

## **Appendices**

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Division Demographics

Budget

Open Literature Publications

ORNL and Miscellaneous Reports

Presentations

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Invention Disclosures

Staff Honors, Awards, External Appointments, and Conference Participation

Advisory Committee

Organization Chart

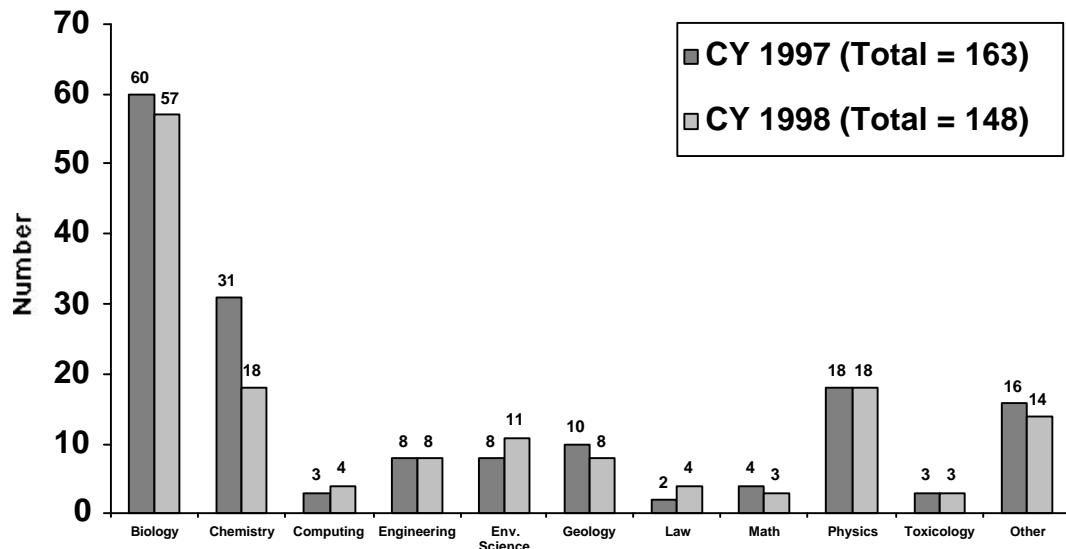
## Division Demographics

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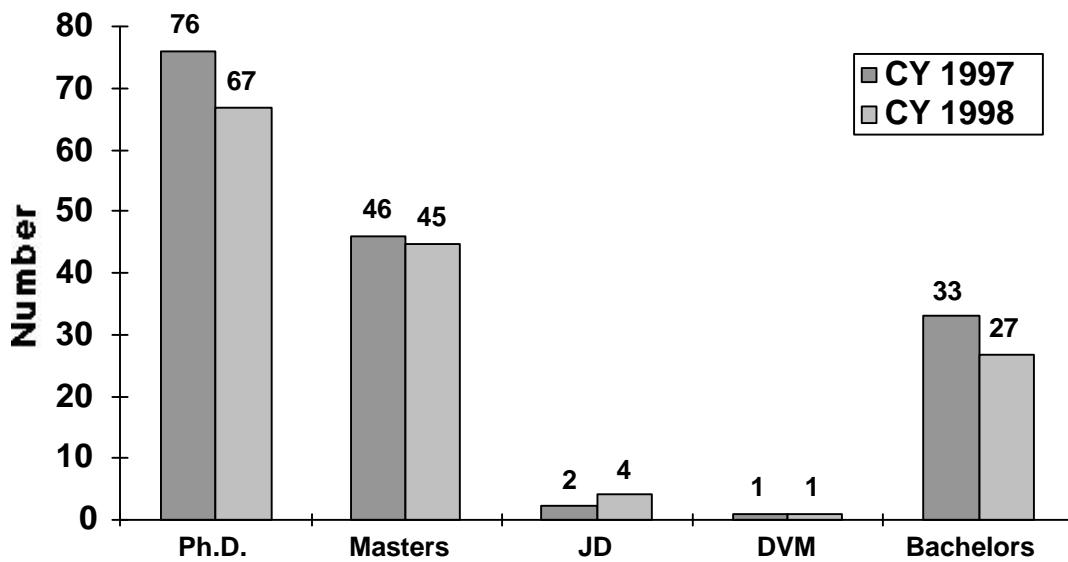
Professional Staff by Discipline

