

Curriculum Vitae
of
STEPHEN ERIC NAGLER

CURRENT POSITION

ORNL Corporate Fellow
Neutron Scattering Division
Oak Ridge National Laboratory
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PERSONAL

Citizenship: United States and Canada (dual)
Married, 2 children

EDUCATION

Ph.D., Physics, University of Toronto 1982
M.Sc., Physics, University of Toronto 1979
B.Sc., Physics, University of Toronto 1978
Matriculation, Henry Wise Wood High School, Calgary, Alberta, Canada, 1974

FULL-TIME APPOINTMENTS

2019- Corporate Fellow and Special Assignments, Neutron Scattering Division, ORNL
2019- Joint Faculty, Materials Science and Engineering, University of Tennessee
2017-2018 Deputy Director for Science, Neutron Scattering Division, ORNL
2011-2017 Director, Quantum Condensed Matter Division, ORNL
2007- Corporate Research Fellow, ORNL
2006-2011 Chief Scientist, Neutron Scattering Science Division, ORNL
2005-2006 Interim Director, Center for Neutron Scattering, ORNL
2000-2007 Distinguished Research Staff, Oak Ridge National Laboratory
1997- Adjunct Professor of Physics, University of Tennessee
1996-2005 Group Leader, Neutron Spectrometry, ORNL
1995-1999 Senior Research Staff, Oak Ridge National Laboratory
1993-1996 Full Professor, of Physics, University of Florida
1989-1993 Associate Professor of Physics, University of Florida
1986-1996 Affiliate Appointment, Department of Materials Science & Engineering, UF.
1984-1989 Assistant Professor of Physics, University of Florida
1982-1984 Visiting Scientist, IBM T.J. Watson Research Ctr, Yorktown Heights, NY.

SABBATICAL & VISITING APPOINTMENTS

2000 Visiting Scientist, RISØ National Laboratory, Roskilde, Denmark.
1994 Visiting Scientist, Brookhaven National Laboratories, Upton, NY.
1993 Visiting Professor, Weizmann Institute of Science, Rehovot, Israel.
1990-1991 Visiting Professor, Clarendon Laboratories, Oxford, UK.
1982 Summer Professor, Chalk River Nuclear Laboratories, Neutron & Solid State Physics Branch, Chalk River, Ontario.

PRE-DOCTORAL EXPERIENCE

- 1978-1982 Attached Staff, Chalk River Nuclear Laboratories.
1978-1982 Research/Graduate Teaching Assistant, Department of Physics, University of Toronto, Toronto, Ontario.
1978 Summer Research Student, Technische Hogeschool Delft, Netherlands.
1977 Summer Research Student, National Research Council of Canada, Herzberg Institute of Astrophysics, Ottawa, Ontario.
1974-1976 (seasonal) Surveyor, DelRay Engineering, Calgary, Alberta.

PROFESSIONAL ASSOCIATION MEMBERSHIPS

American Physical Society
Canadian Association of Physicists
Neutron Scattering Society of America
American Association for the Advancement of Science
Sigma Xi

HONORS AND AWARDS (SELECTED)

- 2016 UT-Battelle Director's Award for Outstanding Team Accomplishment
UT-Battelle Team Award for Research Accomplishment
2013 APS Outstanding Referee Award
2011 Gordon Battelle Award for Scientific Research
2010 Inaugural CIRE faculty member
Fellow, Neutron Scattering Society of America
Fellow, American Association for the Advancement of Science - Section on Physics
2009 Arfken Scholar, Miami University of Ohio
UT-Battelle Director's Award for Outstanding Team Accomplishment
UT-Battelle Team Award for Outstanding Scientific Research
2007 ORNL Corporate Research Fellow
2005 Sigma Xi
2000 Fellow of the American Physical Society (Division of Condensed Matter Physics)
1998 ORNL Scientist of the Year
ORNL Technical Achievement Award
1990 Elected Senior Member of Wadham College, Oxford
1990-91 SERC Visiting Fellowship at Clarendon Laboratories, Oxford
1986-1992 NSF Presidential Young Investigator
1982-1985 NSERC Postdoctoral Fellowship
1978-1982 NSERC Postgraduate Scholarship
1978 Governor General of Canada Silver Medal (New College, University of Toronto)

EDITORIAL AND SOCIETY ACTIVITIES (SELECTED)

- 2016-2019 Executive Committee, American Physical Society Division of Condensed Matter Physics.
2006-2012 Physical Review Letters Editorial Board (Divisional Associate Editor for Condensed Matter Physics)
2008+ Editorial Board, Springer Series on "Neutron Scattering Applications and Techniques"

