NCNR/NIST RESIDENT STAFF AND VISITING SCIENTISTS

CENTER OFFICE (856)

Rowe, J. M., Director
Weiss, S. H., Deputy Director
Hill, J. M., Secretary
Sullivan, D. A., Admin. Off.
Neal, S. L., Admin. Asst.
Clutter, L. K., User. Coord.
Barker, J. G.
Cappelletti, R. L.
Kamitakahara, W. A.
Prask, H. J.

REACTOR OPERATIONS & ENGINEERING

Raby, T. M., Chief
Torrence, J. F., Deputy
Poole, L. M., Secretary

Operations

Beasley, R.D.
Bickford, N. A.
Bobik, P. A.
Cassells, M. G.
Clark, F. C.
Dilks, H. W.
Flynn, D. J.
Guarin, E. L.
Lindstrom, L. T.
McDonald, M. J.
Mueller, W. W.
Myers, T. J.
Pierce, S. C.
Ring, J. H.
Slaughter, S. G.
Sprow, R. P.
Stiber, R. F.
Thompson, R. G
Toth, A. L.
Wilkison, D. P.
Wright, K. D.

Engineering

Suthar, M. A., Chief
Beatty, J. A.
Boyd, J. M.
Brady, D. E.
Hall, K. D.
Liposky, P. J.
Reilly, G. D.
Shuman, L.A.

Guest Researchers

Anderson, D. A.
Dahan, S.
Cunningham, W. C.
Yee, K.

NEUTRON CONDENSED MATTER SCIENCE GROUP

Rush, J. J., Leader
Runkles, C. L., Secretary
Bowen, M. L., Automat. Asst.
Berk, N. F.
Yildirim, T.

Chemical Physics of Materials

Copley, J. R. D.
Dimeo, R. M.
Forstner, K. T.
McLaughlin, J. C.
Neumann, D. A., Team Leader
Tsai, A. M.
Udovic, T. J.

Crystallography

Reisner, B. A.
Santoro, A.
Stalick, J. K.
Toby B. H., Team Leader

Magnetism and Superconductivity

Borchers, J. A.
Erwin, R. W.
Gehring, P. M.
Lynn, J. W., Team Leader
Santodonato, L.

Macromolecular and Microstructure

Butler, P. D.
Glinka, C. J., Team Leader
Hammouda, B.
Hernandez, Y.
Kline, S. R.
Munter, A. E.
Rosov, N.

Surfaces and Interfaces

Dura, J. A.
Krueger, S. T.
Ivkov, R.
Majkrzak, C. F., Team Leader
Satija, S. K.

Guest Researchers

Adams, C.
Broholm, C.
Brown, C. M.
Bu, Z.
Choi, S.-M.
Cook, J.
Dender, D.
Gnäupel-Herold, T.
Gulseren, O.
Ho, D.
Huang, Q. Z.
Lee, S.-H.
Lin, M. Y.
Meyer, A.
Nieh, M.
Papanek, P.
Pagoda, C.
Park, S.
Prince, E.
Raebiger, J.
Rathgeber, S.
Sitepu. H.
Tarek, M.
Trevino, S. F.
Ulrich, C.
Vasiliu-Doloc, L.

RESEARCH FACILITY OPERATIONS

Gallagher, P. D. Leader
Ruhl, K. J., Clerk Typist
Baltic, G. M.
Bostian, C. D.
Brand, P. C.
Clarkson, A. W.
Clem, D. L.
Clow, W. R.
Dickerson, W. E.
English, M. C.
Fravel, D. H.
Fulford, D.
Greene, G. C.
Heald, A. E.
Klosowski, P.
Knill, W. C.
Kopetka, P. H.
Kulp, D. L.
LaRock, J. G.
Maliszewskyj, N. C.
Pierce, D. J.
Reardon, J. P.
Rinehart, M. J.
Schröder, I. G.
Slifer, S.
Thai, T. T.
Tobin, P. J.
Williams, R. E.
Ziegler, J. B.

