

Oak Ridge Associated Universities/ Oak Ridge Institute for Science and Education

2006 Bibliography

Prepared by

**ORAU Communications, Printing, and Design
P.O. Box 117, MS 44
Oak Ridge, Tennessee 37831-0117
www.ornl.gov/about/pubs**

Table of Contents

Business Operations	
▪ Communications, Printing, and Design	2
Independent Environmental Assessment and Verification	
▪ Atmospheric Turbulence and Diffusion Division	2
▪ Survey Projects and Health Physics	2
National Security and Emergency Management	
▪ Center for Human Reliability Studies	3
Occupational Exposure and Worker Health	4
Professional and Technical Training	4
Radiation Emergency Medicine	
▪ Radiation Emergency Assistance Center/Training Site	6
▪ Cytogenetics Biodosimetry	7
Science Education Programs	7
Scientific and Technical Resource Integration	
▪ University Radioactive Ion Beam Consortium	7
▪ Center of Excellence for Radioactive Ion Beam Studies for Stewardship Science	8

Business Operations (BusOps)

Communications, Printing and Design (CPD)

CPD. *2005 Annual Report*. 05-1320. 2006.

CPD. *ORAU/ORISE 2005 Bibliography*. 05-0157. 2006.

CPD. *ORAU News*, ORAU's Employee Newsletter. January-December, 2006.

Independent Environmental Assessment and Verification (IEAV)

Atmospheric Turbulence and Diffusion Division

Brooks, S.B., A. Saiz-Lopez, H. Skov, S.E. Lindberg, J.M.C. Plane, and M.E. Goodsite. "The mass balance of mercury in the springtime arctic environment." *Geophysical Research Letters*, Vol. 33, L13812, doi:10.1029/2005GL025525. (2006).

Lianhong, G., T.P. Meyers, S.G. Pallardy, P.J. Hanson, B. Yang, M. Heuer, K.P. Hosman, J.S. Riggs, D. Sluss, and S.D. Wullschleger. "Direct and indirect effects of atmospheric conditions and soil moisture on surface energy partitioning revealed by a prolonged drought at a temperate forest site." *Journal of Geophysical Research*, Vol. 111, D16102, doi:10.1029/2006/JD007161. (2006).

Survey Projects and Health Physics

Adams, W. C. *Confirmatory Survey Results for the Turbine and Containment Building Excavations, the Backfill Soil Pile, and Portions of Backfilled Survey Units and Class 3 Impacted Areas at the Big Rock Point Restoration Project, Charlevoix, Michigan*, prepared for the U.S. Nuclear Regulatory Commission, Division of Decommissioning/Waste Management. ORISE 06-1106. September 2006.

Bailey, E. N., and P. C. Weaver. *Independent Verification Survey Summary and Results for the Ashtabula Closure Project, Ashtabula Ohio*. ORISE 06-1661. December 2006.

Morton, J. R., and P. C. Weaver. *Independent Verification Report for the Building K-33, Three Building Decommissioning Project, East Tennessee Technology Park, Oak Ridge, Tennessee*. ORISE 06-1136. June 2006.

Roberts, S. J., and P. C. Weaver. *Independent Verification Survey Summary and Results for the Columbus Closure Project West Jefferson North Site, Revision 1 West Jefferson, Ohio*. ORISE 06-1137. August 2006.

Vitkus, T. J. *Radiological Characterization Survey of the Curtis Bay Depot, Curtis Bay, Maryland*, prepared for the Defense National Stockpile Center Defense Logistics Agency. ORISE 06-1156. July 2006.

Vitkus, T. J. *Radiological Scoping Survey of the Curtis Bay Depot, Curtis Bay, Maryland*, prepared for the Defense National Stockpile Center Defense Logistics Agency. ORISE 06-0185. January 2006.

Vitkus, T. J. *Radiological Characterization Survey of the Hammond Depot, Hammond, Indiana*, prepared for the Defense National Stockpile Center Defense Logistics Agency. ORISE 06-1109. August 2006.