ADVISORY & REVIEW COMMITTEES

- 2018 Canadian Institute for Advanced Research Review Committee
- 2017+ External Advisory Committee, University of Minnesota Center for Quantum Materials
- 2017 Canada Foundation for Innovation Multidisciplinary Assessment Committee
- 2013-2016 Experimental Evaluation Committee, TRIUMF CMMS (Chair)
- 2011 NSF Selection Panel Member (Condensed Matter Physics)
- 2009 -2012 Experimental Evaluation Committee, TRIUMF CMMS
- 2009 NSERC Review Panel for TRIUMF
- 2007-2018 Review Committee Canadian Neutron Beam Centre proposals on “Quantum Materials”.
- 2006 DOE Facilities Review Committee for IPNS and LANSCE
- 2004 Clemson University Chemistry Department External Advisory Board
- 2001-2004 Spallation Neutron Source Experimental facilities Advisory Committee
- 2000+ NSERC College for review of Canada Research Chairs
- 2000 Blume Committee on Future of Neutron Scattering
- 1999- 2004 Inelastic Scattering Subcommittee, IPNS Program Advisory Committee (Chair)
- 1998-2001 Spallation Neutron Source Target Interface Advisory Committee
- 1998 IPNS/LANSCE Joint Program Advisory Committee member
- 1996-1999 LANSCE users group executive committee (1996-1999)
- 1996-1999 NSERC allocations committee on Interdisciplinary Science (1996-1999)
- 1996 NSERC Visiting Review Committee, Chalk River Nuclear Laboratories
- 1994+ Condensed Matter Physics Advisory Committee, HFBR, Brookhaven Laboratories

INSTRUMENT DEVELOPMENT ACTIVITIES (SELECTED)

- 2001+ Principal Investigator for the SEQUOIA spectrometer at SNS
- 1990-1996 Executive Committee of MRCAT (Materials Research Collaborative Access Team to develop beamlines at the Advanced Photon Source).

AWARD & FELLOW SELECTION

- 2017-2019 APS DCMP Fellowship selection Committee
- 2016 AIP IRTAP selection committee
Richard L. Greene Award selection committee
- 2012 NSSA Fellowship Committee
- 2011-2016 ORNL Wigner Fellowship Committee
- 2011-2012 CAP Herzberg Medal Selection Committee
Koerber Foundation European Science Award Evaluator
- 2009-2011 ORNL Weinberg Fellowship Committee
- 2006-2010 Shull Fellowship Selection Committee (Chair)
- 2005 Shull Fellowship Selection Committee
- 2003-2005 Brockhouse Medal Selection committee

CONFERENCE ORGANIZATION

- 2018 APS 2019 March Meeting invited symposium program committee
2017 APS 2018 March Meeting invited symposium program committee
2016 APS 2017 March Meeting invited symposium program committee
2013 Co-Organizer, Workshop on Quantum Condensed Matter, Berkeley, CA
2010 Co-Organizer, Workshop on Condensed Matter Physics, Maryville, TN 2010.
Focus Topic Symposium “Frustrated and Low Dimensional Magnetism”, 2011 APS
March Meeting, Dallas, TX.
Program Committee for Condensed Matter, American Conference on Neutron
Scattering, Ottawa, Canada
2009 International Advisory Committee, Polarised Neutrons and Synchrotron X-rays for
Magnetism Bonn, Germany
2008 Organizer, CG1 IDT meeting, New Orleans, LA
Advisory Committee for workshop on polymer dynamics, Boston, 2008
Program Committee for Condensed Matter International Conference on Neutron
Scattering, Knoxville, TN 2009
2007 Organizer, CG1 IDT, Executive committee meeting
Co-organizer, “Studying Kinetics with Neutrons” (SKIN2007), Gottingen,
Germany
2005 National Advisory Committee for LT24, Orlando, FL, 2005
2004 Program Committee for Condensed Matter Physics, American Conference on
Neutron Scattering, College Park, MD
Program Committee for “Polarized Neutron Scattering in Condensed Matter
Investigations”, Washington, DC
2002 Program Committee, American Conference on Neutron Scattering, Knoxville, 2002
2001 Publication Committee, Conference on Strongly Correlated Electron Systems,
Ann Arbor, MI
2000 International Advisory Committee, NOBUGS 2000
1999 Program Co-chairman, National Neutron Scattering Conference and User Facility
Forum
1998 Program Committee, National School on X-ray and Neutron Scattering
1997 NOBUGS '97 International Advisory Committee
Organizing Committee, ORAU Neutron Workshop
Program committee, ICNS '97, Toronto 1997
1996 Organizing committee, NSNS workshop, Oak Ridge, TN

ORNL ACTIVITIES (SELECTED)

