and W. R. Datars, "Superconductivity and Magnetism in Lu-Rh-Sn," 17th Rare Earth Research Conference, June 1986.

10. N. Ali and W. R. Datars, "Hall Effect and Resistivity of Magnetically Ordered Heavy Fermion URu_2Si_2," 34th Midwest Solid State Conference, October 24, 1986, Appl. Phys. Comm. 7, #1Z2, 100 (1987).

11. N. Ali and S. B. Woods, "Magnetoresistance of Antiferromagnetic Metals with Localized Moments," 31st Annual Conference on Magnetism and Magnetic Materials, Baltimore, Maryland, November 1986.

12. N. Ali, W. R. Datars, C. V. Stager, and S. B. Woods, "Low Temperature Electrical and Magnetic Properties of the Apparently Simple Antiferromagnetic Metal GdB_6," Bull. Amer. Phys. Soc. 32, #3 (1987).

13. N. Ali, "Anomalous Electrical and Magnetic Properties of Gadolinium Hexaboride," 32nd Annual Conference on Magnetism and Magnetic Materials, Chicago, Illinois, November 1987.

14. N. Ali and S. Labroo*, "Electrical and Magnetic Properties of Rare Earth Disilicides," Bull. Amer. Phys. Soc. 33, #3, 271 (1988).

15. Naushad Ali, Xuesong Zhang*, Peggy Hill*, and Sunil Labroo*, "Effect of Fe and Ni Substitution in High-T_c Y-Ba-Cu-O Superconductors," 18th Rare Earth Research Conference, September 1988.

16. Naushad Ali, Peggy Hill*, Sunil Labroo*, and Xuesong Zhang*, "Electrical and Magnetic Properties of $R_2Mo_2O_7$ (R = Nd, Sm, Gd, Tb, and Y)," 18th Rare Earth Research Conference, September 1988.

17. Naushad Ali, Sunil Labroo*, Peggy Hill*, and Xuesong Zhang*, "Observation of Valence Fluctuation Phenomena in $YbSi_2$," 18th Rare Earth Research Conference, September 1988.

18. Naushad Ali, Sunil Labroo*, Xuesong Zhang*, and Peggy Hill*, "Electrical And

Magnetic Properties of Antiferromagnetic Rare Earth Disilicides," 18th Rare Earth Research Conference, September 1988.

19. Naushad Ali (with Sunil Labroo*), "Electrical, Magnetic, and Thermal Properties of RMn_2 Compounds (R = Y and Rare Earths)," 2nd Cooperative Conference on Recent Advances in Materials Research, SIUC, MTC, Carbondale, Illinois, April 1989.

20. Naushad Ali (with Sunil Labroo*), "Magnetoresistance of Rare Earth Disilicides," Bull. Amer. Phys. Soc. 34, #3, 565 (1989).

21. Naushad Ali (with Sunil Labroo* and J. E. Greedan), "Ferromagnetism and Spin Glass Behavior in Pyrochlore Compounds $_2Mo_2O_7$ (R = Nd, Sm, Gd, Tb, and Y)," Bull. Am. Phys. Soc. 34, #3, 649 (1989).

22. Naushad Ali (with Sunil Labroo*), "Magnetic and Electrical Properties of RMn_2 Compounds (R = Heavy rare earths and Y)," Bull Amer. Phys. Soc. 34, #3, 650 (1989).

23. Naushad Ali (with Frank Willis*), "Observation of 'Spin-slip' Structures in Holmium and Erbium Single Crystals," 37th Midwest Solid State Conference, Rolla, Missouri, October 13 - 14, 1989.