Weaver, P. C. *Independent Verification Survey and In-Process Evaluation Report for the Fernald Closure Project Site, Fernald, Ohio*. ORISE 06-1337. October 2006.

National Security and Emergency Management Program (NSEM)

Center for Human Reliability Studies (CHRS)

CHRS. *Atomic Energy Act of 1954 Section 161(k) Authority to Arm Guards at DOE Non-nuclear Facilities*. ORISE 06-1579. September 2006.

CHRS. *Directory of Employee Assistance Programs at U.S. Department of Energy Contractor Sites: Update 2006*. ORISE 06-1384. October 2006.

CHRS. *Drug Testing Survey at DOE HRP Sites. Prepared for the Office of Security Policy, Office of Health, Safety and Security*. ORISE 06-1634. December 2006.

CHRS. *Extended Research on Detection of Deception Using Volatile Organic Compound (VOC) Emissions: Final Report*. ORISE 06-1690. December 2006.

CHRS. *Human Reliability Program: Detection of Unusual Behavior Instructor's Guide*. ORISE 06-1131. September 2006.

CHRS. *Human Reliability Program: Detection of Unusual Behavior Participant Manual*. ORISE 06-1132. September 2006.

CHRS. *Workplace Drug Testing in Federal Agencies*. ORISE 06-1692. September 2006.

CHRS. *Workplace Violence Awareness: A Handbook*. ORISE 06-0088. January 2006.

CHRS. *Workplace Violence Awareness for Employees*. ORISE 06-1644. August 2006.

CHRS. *Workplace Violence Awareness for Managers and Supervisors*. ORISE 06-1630. August 2006.

CHRS. *Workplace Violence Awareness Instructor Guide for Managers' Workshop*. ORISE 06-1629. August 2006.

Occupational Exposure and Worker Health (OEWH)

Falk, R. B., N. M. Daugherty, J. M. Aldrich, F. J. Furman, D. E. Hilmas. "Application of multi-compartment wound models to plutonium-contaminated wounds incurred by former workers at Rocky Flats." *Health Physics* 91 no. 2 (2006):128-143.

Professional and Technical Training (PTT)

Artley, W. Q. and S. L. Dimmick. *National Aviation Resources Manual for Quarantinable Diseases*. Aviation resource manual prepared for the U.S. Department of Transportation. December 2006.

Brewer, M. J., A. M. Lindsey, and K. Farris. *Conflict Management*. Training module developed for Centers for Disease Control and Prevention, Sustainable Development Management Program. September 2006.

Brewer, M. J., A. M. Lindsey, and K. Farris. *Time and Meeting Management*. Training module developed for Centers for Disease Control and Prevention, Sustainable Development Management Program. September 2006.

DeBinder, D. *Environmental Health Information Outreach Program Proceedings: January 11, 2006*. Meeting summary document. December 2006.

DeBinder, D. *Environmental Health Information Outreach Program Proceedings: June 12, 2006*. Meeting summary document. December 2006.

Doty, C., R. Foster, and W. Templin-Branner. *Empowering Tribal Communities with Health Information*. Training manual update. Training conducted for Chickasaw Tribal and local community health professionals. Ada, Okla. January 26, 2006.

Doty, C., W. Templin-Branner, and R. Foster. *Empowering Communities with Health Information*. Training manual update. Training conducted as part of the United Negro College Fund Special Programs/National Library of Medicine-HBCU ACCESS Project. Training conducted at Howard University in Washington, D.C. June 22, 2006.

Foster, R. *NLM Web Resources for Health Professionals*. Presentation conducted for the National Medical Association Regions V-VI Combined Annual Meeting. Montego Bay, Jamaica. May 4, 2006.

Foster, R., and W. Templin-Branner. *Plugging Into a Healthy Community: Accessing the National Library of Medicine Minority Health Resources*. Presented at the 11th Annual Health Summit of Minority Communities, Knoxville, Tenn., August 17, 2006.