- 2017+ Chair, Beamtime Allocation Committee (for the combined SNS/HFIR user program)
2016+ Corporate Fellows Selection Committee
2015 Corporate Fellows Charter Committee
2015+ Wigner Lecture Committee
2014+ Research Conflict of Interest and Outside Activity Committee
2007-2011 Manager, Neutron Science LDRD program
2001+ Principal Investigator for the SEQUOIA spectrometer at SNS
1998 University of Tennessee Neutron Sciences Faculty Search Committee
Chairman, ORNL Solid State Division Director Search Committee
Leadership ORNL

FACILITY USER EXPERIENCE

2018- Hahn Meitner Institute, HZB, Berlin, Germany (neutron scattering).
2009 - FRM II, Munich, Germany (neutron scattering).
2006- SNS, Oak Ridge National Laboratory, Oak Ridge, TN (neutron scattering).
2005- Lujan Center, Los Alamos National Laboratory (pulsed neutron scattering).
2002- ESRF, Grenoble, France (synchrotron radiation).
2001- SINQ, Paul Scherrer Institute, Villigen, Switzerland (neutron scattering).
2000- NRU, NRC Chalk River Nuclear Laboratories (neutron scattering).
1999- RISØ Laboratories, Roskilde, Denmark (Neutron Scattering).
1999- Advanced Photon Source, Argonne, IL (synchrotron radiation).
1997- CNRF, NIST, Gaithersburg, MD (neutron scattering).
1991- Institut Laue-Langevin, Grenoble, France (neutron scattering).
1990- Rutherford Appleton Laboratories, Harwell, UK (pulsed neutron scattering).
1989- NSLS, Brookhaven National Laboratories, Upton, NY (synchrotron radiation).
1985- HFIR, Oak Ridge National Laboratories, Oak Ridge, TN (neutron scattering).
1982- SSRL, Stanford, Palo Alto, CA (synchrotron radiation).
1982- HFBR, Brookhaven National Laboratories (neutron scattering).
1978- CRNL, Chalk River, ON, Canada (neutron scattering).

SELECTED FUNDING

- Member of U.S. DOE Quantum Science Center, Thrust 1: Quantum Materials Discovery and Development, QSC is funded for FY 2021-2025, initial year \$15M. David Dean, director. See <http://qscience.org>.
- NSF, Synthetic Design of Kitaev Magnets and Spin Liquids, co-PI with David Mandrus, \$432K, (FY 2019 – 2021)
- Principal Investigator for SEQUOIA, U.S. DOE funded at \$17M (FY 2003 – 2008).
- U.S. DOE, Facilities Initiative Award for Neutron Instrument Development, (With H. Mook and other PI's), \$1,100,000, 1996-98
- U.S. DOE, Scattering Studies of Ordering Processes and Quantum Excitations, \$686,036, 1986-98.
- NSF Presidential Young Investigator Award, \$203,500, 1986-92.
- NATO, Collaborative Research Grant (co-PI with R.A. Cowley), \$20,000, 1992-93, 1994-95.
- U.S. DOE, Materials Research Collaborative Access Team for the Advanced Photon Source, (with B.A. Bunker (Notre Dame University), PI and 2 other co-PI's), \$1,000,000, 1994-1999.

