

Oak Ridge National Laboratory

Neutron Scattering Science Points of Contact

Doug Abernathy, abernathydl@ornl.gov (865-576-5105)
Atomic-scale dynamics at thermal and epithermal energies

John Ankner, anknerjf@ornl.gov (865-576-5122)
Density profiles normal to the surface at liquid surfaces and liquid interfaces

Bryan Chakoumakos, chakoumakobc@ornl.gov (865-574-5235)
Nuclear and magnetic crystal structure systematics and structure-property relationships among inorganic materials, powder and single-crystal neutron and x-ray diffraction methods

Hahn Choo, chooh@ornl.gov (865-574-3818)
Engineering neutron diffraction, structure-property relationships of structural materials, residual stresses

Leighton Coates, coatesl@ornl.gov (865-963-6180)
Macromolecular crystallography applications in structural biology, enzymology, and computational chemistry

Takeshi Egami, egami@utk.edu (865-974-7204)
Joint Institute for Neutron Sciences, local structural analysis, the PDF method, inelastic neutron scattering

Georg Ehlers, ehlersg@ornl.gov (865-576-3511)
Inelastic neutron scattering, magnetism

Al Ekkebus, ekkebusae@ornl.gov (865-241-5644)
Neutron Scattering Science user program

Jaime Fernandez-Baca, fernandezbja@ornl.gov (865-576-8659)
Inelastic neutron scattering, hard condensed matter, magnetism, magnetic oxides, magnetic excitations in solids

Garrett Granroth, granrothge@ornl.gov (865-576-0900)
Atomic-scale dynamics in the 0 - 2eV range, magnetic materials, quantum magnetism, disordered magnets.

Mark Hagen, hagenme@ornl.gov (865-576-1521)
Inelastic neutron scattering and diffraction, magnetism, ferroelectricity, magnetic and structural phase transitions, real time and in-situ neutron scattering

William T. Heller, hellerwt@ornl.gov (865-241-0093)
Center for Structural Molecular Biology; small-angle neutron scattering, biological macromolecules and self-assembled systems, computational modeling

Ken Herwig, herwigkw@ornl.gov (865-576-5095)
Atomic scale dynamics, diffusive and vibrational motions of adsorbed molecules or large molecules

Jason Hodges, hodgesj@ornl.gov (865-576-7034)
Atomic structure in a wide variety of powdered crystalline samples

Christina Hoffmann, hoffmanncm@ornl.gov (865-576-5127)
Atomic structure in moderate-unit-cell single crystal samples

Camden Hubbard, hubbardcr@ornl.gov (865-574-4472)
Residual stress mapping in engineering and research samples, micro residual stresses in polycrystalline composites, crystal structure and in situ studies

Ashfia Huq, huga@ornl.gov (865)574-7923
Atomic structure analysis of powder crystalline and non crystalline materials using the Rietveld and PDF method

Mark Lumsden, lumsdenmd@ornl.gov (865-241-0090)
Neutron spectroscopy, magnetic materials, low-dimensional quantum magnetism.

Eugene Mamontov, mamontove@ornl.gov (865-574-5109)
Atomic scale dynamics, diffusive motions of molecules on surfaces and in confinement

Yuri Melnichenko, melnichenkoy@ornl.gov (865-576-7746)
Small angle neutron scattering; soft condensed matter; phase transitions and critical phenomena in liquid and supercritical polymer solutions, gels and blends; dynamics and structure of fluids confined in small pores

Herb Mook, mookhajr@ornl.gov (865-574-5242)
Magnetism and lattice dynamics of highly correlated electronic systems such as heavy fermion materials and the high temperature superconductors

Dean Myles, mylesda@ornl.gov (865-574-5662)
Center for Structural Molecular Biology, biological structure & function, bio-SANS, bio-mimetics, protein crystallography, deuterium labeling

Steve Nagler, naglerse@ornl.gov (865-574-5240)
Inelastic neutron scattering and diffraction, novel materials, correlated electron systems, low dimensional and quantum magnetism, molecular magnets, phase transitions

Joerg Neufeld, neufeldjc@ornl.gov (865-241-1635)
Atomic structure of liquids and glasses, neutron and hard x-ray scattering.

Michael Ohl, ohlme@ornl.gov (865-574-8426)
Inelastic neutron scattering, dynamics in glasses and disordered materials

Judy Pang, pangj@ornl.gov (865-241-4416)
Materials deformation understanding via synchrotron and neutron diffraction methods

Andrew Payzant, payzanta@ornl.gov (865-574-6538)
Studies on polycrystalline materials as a function of temperature and atmosphere; internal strain and texture in engineering materials

Claudia Rawn, rawncj@ornl.gov (865-574-3184)
Structure property relationships, thermal expansion, and phase equilibria

Lee Robertson, robertsonjl@ornl.gov (865-574-5243)
Local atomic arrangements in alloys, martensitic phase transitions, lattice dynamics, structure and dynamics of liquids and amorphous materials

Greg Smith, smithgs1@ornl.gov (865-241-1742)
Neutron reflectometry, soft condensed matter, thin films and interfaces, biomimetic materials

Judy Trimble, trimblejl@ornl.gov (865-241-3675)
Neutron Scattering Science user program

Chris Tulk, tulkca@ornl.gov (865-576-7028)
Atomic structure at pressures up to 100 Gp; Small-angle scattering from liquids and glasses, and analysis of disorder in crystalline materials

Volker Urban, urbanvs@ornl.gov (865-576-2578)
Small angle neutron and x-ray scattering, macromolecular structures, soft condensed matter and biological systems

Xun-Li Wang, wangxl@ornl.gov (865-574-9164)
Residual stress, mechanical behaviors, phase transformation, magnetism. In-situ time-resolved diffraction and small angle scattering.

George Wignall, wignallgd@ornl.gov (865-574-5237)
Small angle neutron scattering, macromolecular structures in the condensed and fluid states, polymers and polymers solutions

Barry Winn, bwinn@bnl.gov (865-241-0092)
Neutron triple axis spectroscopy, shape memory alloys

Michaela Zamponi, zamponimm@ornl.gov, 865-576-5119,
Inelastic neutron scattering, soft condensed matter, polymer dynamics

Jerel Zarestky, zarestkyjl@ornl.gov (865-574-4951)
Neutron triple-axis spectrometry, lattice dynamics, magnetism, intermetallic compounds, superconductivity

Jinkui Zhao, zhaoj@ornl.gov (865-574-0411)
Large-scale structures in a variety of materials, including biological molecules, polymers, colloidal systems

Andre Zheludev, zheludevai@ornl.gov (865-241-0098)
Inelastic neutron scattering and diffraction, quantum magnetism, low dimensional systems, novel materials

July 2007