Foster, R., W. Templin-Branner, and C. Doty. *The National Library of Medicine: Web Resources for Environmental Health Research*. Training manual update. A workshop conducted at Jackson State University's Third International Symposium on Recent Advances in Environmental Health Research. Jackson, Miss. September 17, 2006.

- Janssen, Alan P., R. R. Tardif, and M. Herring. *A Qualitative Assessment of Issues Influencing Acceptance of a New Rotavirus Vaccine*. Centers for Disease Control and Prevention. April 2006.
- Janssen, Alan P., R. R. Tardif, S. R. Landry, and Jo Ellen Warner. "Why Tell Me Now?" The Public and Healthcare Providers Weigh in on Pandemic Influenza Messages. *Journal of Public Health Management and Practice* 12 no. 4 (2006): 388-394.
- McFalls, D. *Hazard Conclusion Category Messages Top-Line Review Report*. Centers for Disease Control and Prevention, Agency for Toxic Substances and Disease Registry, Division of Health Assessment and Consultation. November 2006.
- Tardif, R. R. *A Qualitative Assessment of Pandemic Influenza Issues: Vaccine strategies, bird flu issues, preparatory actions, mask fact sheets, and first wild bird scenario fact sheets*. U.S. Department of Health and Human Services, Office of the Assistant Secretary for Public Affairs; Centers for Disease Control and Prevention, National Immunization Program; and the Oak Ridge Institute for Science and Education. September 2006.
- Tardif, R. R. "Pandemic Influenza – Past, Present and Future: Communicating today based on the lessons of the 1918-1919 influenza pandemic. Workshop Proceedings." Washington, D.C. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. October 2006.
- Taylor, D. (ORISE consultant), W. Templin-Branner, and D. DeBinder. *CHRIS Consumer Health Lay Ministry Training*. Training handouts. Training conducted for the Consumer Health Resource Information Service (CHRIS) Program coordinators. Oak Ridge, Tennessee. March 10, 2006.
- Templin-Branner, W., C. Doty, R. Womble, and R. Foster. *NLM Web Resources in Biomedicine*. Presented at the Association of Minority Health Professions Schools' Annual Symposium on Career Opportunities in Biomedical Sciences and Health Professions, Houston, Texas, April 14, 2006.
- Templin-Branner, W., *NLM Web Resources for Health Professionals*. Presented at the National Medical Association Region III Annual Meeting, San Juan, P.R., June 3, 2006.
- Templin-Branner, W., *Environmental Health and Toxicology Information Resources from the National Library of Medicine*. Training manual update. A workshop conducted for the Special Libraries Association Annual Conference. Baltimore, Md. June 10, 2006.
- Templin-Branner, W., R. Womble, C. Doty, and R. Foster. *Web Resources for Student Health Professionals*. Training manual update. Training conducted for the Student National Medical Association medical mission trip. Bethesda, Md. July 7, 2006.
- Templin-Branner, W., R. Womble, and C. Doty. *The National Library of Medicine: Your Link to Medical Information*. Training manual update. Training conducted for the National Black Nurses Association Annual Conference. Ft. Lauderdale, Fla. August 10, 2006.

- Templin-Branner, W., and S. Publicker (National Library of Medicine). *Researching Environmental Health at the National Library of Medicine*. Training manual. The workshop was conducted by Stephanie Publicker, National Library of Medicine, for the Connecticut Coalition for Environmental Justice. Capital Community College, Hartford, Conn. October 21, 2006.
- Viator, Denise. *Human Subjects Protection Resource Book*. U.S. Department of Energy, U.S. Department of Defense, and the U.S. Department of Veterans Affairs. June 2006.
- Womble, R. *CHRIS: A Faith-based Approach to Addressing Health Disparities*. Presented at the Office of Minority Health National Leadership Summit on Eliminating Racial and Ethnic Disparities in Health, Washington, D.C., January 10, 2006.
- Womble, R. and C. Doty. *National Library of Medicine Web Resources for Faith-based Ministries*. Training manual update. Training conducted for the Consumer Health Resource Information Service (CHRIS) Program coordinators. Oak Ridge, Tenn. March 11, 2006.
- Womble, R., W. Templin-Branner, and R. Foster. *Empowering Communities with Health Information*. Training manual update. HIV/AIDS health focus. Training conducted as part of the United Negro College Fund Special Programs/National Library of Medicine-HBCU ACCESS Project. Training conducted for Norfolk State University in Norfolk, Va., on October 31, 2006, and Jackson State University in Jackson, Miss., on November 14, 2006.
- Womble, R., W. Templin-Branner, and R. Foster. *Empowering Communities with Health Information*. Training manual update. Environmental health focus. Training conducted as part of the United Negro College Fund Special Programs/National Library of Medicine-HBCU ACCESS Project. Training conducted for Winston-Salem State University in Winston-Salem, N.C., on November 3, 2006, and Langston University in Langston, Okla., on November 9, 2006.