INVITED CONFERENCE PRESENTATIONS

- 2020 Aspen Winter Conference Quantum Matter: Computation Meets Experiments, Aspen, CO.
Scheduled invited talks at the following meetings were all postponed for at least one year due to the COVID -19 pandemic: International Conference on Low Temperature Physics, LY29 (Hokkaido, Japan); International Union of Crystallography Meeting, IUCr 25, (Prague, Czech Republic); Computational Methods for Quantum Many-Body Systems: Algorithms, Models, and Materials, (Gottingen, Germany).
- 2019 IBSPCS-KIAS International Workshop on Frustrated Magnetism, Daejeon, South Korea.
Strongly Correlated Electron Systems, Okayama, Japan.
Summer School on Quantum Magnetism, EPFL Switzerland.
- 2018 Topological Aspects of Quantum Matter, Mumbai, India
Correlated Magnetism: from Frustration to Topology, Dresden, DE
Canadian Institute for Neutron Scattering Meeting, Windsor, Ontario
Workshop on Enhanced Functionalities in 4 and 5d Containing Material from Large Spin-Orbit Coupling, Telluride CO.
Canadian Association of Physicists Congress, Halifax, Canada (plenary).
High Temperature Superconductivity – Unifying Themes in Diverse Materials, Aspen, CO (discussion leader).
- 2017 Gordon Research Conference on Neutron Scattering, Hong, Kong, China (discussion leader).
Gordon Research School on Neutron Scattering, Hong, Kong, China (keynote speaker).
Gordon Research Conference on Topological & Correlated Matter: From Fundamentals to New Discoveries, Hong Kong, China
Weizmann Institute Symposium honoring Eytan Domany, Rehovot, Israel
International Workshop on Dynamical Probes for Exotic States of Matter, Dresden, DE
Quantum Dynamics: From Models to Materials, Aspen, CO (invited).
Early Quantum Materials Science at the Second Target Station, Atlanta, GA (dinner speaker).
- 2016 International Symposium for Quantum Beam Research, Ibaraki University, Japan
Shull Wollan Center Inaugural Scientific Symposium, Oak Ridge, TN
ORNL QCMD Muon meeting Oak Ridge, TN (dinner speaker)
ORNL QCMD Young Researchers meeting (dinner speaker), Oak Ridge, TN
International Conference on Highly Frustrated Magnetism 2016, Taipei, Taiwan
Croucher School on Neutron Scattering, Hong Kong, China
American Conference on Neutron Scattering, Long Beach, CA
Gordon Conference on Correlated Electron Systems, South Hadley, MA
APS March Meeting Baltimore, MD.
German Physical Society Spring Meeting Regensburg, Germany
Workshop on Topological Phenomena in Novel Quantum Matter, Dresden, Germany
- 2015 Virtual Institute PI Workshop, Goettingen, Germany
KITP workshop, Santa Barbara, CA
TSRC Workshop, Telluride, CO
- 2014 Neutron Scattering and High Magnetic Fields, Oak Ridge, TN
Croucher School on Neutron Scattering, Hong Kong, China (3 lectures)
Workshop on new directions and opportunities for Small Angle Neutron Scattering in Condensed Matter, Oak Ridge, TN (after dinner talk).
ICSM 2014, Antalya, Turkey
3rd Workshop for Light Quantum Beam Science Promotion, Tohoku University, Sendai, Japan (plenary)
- 2013 Workshop on Quantum Condensed Matter Summary Talk, Berkeley, CA
Workshop on New States of Matter and their Excitations, Berlin, Germany

- Workshop on Crystal Growth and Materials Design, Knoxville, TN
- 2012 4th International Symposium on Structure-Property Relationships in Solid State Materials, Bordeaux, France
- Workshop on Neutrons for Novices, Oak Ridge, TN
- 2011 TSRC Workshop, Telluride, CO (invited).
Magnetic North II, St. Johns, Newfoundland, Canada
- 2010 Maryville workshop on Condensed Matter Physics, Maryville, TN
SUPER-PIRE Kickoff Meeting, Knoxville, TN
ICMM2010 – 12th International Conference on Molecule-Based Magnets, Beijing, China, (plenary).
International Workshop “Trends and Perspectives in Neutron Scattering: Magnetism and Correlated Electrons, Bernried, Germany.
DOE Contractors Meeting, Airlie, VA.
- 2009 ASM Symposium “Materials for Megawatts”, Oak Ridge, TN
64th Annual Meeting of ORAU Council of Sponsoring Institutions, Oak Ridge, TN
- 2008 Second Workshop on Novel Materials, Lexington KY
Quantum Magnetism, Minneapolis, MN
- 2007 Symposium on Neutron Scattering, AVS 54th Annual Meeting, Seattle, WA
Summer Workshop on Low-D Quantum Condensed Matter, Amsterdam, Netherlands
- US-Japan Meeting on Neutron Scattering, Oak Ridge, TN (invited).
- 2006 US-China International Joint Symposium on Neutron Scattering, Beijing
CINS Neutron Scattering Summer School, Chalk River, Ontario
Symposium for Bill Buyers, Chalk River, Ontario
- 2005 Workshop on Neutron scattering from strongly correlated electron materials: integrating theory and experiment, Terrigal, Australia
International Conference on Neutron Scattering, Sydney, Australia (Invited Session Chair, co-author of additional invited presentation).
SHUG Meeting, Oak Ridge, TN.
- 2004 Computation Materials Science Network, “Predictive Capabilities for Strongly Correlated Systems”, Oak Ridge, TN
SERMACS, Raleigh-Durham, NC
Polarized Neutron Scattering in Condensed Matter Investigations, Washington, DC
CINS Neutron Scattering Summer School, Chalk River, Ontario
UT Chemical Physics Workshop 2004, Knoxville, TN (invited)
Workshop on Polarised and Inelastic Cold Neutron Scattering, Lucas Heights, Australia (invited)
- 2003 SESAPS Meeting, Wilmington, NC
Symposium on Canadian Participation in the SNS, Hamilton, Ontario
Fifteenth American Conference on Crystal Growth and Epitaxy, Keystone, CO
Statistical Physics of Random Structures with Applications to Life and Materials Sciences, Ma’agan, Israel
US – Japan Workshop on Neutron Scattering, Brookhaven, NY
- 2002 Correlated Electron Systems Gordon Conference, Colby College, ME
CINS Neutron Scattering Summer School, Chalk River, Ontario
ORNL Neutron Day (invited)
US – Japan Neutron Scattering Workshop, Oak Ridge, TN
- 2001 LANSCE User Group Meeting, Los Alamos, NM
ICTP Summer School on Low-Dimensional Quantum Systems, Trieste, Italy
U.S. Japan International Workshop, Frustrated and Highly Correlated Electrons: Present and Future Trends, Oak Ridge, TN