Guest Engineers

Brocker, C. W.
Christman, R.
Kenney, J. T.
Moyer, J. J.
Murbach, M.
Wrenn, C. W.

OTHER NIST GROUPS

NEUTRON INTERACTIONS & DOSIMETRY GROUP (846)

Gilliam, D. M., Leader
Chin, C. R., Secretary
Adams, J. M.
Arif, M.
Clarkson, N.
Dewey, M. S.
Gentile, T. R.
Huffman, P. R.
Jacobson, D. L.
Nico, J. S.
Thompson, A. K.

Guest Researchers

Brome, C. R.
Butterworth, J.S.
Chowdhuri, Z. S.
Doyle, J. M.
Dzhosyuk, S. N.
Eisenhauer, C. M.
Hansen, G. L.
Ioffe, A.
Jones, G. L.
Mattoni, C. E. H.
McKinsey, D.
Rich, D. R.
Schwartz, R. B.
Snow, W. M.
Weitfeldt, F. E.

NUCLEAR METHODS GROUP (839)

Greenberg, R. R., Leader
Wilson, J. M., Secretary
Becker, D. A.
Chen-Mayer, H. H.
Demiralp, R.
Lamaze, G. P.
Langland, J. K.
Lindstrom, R. M.
Mackey, E. A.
Mildner, D. F. R.
Paul, R. L.
Porter, B. J.
Zeisler, R. L.

Guest Researchers

Berger, A.
Bishop, R. L.
Blackman, M. J.

HEALTH PHYSICS (354)

Slaback, L. A., Leader
Thomas, C. L., Secretary
Brown, D. R.
Campbell, C. D.
Cassells, L. H.
Clark, J. S.
Deardorff, G. E.
Fink, L. E.
Mengers, T. F.
Shubiak, J. J.

RESEARCH AND ENGINEERING STAFF

J. G. Barker
- SANS instrumentation and research
- Microstructure of materials

N. F. Berk
- Condensed matter theory
- Scattering theory for microstructure analysis
- Computer software for graphics and data analysis

N. A. Bickford
- Reactor operations
- Reactor irradiations
- Reactor utilization

J. A. Borchers
- Magnetism
- Thin-film analysis
- Artificially modulated materials

D. E. Brady
- Electrical/electronic engineering
- Nuclear reactor instrumentation
- NDE diffraction methods

P. C. Brand
- Engineering physics
- Materials engineering
- Neutron residual stress measurements

J. M. Boyd
- Electrical/electronic engineering
- Nuclear reactor instrumentation

P. D. Butler
- Microstructure of complex fluids
- SANS instrumentation

R. L. Cappelletti
- Dynamics of disordered solids
- Condensed matter physics
- Science information management

J. R. D. Copley
- Time-of-flight spectrometer development
- Neutron instrumentation
- Conceptual design
- Condensed matter physics

W. E. Dickerson
- Neutron scattering instrumentation
- Microcomputer interfacing
- Nuclear and engineering physics

R. M. Dimeo
- Condensed matter physics
- Cold neutron instrumentation
- Molecules in porous media

J. A. Dura
- Combined molecular beam epitaxy and neutron reflectivity
- Instrumentation
- Surface, interfacial, and epitaxial physics

M. C. English
- Electrical engineering
- Instrument development
- Facility operations

R. W. Erwin
- Magnetic materials
- Phase transformations
- Cryogenics

K. T. Forstner
- Instrumentation
- Monochromator development

D. B. Fulford
- Mechanical engineering

P. D. Gallagher
- Neutron instrumentation
- Interfacial phenomena in polymer systems and complex fluids
- Phase transitions and critical phenomena

P. M. Gehring
- Back-scattering and triple-axis instrumentation
- Transitions in magnetic and ferroelectric materials
- Dynamics of high T_c materials

C. J. Glinka
- Microstructure characterization by SANS
- CHRNS project director
- Cold neutron instrument development

G. C. Greene
- System and user software for cold neutron instrumentation
- Spectrometer and data acquisition systems interfaces