24. Naushad Ali (with Arthur Chin* and J. T. Masden), "Effects of Localization on the Magnetic Transition on Thin Gadolinium Wires," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

25. Naushad Ali (with Sunil Labroo* and P. Robinson), "Magnetic Properties of RMn_2 Compounds (R = Heavy Rare Earths)," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

26. Naushad Ali (with Sunil Labroo*), "Magnetism of Rare Earth Disilicides," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

27. Naushad Ali (with Frank Willis*, M. O. Steinitz, M. Kahrizi, and D. A. Tindall), "Observation of Spin Slip Structures and Splitting of the Néel Temperature of Holmium in Magnetic Fields," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

28. Naushad Ali (with Sunil Labroo* and Frank Willis*), "Influence of Mn Moments on the Properties of RMn_2 Compounds (R = Y and Light rare earths)," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

29. Naushad Ali (with D. R. Noakes, D. A. Tindall, and M. O. Steinitz), "Observation of a Commensurate Temperature Plateau Induced by a c-axis Applied Magnetic Field in Holmium," 34th Annual Conference on Magnetism and Magnetic Materials, Boston, Massachusetts, November 28 - December 1, 1989.

30. Naushad Ali and Frank Willis*, "New Magnetic Structure in the Magnetization of Ho and Er Single Crystals," Bull. Amer. Phys. Soc. 35, #3, 794 (1990).

31. Naushad Ali and John Eynon*, "Re-entrant Phase Transition in $Ce(Fe_{1-x}M_x)_2$ (M = Al, Cu, and Ni)," Bull. Amer. Phys. Soc. 35, #3, 696 (1990).

32. A. J. Weston, S. Lalvani, and Naushad Ali, "Electrodeposition of High T_c,Y-Ba-Cu-O Superconducting Films," Meeting of the Electrochemical Society, Montreal, Canada, May 1990.

33. Arthur Chin*, Naushad Ali, and J. T. Masden, "Magnetic Transition in Thin Wires of Rare Earth Metals," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

34. Peggy Hill*, Frank Willis*, and Naushad Ali, "Magnetic and Electrical Properties of the Ferromagnetic Dense Kondo Lattice System $CeSi_x$," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

35. John Eynon* and Naushad Ali, ""Magnetic and Electrical Properties of Re-entrant

$Ce(Fe_{1-x}Al_x)_2$," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

36. Naushad Ali, Frank Willis*, J. C. Holzer, and K. F. Kelton, "Magnetic Properties of Icosahedral Phase of Ti Transition Metal Alloys," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

37. D. A. Tindall, M. O. Steinitz, D. Noakes, and Naushad Ali, "Investigation of the Helimagnetic Phases of Ho in a c-axis Magnetic Field," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

38. Frank Willis* and Naushad Ali, "Evidence of c-axis Magnetic Moment in Single Crystal Dysprosium," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

39. Frank Willis* and Naushad Ali, "Magnetization and Thermal Expansion of Single Crystal Erbium and Thulium," 35th Annual Conference on Magnetism and Magnetic Materials, San Diego, California, November 1990.

40. Frank Willis*, Peggy Hill*, and Naushad Ali, "A Study of Spin-slip Structures in Single Crystal Erbium," Bull. Amer. Phys. Soc. 36, #3, 442 (1991).

41. S. Shaheen, X. Xu, Peggy Hill*, and Naushad Ali," Structural, Magnetic, and Transport Properties of the Ce-Si System," Bull. Amer. Phys. Soc. 36, #3, 557 (1991).

42. Arthur Chin*, Naushad Ali, and J. T. Masden, "Electrical Resistance of Thin Wires of Heavy Rare Earth Metals," Bull. Amer. Phys. Soc. 36, #3, 591 (1991).

43. Peggy Hill*, Xianfeng Zhang*, John Eynon*, and Naushad Ali, "Re-entrant Phase Transition in $Ce(Fe_{1-x}Al_x)_2$," Bull. Amer. Phys. Soc. 36, #3, 807 (1991).

44. Frank Willis* and Naushad Ali, "Magnetism in Single Crystal Dy below10 K," 5th Joint Magnetism and Magnetic Materials - Intermag Conference, Pittsburgh, Pennsylvania, June 18 - 21, 1991.