- APS March Meeting, Seattle, WA
- 2000 Canadian Institute for Neutron Scattering Symposium, Montreal, Canada
SNS Workshop on Inelastic Neutron Scattering, Argonne, IL (Group Leader)
Workshop on Exotic Oxides, Upton, NY
Aspen Winter Conference on Quantum Criticality, Aspen CO
- 1998 SNS/HFIR User Meeting, Knoxville, TN
LANSCE User Group Meeting, Los Alamos, NM
AVS Symposium on Neutron Scattering, Knoxville, TN
ORAU Spallation Neutron Source High Flux Isotope Reactor Workshop, Oak Ridge, TN
- 1997 Workshop on Manganites, Ruthenates and Related Materials, Tallahassee, FL
Workshop on Antiferromagnetic Materials, Tuscaloosa, AL
APS March Meeting, Kansas City, MO
- 1995 CAM 95, Quebec City, Canada
- 1993 APS March Meeting, Seattle, WA
- 1992 APS March Meeting, Indianapolis, IN (tutorial speaker).
UF-FSU Steinhatchee Physics Meeting, Steinhatchee, FL
- 1991 European Research Symposium on Dynamical Properties of Solids, Autrans, France
- 1990 APS March Meeting, Anaheim, CA
DOE/DMS Discussion Meeting on Neutron Scattering, Gatlinburg, TN
- 1988 Workshop on Time-Resolved Studies and Ultrafast Detectors, Argonne, IL
- 1983 Conference on Magnetism and Magnetic Materials, Pittsburgh, PA
Canadian Association of Physicists Conference, Victoria, British Columbia

NON-CONFERENCE INVITED SEMINARS & COLLOQUIA

- 2020 Kennesaw State University, Physics Society Seminar, Atlanta, GA (by ZOOM).
- 2019 University of Washington, Condensed Matter Seminar, Seattle, WA.
- 2018 Helmholtz Zentrum Berlin, Seminar, Berlin, DE.
- 2017 Stanford University, Condensed Matter Physics Seminar, Palo Alto, CA.
Leibnitz Institute for Solid State and Materials Research, Dresden, DE.
- 2016 Ibaraki University, Tokai, Japan.
Leibnitz Institute for Solid State and Materials Research, Dresden, DE.
- 2015 Max Planck Institute for Physics of Complex Systems, Dresden, DE.
Max Planck Institute for Chemical Physics of Solids, Dresden, DE.
Michigan State University, Condensed Matter Seminar, East Lansing, MI.
- 2014 University of Missouri, Physics Colloquium, Columbia, MO.
Tohoku University, Condensed Matter Physics Seminar, Sendai, Japan
University of Illinois, Condensed Matter Physics Seminar, Urbana, IL
- 2013 University of Toronto, Condensed Matter Physics Seminar, Toronto, ON, Canada
University of Waterloo, Quantum Matters Seminar, Waterloo, ON, Canada
McMaster University, Brockhouse Institute for Materials Research seminar, Hamilton, ON, Canada
UTK Physics Colloquium, Knoxville, TN
- 2012 KJA public lecture, Knoxville, TN
ORICL lecture, Oak Ridge, TN
UTK QCMP Graduate Student Lectures, Knoxville, TN
- 2011 UTK Graduate Student Seminar, Knoxville, TN
- 2010 Simon Fraser University, Burnaby, BC, Canada (seminar).
Insitute of Physics, Chinese Academy of Science, Beijing, China (seminar).
UTK Graduate Student seminar, Knoxville, TN
Presentation to Juelich visiting group, Oak Ridge, TN
UCSD, La Jolla, CA (Condensed matter seminar and two student lectures).
UCLA , Los Angeles, CA (Condensed Matter Seminar and student lecture).
- 2009 Miami University, Oxford, Ohio, (Physics Colloquium and Student lecture).
IFF Juelich Germany, (Colloquium).
University of British Columbia, Vancouver, Canada. (seminar).
- 2008 University of Florida, Gainesville, FL. (seminar).
- 2007 University of Calgary, Calgary, Alberta, Canada (Colloquium).
University of Washington, Seattle, WA (colloquium).
University of Tennessee, Knoxville, TN (seminar).
Seminar to visiting Penn State Geochemistry group, Oak Ridge, TN.
- 2006 Weizmann Institute of Science, Rehovot, Israel (colloquium).
- 2005 University of Tennessee Science Forum (Knoxville, TN)
ORNL Center for Neutron Scattering technical talk, Oak Ridge, TN
- 2004 University of Michigan, Ann Arbor, Michigan (seminar)
University of Tennessee, Knoxville, TN (colloquium)
University of Toronto, Toronto, Ontario (colloquium)
Iowa State University / Ames Laboratory , Ames, IA (seminar)
Florida State University, Department of Physics and NHMFL, Tallahassee, FL (seminar)
- 2003 University of Tennessee, Knoxville, TN (graduate seminar)
Weizmann Institute Department of Condensed Matter Physics, Rehovot, Israel (colloquium)
Hebrew University Department of Physics, Jerusalem, Israel (colloquium)
University of Cincinnati, Cincinnati, OH (colloquium)
- 2002 Georgia Institute of Technology, Atlanta, GA (colloquium)