B. Hammouda
- SANS from polymers, liquid crystals, and colloids
- Dynamics of polymers in solution
- Scattering from sheared fluids

Y. Hernandez
- Chemical technology
- Sample preparation and characterization

A. E. Heald
- Design engineering
- Neutron instrumentation
- Shielding

W. A. Kamitakahara
- Dynamics of disordered solids
- Condensed matter physics
- NCNR user program

S. R. Kline
- Microstructure of colloids and microemulsions
- Novel surfactant systems
- SANS instrumentation

R. Ivkov
- Dynamics of filled polymers and polymer composites
- Neutron reflectometry
- Structure of polymer and protein solutions, polymer brushes thin films

P. Klosowski
- Scientific data visualization
- Numerical computer modeling
- Data acquisition software and hardware

P. A. Kopetka
- Mechanical engineering
- Cold source design
- Electro-mechanical systems

S. T. Krueger
- Structure of biological materials
- SANS and neutron reflectometry methods
- Computer software development

J. G. LaRock
- Mechanical engineering
- Neutron instrumentation design

P. J. Liposky
- Design engineering
- Nuclear systems and components

J. W. Lynn
- Condensed matter physics
- Magnetic and superconducting materials
- Neutron scattering methods

C. F. Majkrzak
- Condensed matter physics
- Polarized neutron scattering and instrumentation development
- Neutron reflectivity measurements

N. C. Maliszewskyj
- Computer software development
- Time-of-flight instrumentation
- Condensed matter physics

J. C. McLaughlin
- Materials chemistry
- Neutron scattering
- Nanoscale properties of cements

A. E. Munter
- Neutron SANS and reflectometry
- Computer software development

T. J. Myers
- Reactor operations
- Safety analysis

D. A. Neumann
- Molecular and layered materials
- Condensed matter physics
- Neutron and X-ray scattering instrumentation

D. J. Pierce
- Mechanical engineering
- Neutron instrumentation design

H. J. Prask
- Residual stress measurement methodology
- Neutron NDE applications and instrumentation

T. M. Raby
- Reactor operations and standards
- Nuclear engineering
- Nuclear systems and components

G. D. Reilly
- Design engineering
- Nuclear systems and components

B. A. Reisner
- Solid state chemistry
- Crystallographic methods
- Neutron scattering

N. Rosov
- Spin echo techniques
- Phase transformations
- Magnetic materials

J. M. Rowe
- Orientationally disordered solids
- Cold source development
- Cold neutron research and instrumentation

J. J. Rush
- Catalysts and molecular materials
- Hydrogen in metals
- Inelastic scattering methods

L. Santodonato
- Condensed matter physics
- Cryogenics

A. Santoro
- Crystal structure of oxide ceramics
- Theory of crystal lattices
- Powder diffraction methods

S. K. Satija
- Low-dimensional molecular systems
- Fractal aspects of microporous media
- Neutron reflectometry

I. G. Schröder
- Cold neutron instrumentation development
- Nuclear and engineering physics
- Optical devices for neutron transport

J. K. Stalick
- Neutron and X-ray diffraction
- Inorganic chemistry
- Crystal database development

M. A. Suthar
- Design engineering
- Nuclear systems and components

B. H. Toby
- Neutron and synchrotron X-ray diffraction
- Zeolite crystallography
- Structure determination methods

J. F. Torrence
- Reactor supervision
- Reactor maintenance
- Nuclear engineering

A. M. Tsai
- Biochemical engineering
- Dynamics of biological systems
- Inelastic neutron scattering

T. J. Udovic
- Neutron time-of-flight instrumentation
- Properties of catalysts and adsorbates
- Hydrogen in metals

S. H. Weiss
- Reactor operations and standards
- Reactor licensing and regulations
- Electrical Engineering

R. E. Williams
- Cold neutron source development
- Nuclear engineering
- Reactor physics simulations

T. Yildrim
- Condensed matter theory
- Neutron scattering methods
- Solid state synthesis

J. B. Ziegler
- Electrical engineering
- Electronic design
- Instrument development