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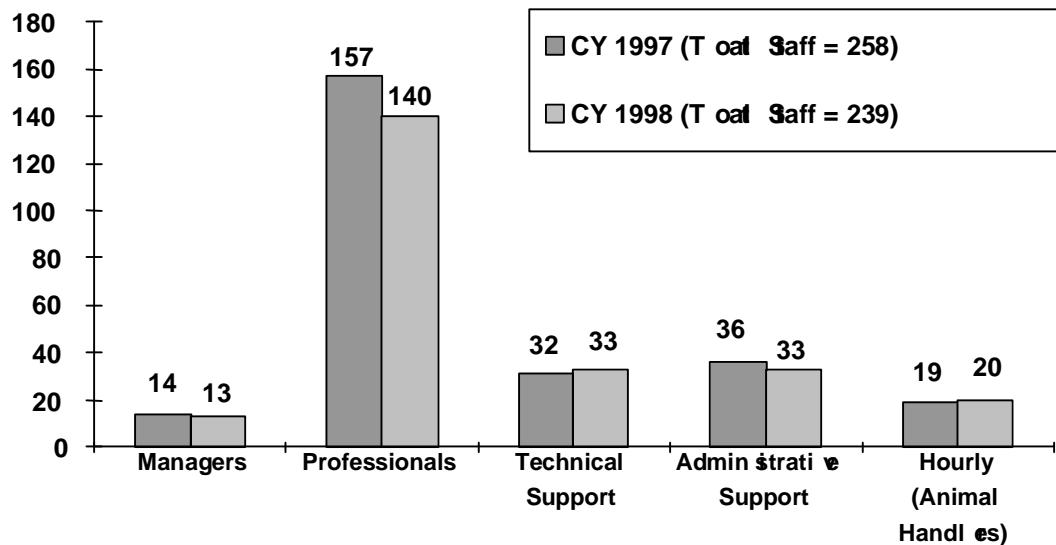
Professional Staff by Degree

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## Division Staff by Type

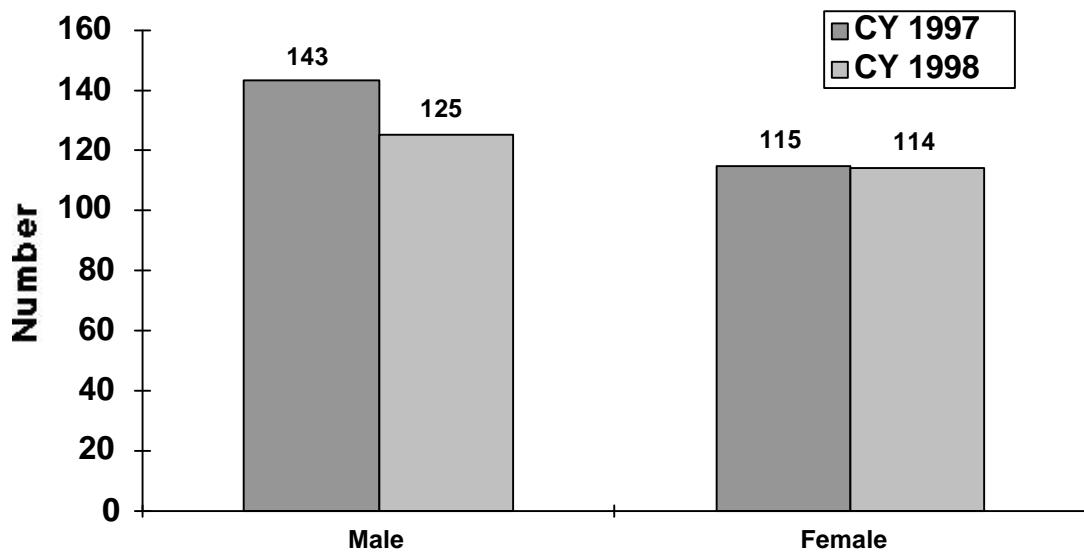
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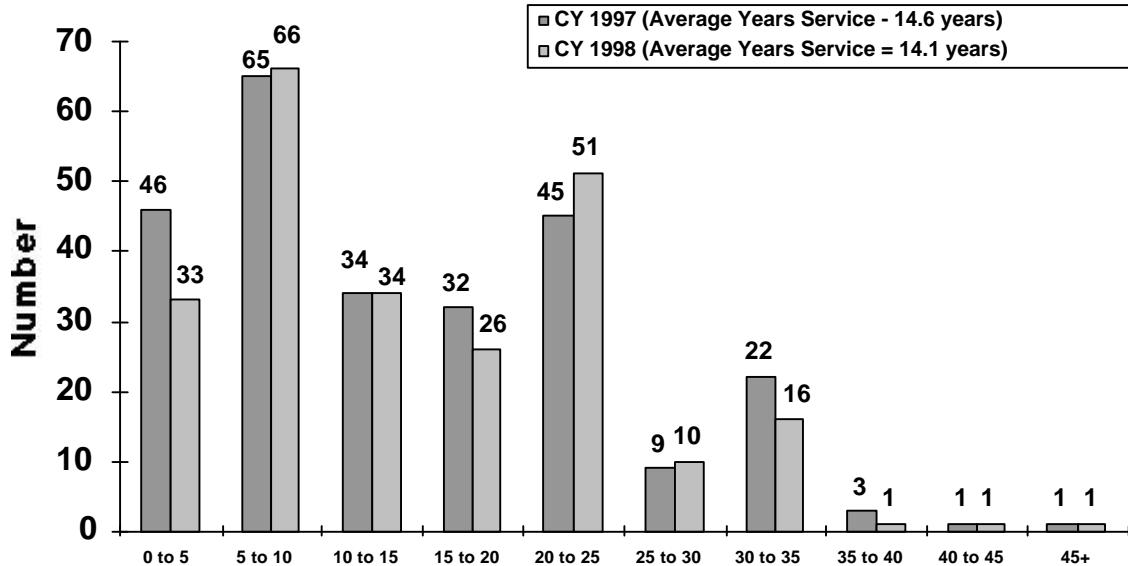
## Division Staff by Gender