Radiation Emergency Medicine (REM)

Radiation Emergency Assistance Center/Training Site (REAC/TS)

- Berger, M. E., D. M. Christensen, P. C. Lowry, O. W. Jones, and A. L. Wiley. "Medical management of radiation injuries: current approaches." *Occupational Medicine* no. 56 (2006): 162-172.
- Christensen, D. M., Sugarman, S., Herson, C. and E. Boyer. "Case Files of the University of Massachusetts Fellowship in Medical Toxicology: Three Patients with an Industrial Radiography Source Exposure." *Journal of Medical Toxicology*, 2 no. 4 (2006): 163-168.

Cytogenetics Biodosimetry

Livingston, G. K., R. B. Falk, and E. Schmid. "Effect of Occupational Radiation Exposures on Chromosome Aberration Rates in Former Plutonium Workers." *Radiation Research*, 166, no. 1 (2006): 89–97.

Livingston G. K., M. S. Jenkins, and A. A. Awa. "An Automated Method to Quantify Radiation Damage in Human Blood Cells." Paper presented at the 2nd International Conference on Biodosimetry and 7th International Symposium on ESR Dosimetry and Applications, Bethesda, Md., July 10-13, 2006.

Science Education Programs (SEP)

SEP. *Health Physics Enrollments and Degrees Survey, 2005 Data*. 2006.

SEP. *Nuclear Engineering Enrollments and Degrees Survey, 2005 Data*. 2006.

SEP. *Review of 1953-2003 ORAU Follow-Up Studies on Science Education Programs: Impacts on Participants' Education and Careers*. 2006.

SEP. *Salary Information for Health Physicists and Nuclear Engineers*. June 2006.

SEP. *U.S. Department of Energy Global Change Fellowships, 1991-2006: Participant Follow-Up*. 2006.

Scientific and Technical Resource Integration (STRI)

University Radioactive Ion Beam Consortium (UNIRIB)

Batchelder, J.C., C. R. Bingham, T. N. Ginter, C. J. Gross, R. Grzywacz, J. H. Hamilton, M. Karny, W. Krolas, C. Mazzocchi, A. Piechaczek, K. Rykaczewski, M. N. Tantawy, J. A. Winger, and E. F. Zganjar. "Studies of Fine Structure Decay in Proton Emitters at the Holifield Radioactive Ion Beam Facility." International Symposium on Exotic Nuclei, Peterhof, Russia, July 5-12, 2004, World Scientific Publishing Co. Pte. Ltd. (2005) pp 479.

Daniel, A.V., J. H. Hamilton, A. B. Ramayya, A. S. Fomichev, Yu. Ts. Oganessian, G. S. Popeko, A. M. Rodin, G. M. Ter-Akopian, J. K. Hwang, D. Fong, C. Goodin, K. Li, J. O. Rasmussen, D. Seweryniak, M. Carpenter, C. J. Lister, S. H. Zhu, R. V. F. Janssens, J. Batchelder, J. Kliman, L. Krupa, W-C. Ma, S. J. Zhu, L. Chaturvedi, and J. D. Cole. "Experiment Aimed at the Study of ²⁵²Cf Binary and Ternary Fission." *Phys. Atomic Nuclei*, 69, 1405 (2006).