- ILL, Grenoble France (colloquium)
 University of Tennessee, Knoxville, TN (graduate seminar)
- 2001 Clemson University, Clemson, SC (seminar)
 Paul Scherrer Institute, Villigen, Switzerland (colloquium)
 University of Florida (colloquium and seminar)
 McGill University, Montreal, Canada (colloquium)
 University of Kentucky (colloquium)
 NRC Chalk River, Canada (colloquium)
 Vanderbilt University (colloquium)
- 1999 RISOE National Laboratory, Denmark (colloquium).
 Louisiana State University, Baton Rouge, LA (colloquium).
- 1998 Friends of ORNL, Oak Ridge, TN (seminar).
 University of Notre Dame, South Bend, IN (colloquium).
 University of Tennessee, Knoxville, TN (seminar).
- 1997 Oak Ridge National Laboratory, Oak Ridge, TN (seminar).
- 1996 University of California, Los Angeles (seminar).
- 1995 Oak Ridge National Laboratory, Oak Ridge, TN, (Solid State Colloquium).
 Brookhaven National Laboratories, Upton, NY (seminar).
- 1994 Yale University, New Haven, CT. (seminar).
 University of Florida, Gainesville, Fl. (seminar).
- 1993 John's Hopkins University, Baltimore, Md. (seminar).
 Weizmann Institute of Science, Rehovot, Israel (colloquium and seminar).
 Carnegie-Mellon University, Pittsburgh, PA, (seminar).
 University of California, Los Angeles, CA, (colloquium).
- 1992 Weizmann Institute of Science, Rehovot, Israel, (colloquium).
 University of Toronto, Toronto, Ontario, (colloquium).
 McMaster University, Hamilton, Ontario, (colloquium).
 University of Florida, Gainesville, FL, (colloquium).
- 1991 University of Missouri, Columbia, MO, (O.M. Stewart Colloquium).
 Missouri University Research Reactor, Columbia, MO, (seminar).
 Rutherford Appleton Laboratories, Harwell, UK, (seminar).
 Keele University, Stoke-on-Trent, UK, (colloquium).
 Institut Laue Langevin, Grenoble France, (seminar).
 University of Chicago, James Franck Institute, Chicago, IL, (colloquium).
- 1990 Brookhaven National Laboratories, Upton, NY, (NSLS colloquium).
 Clarendon Laboratories, Oxford, UK, (seminar).
- 1989 Ohio State University, Columbus, OH, (colloquium).
- 1988 McGill University, Montreal, Quebec, (colloquium).
 Los Alamos National Laboratories, Los Alamos, NM, (CMS colloquium).
 University of Chicago, James Franck Institute, Chicago, IL (colloquium).
 Northwestern University, Evanston, IL (colloquium).
 University of Alberta, Edmonton, Alberta, (seminar).
 University of Florida, Gainesville, FL, (colloquium).
- 1987 McMaster University, Hamilton, Ontario, (IMR colloquium).
 University of Florida, Gainesville, FL, (seminar).
- 1985 University of Florida, Gainesville, FL, (Frontiers of Science Lecture)
 University of Florida, Gainesville, FL, (Chemistry seminar).
- 1984 Stanford University, Palo Alto, CA, (Applied Physics seminar).
 University of California, San Diego, La Jolla, CA, (seminar).
 Los Alamos National Laboratories, Los Alamos, NM, (seminar).
 University of California, Santa Cruz, Santa Cruz, CA, (colloquium).

- McMaster University, Hamilton, Ontario, (colloquium).
Oak Ridge National Laboratories, Oak Ridge, TN, (seminar).
University of Florida, Gainesville, FL, (seminar).
IBM T.J. Watson Research Center, Yorktown Heights, NY, (colloquium).
Brookhaven National Laboratories, Upton, NY, (physics seminar).
- 1983 University of British Columbia, Vancouver, British Columbia, (seminar).
Simon Fraser University, Burnaby, British Columbia, (seminar).
- 1982 University of Tokyo, Tokyo, Japan, (ISSP seminar).
IBM T.J. Watson Research Center, Yorktown Heights, NY, (seminar).
University of Toronto, Toronto, Ontario (seminar).
Chalk River Nuclear Laboratories, Chalk River, Ontario, (colloquium).