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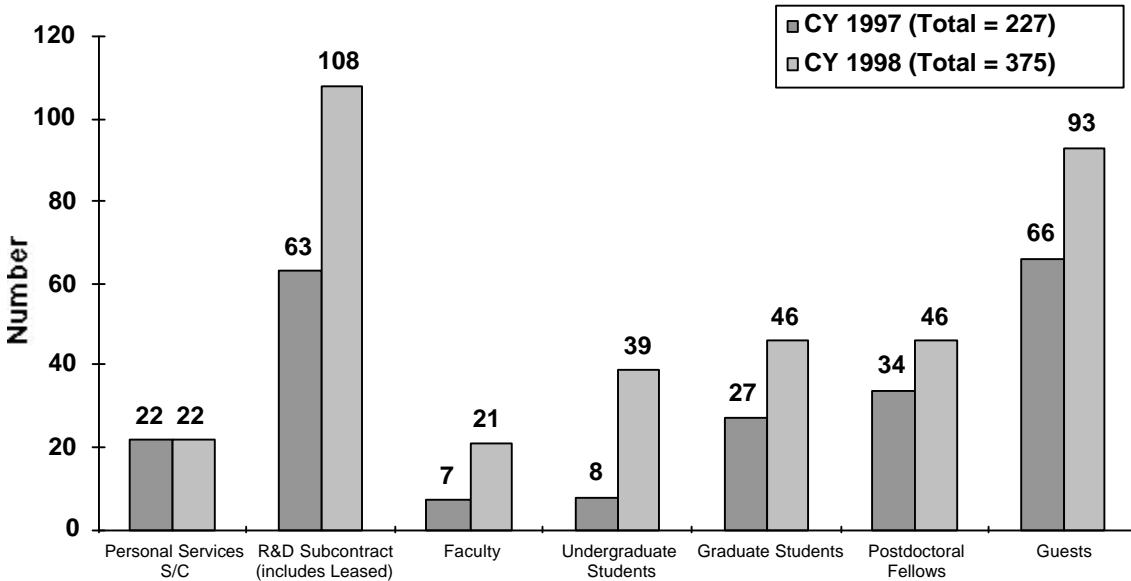
## Division by Years of Service