45. A. Weston, S. Lalvani, Frank Willis*, and Naushad Ali, "Electrodeposition of 1-2-3 Superconductor Precursor Films," 19th Rare Earth Research Conference, Lexington, Kentucky, July 14 - 19, 1991.

46. Naushad Ali, Peggy Hill*, Xianfeng Zhang*, and Frank Willis*, "Magnetization and Thermoremnant Magnetization Studies of $Tb_2Mo_2O_7$," 19th Rare Earth Research Conference, Lexington, Kentucky, July 14 - 19, 1991.

47. Frank Willis* and Naushad Ali, "Effect of Spin-slip Structures on the Resistivity of Er and Ho," 19th Rare Earth Research Conference, Lexington, Kentucky, July 14- 19, 1991.

48. Naushad Ali, "Field Induced Solidification of Electrorheological Fluids," 39th Annual Midwest Solid State Conference, Ames, Iowa, September 27 - 28, 1991.

49. A. J. Weston, Naushad Ali, and S. B. Lalvani, "Synthesis of Superconducting Films via an Electrochemical Pathway," Meeting of the Electrochemical Society, St. Louis, Missouri, May 1992.

50. Naushad Ali, Xianfeng Zhang*, and Peggy Hill*, "First Order Phase Transition from a Ferro- to Antiferromagnetic State in the $Ce(Fe_{1-x}Co_x)_2$ System," Bull. Amer. Phys. Soc. 37, #1, 325 (1992).

51. Peggy Hill* and Naushad Ali, "Investigation of the Transition from Ferromagnetic to Antiferromagnetic Order in the System $CeMn_2(Ge_xSi_{1-x})_2$," Bull. Amer. Phys. Soc. 37, #1, 133 (1992).

52. Y. S. Yang, Naushad Ali, and B. D. Gaulin, "Small Angle Neutron Scattering Studies of $Ce(Fe_{1-x}Al_x)_2$," Bull. Amer. Phys. Soc. 37, #1, 296 (1992).

53. Naushad Ali and David T. Marx$^+$, "Fabrication and Characterization of Superconducting (Bi,Pb)-Sr-Ca-Cu-O Thick Films on Sr-Ca-Cu-O Substrates," International Conference on the Physics of Transition Metals, Darmstadt, Germany, July 20 - 24, 1992.

54. Naushad Ali and Xianfeng Zhang*, "Magnetic Phase Transitions in the $Ce(Fe_{1-x}Co_x)_2$ System," International Conference on the Physics of Transition Metals, Darmstadt, Germany, July 20 - 24, 1992.

55. Naushad Ali, J. T. Masden, Peggy Hill*, and Arthur Chin*, "Magnetic Transition in Quasi- One Dimensional Wires and Thins Films of Gadolinium," International Conference on the Physics of Transition Metals, Darmstadt, Germany, July 20 - 24, 1992.

56. David T. Marx^{+} and Naushad Ali, "Fabrication and Patterning of Superconducting (Bi, Pb)-Sr-Ca-Cu-O Thick Films on Pb-Sr-Ca-Cu-O Substrates," Applied Superconductivity Conference, Chicago, Illinois, August 24 - 27, 1992.

57. Peggy Hill* and Naushad Ali, "Investigation of the Transition from Ferromagnetic to Antiferromagnetic Order in the System $CeMn_2(Ge_xSi_{1-x})_2$," 37th Annual Conference on Magnetism and Magnetic Materials, Houston, Texas, December 1 - 4, 1992.

58. Y. S. Yang, B. D. Gaulin, J. A. Fernandez-Baca, Naushad Ali, G. D. Wignall, "Small Angle Neutron Scattering Studies of $Ce(Fe_{1-x}Al_x)_2$," 37th Annual Conference on Magnetism and Magnetic Materials, Houston, Texas, December 1 - 4, 1992.

59. Xianfeng Zhang* and Naushad Ali, "Competition between Magnetocrystalline Anisotropy and Exchange Interaction in the $Ce_{1-x}Y_x(Fe_{0.8}Co_{0.2})_2$ System," 40th Annual Midwest Solid State Conference, Urbana, Illinois, October 2 - 3, 1992.