PUBLICATIONS (REFEREED JOURNAL ARTICLES)

- R.M. Dale, M. Herman, J.W.C. Johns, A.R.W. McKellar, S. Nagler and I.K.M. Strathy, *Improved Laser Frequencies and Dunham Coefficients for Isotopically Substituted Carbon Monoxide*, Can. J. Phys. **57**, 677 (1979).
- W.J.L. Buyers, J. Yamanaka, S.E. Nagler, and R.L. Armstrong, *Spin-Wave Response in the One-Dimensional Anisotropic Antiferromagnet CsCoCl₃*, Sol. St. Commun. **33**, 857 (1980).
- S.E. Nagler, R.L. Armstrong, and W.J.L. Buyers, *Transverse Spin Dynamics in CsCoCl₃*, J. Appl. Phys. **52**, 1971 (1981).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and B. Briat, *Propagating Domain Walls in CsCoBr₃*, Phys. Rev. Lett. **49**, 590 (1982).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and B. Briat, *Ising-Like Spin-1/2 Quasi-One-Dimensional Antiferromagnets: Spin-Wave Response in CsCoX₃ Salts*, Phys. Rev. **B27**, 1784 (1983).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, D.J. Lockwood, and R.A. Ritchie, *Magnetic Excitations in the Dilute One-Dimensional Ising-Like Antiferromagnet*, Physica **120B**, 183 (1983).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and B. Briat, *Observation of the Villain Mode in CsCoBr₃*, J. Mag. Mat. **31-34**, 1213 (1983).
- T.F. Rosenbaum, S.E. Nagler, P.M. Horn, and R. Clarke, *Experimental Observation of Continuous Melting into a Hexatic Phase*, Phys. Rev. Lett. **50**, 1791 (1983).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and B. Briat, *Solitons in the One-Dimensional Antiferromagnet CsCoBr₃*, Phys. Rev. **B28**, 3873 (1983).
- E. Courtens, T.F. Rosenbaum, S.E. Nagler, and P.M. Horn, *Short-Range Ordering and Freezing in a Randomly Mixed Ferroelectric-Antiferroelectric Crystal*, Phys. Rev. **B29**, 515 (1984).
- R. Clarke, P.M. Horn, S.E. Nagler, and T. F. Rosenbaum, *A New Adsorption Substrate: Single Crystal Exfoliated Graphite*, J. Appl. Phys. **55**, 1231 (1984).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and B. Briat, *Soliton Dynamics in Quantum Ising-Like Antiferromagnetic Chains*, J. Appl. Phys. **55**, 1856 (1984).
- S.E. Nagler, W.J.L. Buyers, R.L. Armstrong, and R.A. Ritchie, *Static and Dynamic Spin Correlations in the Random One-Dimensional Antiferromagnet CsCo_xMg_{1-x}Cl₃*, J. Phys. **C17**, 4819 (1984).
- K.L. D'Amico, D.E. Moncton, E.D. Specht, R.J. Birgeneau, S.E. Nagler, and P.M. Horn, *Rotational Transition of Incommensurate Kr Monolayers on Graphite*, Phys. Rev. Lett. **53**, 2250 (1984).
- S.E. Nagler, P.M. Horn, T.F. Rosenbaum, R.J. Birgeneau, M. Sutton, S. Mochrie, D.E. Moncton, and R. Clarke, *Orientalional Order in Xenon Fluid Monolayers on Single Crystals of Exfoliated Graphite*, Phys. Rev. **B32**, 7373 (1985).
- E.D. Specht, R.J. Birgeneau, K.L. D'Amico, D.E. Moncton, S.E. Nagler, and P.M. Horn, *The Freezing Transition of Monolayer Xenon on Single Crystal Graphite*, J. Physique Lett. **46**, L-561 (1985).
- E.D. Specht, A. Mak, C. Peters, M. Sutton, R.J. Birgeneau, K.L. D'Amico, D.E. Moncton, S.E. Nagler, and P.M. Horn, *Phase Diagram and Phase Transitions of Krypton on Graphite in the Extended Monolayer Regime*, Z. Physik **B69**, 347 (1987).
- R.F. Shannon, Jr., C.R. Harkless, and S.E. Nagler, *Effect of Extra Cu on Ordering Kinetics in Thin Films of Cu₃Au*, Phys. Rev. **B38**, 9327 (1988).