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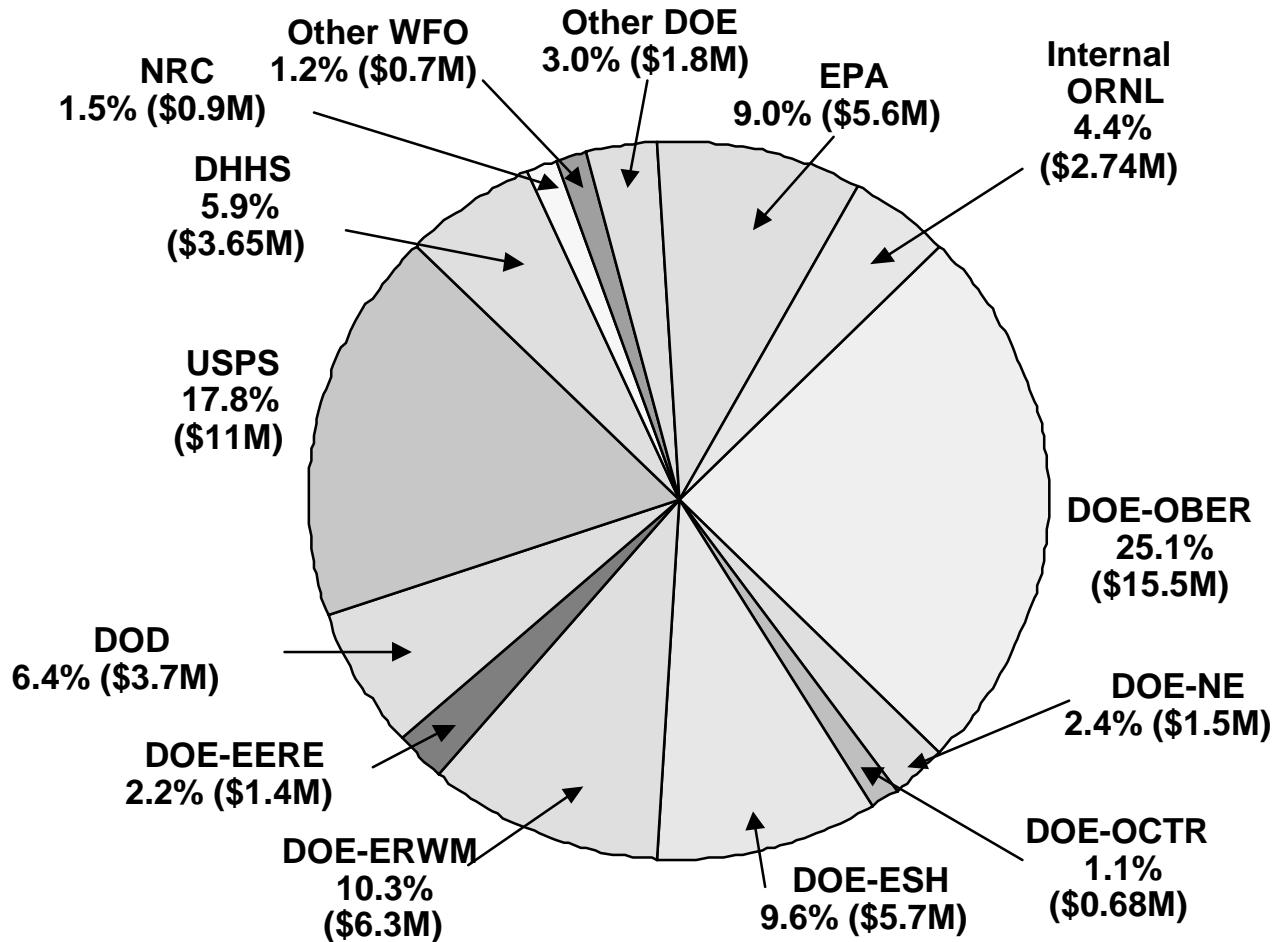
## Subcontractors and Guests