60. Shibaji Saha*, Naushad Ali, and J. T. Masden, "Magnetic Transitions in Thin Films of Heavy Rare Earth Metals," 40th Annual Midwest Solid State Conference, Urbana, Illinois, October 2 - 3, 1992.

61. Peggy Hill* and Naushad Ali, "Study of the Crossover from Ferromagnetic to Antiferromagnetic Order in the System $CeMn_2(Ge_xSi_{1-x})_2$," 40th Annual Midwest Solid State Conference, Urbana, Illinois, October 2 - 3, 1992.

62. Xianfeng Zhang* and Naushad Ali, "Investigation of the Role of Ce in $CeFe_2$" 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

63. Xianfeng Zhang* and Naushad Ali, " Entropy Change at AM-AFM Transition in Intermetallic Compound $Ce(Fe_{1-X}Co_X)_2$", 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

64. Naushad Ali and Xianfeng Zhang*, "Magnetization and Time Dependent Effects in $ErCo_3Ga_2$ Compound", 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

65. Xianfeng Zhang* and Naushad Ali, "Effects of Co and Y Substitution on Magnetic Properties of $CeFe_2$", 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

66. D. T. Marx and Naushad Ali, "Magnetoresistance Studies of Spin-slip in Single Crystal Holium", 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

67. Naushad Ali, A. Chin and J. T. Masden, " Magnetic Transition in Thin Wires of Rare Earth Metals", 20th Rare Earth Research Conference, Montery, California, September 12-19, 1993

68. Xianfeng Zhang* and Naushad Ali, "Effects of Co and Y Substitution on Magnetic Properties of $CeFe_2$", 38th Annual Conference on Magnetism & Magnetic Materials, Minneapolis, Minnesota, November 15-18, 1993

69. Naushad Ali and Xianfeng Zhang, "Unusual Magnetic Properties and Time Dependent Magnetization in $ErCo_3Ga_2$", 38th Annual Conference on Magnetism and Magnetic Materials, Minneapolis, Minnesota, USA, November 15-18, 1993

70. X. Zhang and N. Ali, "Competition Between Magnetocrystalline Anisotropy and Exchange Interaction in $Ce_{1-x}Y_x(Fe_{o\,2}CO_{o2})_2$ system," *Bull.Am.Phys.Soc.*, 38, #1, 818

(1993)

71. P. Hill and Naushad Ali, "The Formation of Local Moment in Dilute Cr-V Alloys," Midwest Solid State Conf. , Ames, Iowa, Sept. 24-25, 1994.

72. Xianfeng Zhang and N. Ali, "Ferrimagnetic behavior of two sublattices in $ErCo_3Ga_2$, 6th Joint MMM-Intermag Conference, Albuquerque, New Mexio, June 1994.

73. Xianfeng Zhang and N. Ali, "Magnetism of 3d and 4f electrons in $CeFe_2$," 6th Joint MMM-Intermag Conference, Albuquerque, New Mexico, June 1994.

74. Brian Watson and N. Ali, "Spin-Slip Structures and Magnetic Phase Diagram of Erbium," 42nd Midwest Solid State Conf., Kansas City, USA, Oct. 14, 1994.

75. Shibaji Saha and N. Ali, "Effect of Cr on the Re-Entrant Magnetic Phase Transition of $SmMn_2Ge_2$," 42nd Midwest Solid State Conf., Kansas City, USA, Oct. 14, 1994.

76. Tod Policandriotes and N. Ali, "Magnetic Properties of Ce-Cu-Sb and Ce-Ni-Sb Kondo Systems," 42nd Midwest Solid State Conf. Kansas City, USA, Oct. 14, 1994.

77. K. Lafdi, A. Chin and N. Ali, "Cobalt doped carbon nanotubes: Preparation, texture and Magnetic Proerties," 43rd Midwest Solid State Conference, Oct 1995.