Liddick, S. N., R. Grzywacz, C. Mazzocchi, R. D. Page, K. P. Rykaczewski, J. C. Batchelder, C. R. Bingham, I. G. Draby, G. Drafta, C. Goodin, C. J. Gross, J. H. Hamilton, A. A. Hecht, J. K. Hwang, D. T. Joss, A. Korgul, W. Kr'olas, K. Lagergren, K. Li, M. N. Tantawy, J. Thomson, and J. A. Winger. "Discovery of ^{109}Xe and ^{105}Te : Superaligned a Decay near Doubly Magic ^{100}Sn ." *Phys. Rev Letters*, 97, (2006) 082501.

Tantawy, M. N., C. R. Bingham, K. P. Rykaczewski, J. C. Batchelder, W. Krolas, M. Danchev, D. Fong, T. N. Ginter, C. J. Gross, R. Grzywacz, K. Hagino, J. H. Hamilton, D. J. Hartley, M. Karny, K. Li, c. Mazzocchi, A. Piechaczek, A. V. Ramayya, D. Shapira, A. Stolz, J. A. Winger, C. H. Yu, and E. F. Zganjar. "Systematics of Isomeric Configurations in N-77 odd-Z isotones Near the Proton Drip Line." *Phys. Rev. C* 73, (2006) 024316.

Winger, J.A., P. G. Mantica, and R. M. Ronningen. "The β decay of $^{40,42}\text{S}$ and ^{43}Cl ." *Phys. Rev. C* 73, (2006) 044318.

Center of Excellence for Radioactive Ion Beam Studies for Stewardship Science

Bardayan, D. W. "Recent Astrophysical Studies with Exotic Beams at ORNL." *Eur. Phys. Journal*, A27, s. 01, 97 (2006).

Bardayan, D. W., J. A. Howard, J. C. Blackmon, C. R. Brune, K. Y. Chae, W. R. Hix, M. S. Johnson, K. L. Jones, R. L. Kozub, J. F. Liang, E. J. Lingerfelt, R. J. Livesay, S. D. Pain, J. P. Scott, M. S. Smith, J. S. Thomas, and D. W. Visser. "Astrophysically Important ^{26}Si States Studied with the $^{28}\text{Si}(p,t)^{26}\text{Si}$ Reaction. II. Spin of the 5.914-MeV ^{26}Si Level and Galactic ^{26}Al Production." *Phys. Rev.*, C74, (2006) 045804.

Chae, K.Y., D.W. Bardayan, J.C. Blackmon, D. Gregory, M.W. Guidry, M.S. Johnson, R.L. Kozub, R.J. Livesay, Z. Ma, C.D. Nesaraja, S.D. Pain, S. Paulauskas, M. Porter-Peden, J.F. Shriner Jr., N. Smith, M.S. Smith, and J.S. Thomas. "First experimental constraints on the interference of $3/2^+$ resonances in the $^{18}\text{F}(p,\alpha)^{15}\text{O}$ reaction." *Phys. Rev.*, C74, (2006) 012801(R).

Cizewski, J.A., K.L. Jones, S.D. Pain, J.S. Thomas, D.W. Bardayan, J.C. Blackmon, M.S. Smith, R.L. Kozub, M.S. Johnson, and A. Aprahamian (ed). "Neutron-Transfer Reactions with Exotic Neutron-Rich Beams: Surrogates for Neutron-Capture Reactions." *A/P Cong. Proc.* 819, (2006) 209.

Kozub, R.L., D.W. Bardayan, J.C. Batchelder, J.C. Blackmon, C.R. Brune, A.E. Champagne, J.A. Cizewski, U. Greife, C.J. Gross, C.C. Jewett, R.J. Livesay, Z. Ma, B.H. Moazen, C.D. Nesaraja, L. Sahin, J.P. Scott, D. Shapira, M.S. Smith, and J.S. Thomas. "Neutron Single Particle Strengths From the (d,p) Reaction on ^{18}F ." *Phys. Rev. C* 73, (2006) 044307.