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STUDENTS & POSTDOCTORAL FELLOWS MENTORED

1. Doctoral Students (with most recent known positions):

- R.F. Shannon, Jr. Ph.D., UF (1990) (Now with Bruker, Richland, WA).
- C.R. Harkless Ph.D., UF (1990) (Firefly Technology Solutions, Granada Hills, CA)
- J. Zhang Ph.D., UF (1993) (Xilinx Corp, San Jose CA.)
- A.W. Garrett Ph.D., UF (1997) (Firaxis Games, Sparks Glencoe, MD).
- Wei Tian Ph.D. UT (2006) (joint supervision, research staff, ORNL)
- Yuen Yiu Ph.D. UT (2015) (staff writer with American Institute of Physics)

2. Postdoctoral Fellows:

- C. Balz (Ph. D., TU Berlin, 2017), 2017 – 2019 (Rutherford Appleton Laboratories)
- P. Kelley (Ph.D., U. South Florida, 2015), 2015- 2019 (Moore Fellow, with D. Mandrus, now in private company).
- A. Banerjee (Ph. D., U. Chicago, 2012), 2013 – 2017 (Faculty, Purdue U.)
- A. Aczel, (Ph.D., McMaster University, 2010), 2010 - 2013 (research staff, ORNL)
- G. MacDougall, (Ph.D., McMaster University, 2008), 2008 – 2012 (Faculty, U. Illinois)
- O. Garlea, (Ph.D., U. J. Fourier), co-supervised 2006, (Research staff, ORNL).
- M. B. Stone (Ph.D., Johns Hopkins), 2005-2006, (Research staff, ORNL).
- B. Lake (Ph.D., Oxford), partial supervision 2000-2001, (Faculty, Technical University of Berlin).
- M. Lumsden (Ph.D., McMaster, 1998), Wigner Fellow, 1999-2000. (Section Head, ORNL).
- W. Montfrooij (Ph.D., Delft, 1990), 1998- 2000 (Faculty, University of Missouri).
- G. Granroth (Ph.D., U. Florida, 1997), 1998- 2000 (Research Staff, ORNL)
- D.A. Tennant (Ph.D., U. Oxford, UK, 1994), 1996-1998, (Distinguished Staff, ORNL).
- J.F. Ma (Ph.D., U. Pennsylvania, 1991) 1991-94, (Faculty, Graduate School of Biomedical Sciences, University of Texas MD Anderson Cancer Center, Houston, TX).
- M.A. Singh (Ph.D., U. Toronto, 1988), 1988-90, (Queen's University, Kingston, Ont.).

3. ORNL Shull Fellows Supervised:

- Y. Zhang (Ph. D. MIT, 2010), 2010 – 2011 (Faculty, U. of Illinois).
- X. Ke (Ph. D. University of Wisconsin, 2006), 2009 - 2011 (Faculty, Mich. State U.)
- O. Delaire, (Ph.D., Cal Tech, 2006), 2008 – 2011 (Faculty, Duke U.)
- C. B. Stanley, (Ph.D., U. Mass, Amherst, 2004) 2007 – 2010 (Research staff, ORNL)
- S. E. McLain, (Ph.D. University of Tennessee, 2004), 2007 – 2008, (Department of Biochemistry, University of Oxford, UK).
- A. D. Christianson, (Ph.D. Colorado State University, 2003), 2006 – 2009 , (research staff, ORNL).

4. Undergraduate Research Students and pre-doctoral graduate students:

- Han Jong Chia (Grinnel) (Ph. D., U. Texas, Austin, now Research Staff, Everspin Technologies.)
- Thomas Enck, now Engineer at DCS Corp, VA.
- Jacobus Koster, now Software Engineer at KLA-TENCOR, CA.
- S. Lee Smith (Ph.D. Stanford U., now director of R&D, Synopsys Inc)
- Gerald Seidler (Ph. D. U. Chicago, now Faculty, U. Washington).
- Robert Tai (Ph. D. Harvard in Science Education, Faculty, Curry School at U. Virginia)
- Garrison Venn (Senior Bit Shepherd, Stem, Inc., San Francisco, CA).

TEACHING

University courses taught at University of Florida:

- Electromagnetism (physics majors), Classical Mechanics (physics majors), Technical Physics (introductory), General Physics (introductory), Light, Color and Holography (general), Modern Physics (physics honors program).
- Seminar on Condensed Matter Physics (graduate). Introduction to Solid State Physics (graduate).

Graduate Course at UTK:

- Co-taught live and online graduate course on Neutron Scattering in Quantum Condensed Matter Physics with faculty from several universities.

I have also been involved in physics education in the community by participating in county and state science fairs at the high school and middle school level, making presentations at the elementary school level, and serving on technology acquisition and advisory committees at the elementary school level.