78. Shibaji Saha and N. Ali, "Disappearance of Antiferromagnetic Phase in $SM(Mn_{1-x}Cr_x)_2Ge_2$," 43rd Midwest Solid State Conference, Oct 1995.

79. J.R.Gebhardt, R.A. Baer and N. Ali, "Magnetic Phase Diagram of Holmium using Magnetoresistance Measurements," 43rd Midwest Solid State Conference, Oct. 1995.

80. Shibaji Saha and N. Ali, "Magnetic Properties of the $SmMn2(Ge_{1-x}Si_x)_2$ System," 40th Magnetism Magnetic Materials Conference, Philadelphia, Nov. 1995.

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* - indicates graduate student
\+ - indicates postdoctoral fellow

XII. REVIEW PAPERS AND OTHER PUBLICATIONS

1. Naushad Ali and Sunil Labroo, "Electrical, Magnetic and Thermal Properties of RMn_2 Compounds (R = Y and Rare Earths)," Proceedings of Recent Advances in Materials Research, MTC, SIUC, 169 - 184 (April 1989).

2. Alan Weston, Naushad Ali, M. Daneshdoost, and S. Lalvani "Y-Ba-Cu-O Superconductor Films via an Electrodeposition Process," Proc. Recent Advances in Materials, 125 - 134 (1990).

3. Naushad Ali, Arthur Chin, and J. T. Masden, "Electrical Properties of Quasi-One Dimensional Wires of Magnetic Materials," Proc. Recent Advances in Materials, 219 - 239 (1990).

XIII. INVITED TALKS

1. Dept. of Physics, St. Francis Xavier University, Antigonish, Nova Scotia, Canada, March 1986.
2. Dept. of Physics, Dalhousie University, Halifax, Nova Scotia, Canada, April 1986.
3. Dept. of Physics, University of Missouri at Kansas City, Kansas City, MO, June 1987.
4. Dept. of Physics, Iowa State University, Ames, IA, June 1988.
5. Dept. of Physics, University of Kentucky, Lexington, KY, June 1989.
6. Dept. of Physics, Washington University, St. Louis, MO, June 1990.
7. Dept. of Chemical Engineering, University of Idaho, Moscow, ID, June 1991.
8. Dept. of Physics, McMaster University, Canada, June 1992.
9. Dept. of Physics and High Field Magnet Lab, Florida State University, Tallahassee, FL, July 1992.
10. Dept. of Physics, Central Florida University, Orlando, FL, July 1992.

XIV. RECENT INTRA-CAMPUS AND INTER-CAMPUS COLLABORATION (US)

1. Research collaboration with Prof. Bakul Dave of Dept. of Chemistry, SIUC on molecular magnets and nanotubes
2. Research collaboration on Permanent Magnets with
   -Dr. G. K. Marasinghe, University of Missouri, Rolla
   -Dr. W. J. James, University of Missouri, Rolla
   -Dr. O. A. Pringle, University of Missouri, Rolla
   -Dr. W. B. Yelfon, University of Missouri, Rolla

This collaboration is ongoing. In 1999, we had 3 research papers published and 4 papers presented at conferences form this collaboration.

3. Research collaboration in Dichroism and superconducting materials, with the research group of Prof. Marshall Onellion, University of Wisconsin, Madison. Our students go to University of Wisconsin-Madison to do experiments.

4. Research Collaboration on XAFS on CMR materials with Dr. S. Khalid of Brookhaven National Laboratory. This collaboration allows us to do XAFS studies at BNL.

XV. RECENT INTERNATIONAL COLLABORATION

1. Dr. V. Yu. Galkin, Russia, Studies of Cr-alloys
2. Dr. Eric Fawcett, University of Toronto, Canada, studies of Cr-alloys
3. Dr. wilson Ortiz, Brazil, studies of Cr-alloys
4. Dr. Alexander Granovsky, Moscow State University, Russia, CMR- and other Magnetic Materials
5. Dr. Ashot Markosian, Moscow State University, Russia, Magnetic Intermetalics