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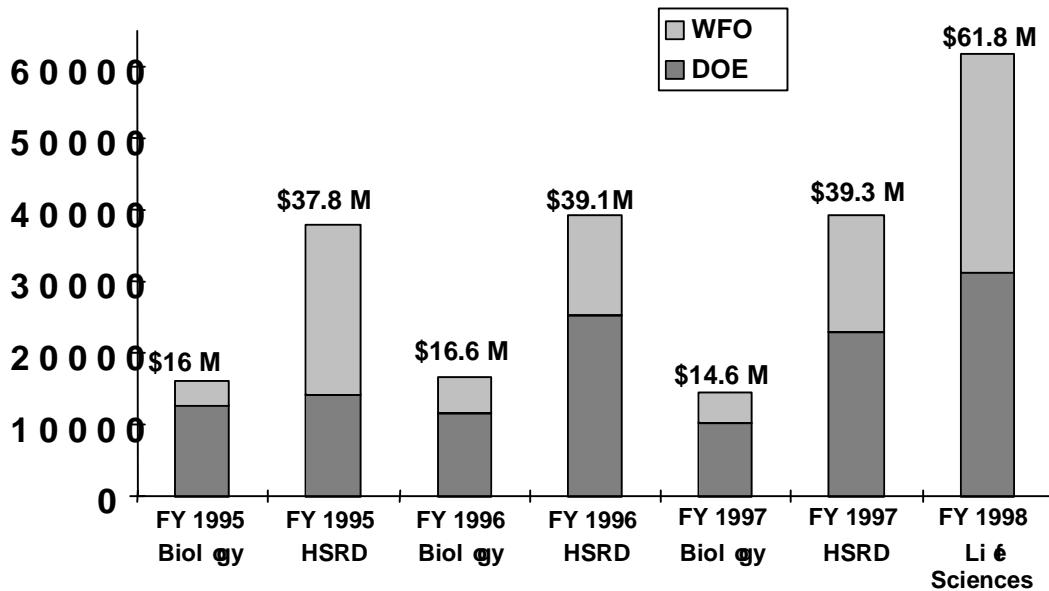
## Division Budget — Major Funding Source, FY 1998

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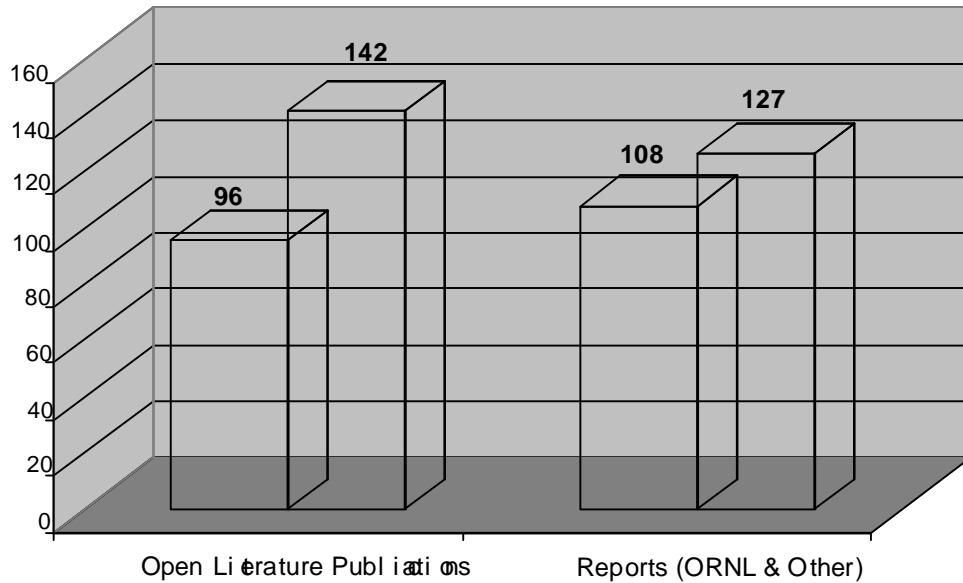
## Division Budget — History

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## Division Publications

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1997

Total Publications = 204  
Publications per S&T = 1.34

1998

Total Publications = 269  
Publications per S&T = 1.76

## Open Literature Publications, CY 1997–1998

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- Harp, J. M., D. E. Timm, and G. J. Bunick, "Protein Crystal Annealing: Overcoming Increased Mosaicity Associated with Cryocrystallography," presented at the Annual Meeting of American Crystallographic Association, St. Louis, MO, July 19-25, 1997.
- Harpel, M. R., F. W. Larimer, and F. C. Hartman, "Covalent Chemical Rescue of *Rhodospirillum rubrum* Ribulose 1,5-Bisphosphate Carboxylase/Oxygenase (Rubisco) Mutants," presented at the 17th International Congress of Biochemistry and Molecular Biology, San Francisco, CA, August 24, 1997.
- Hartman, F. C., Y.-R. Chen, T.-Y. S. Lu, and F. W. Larimer, "Characterization of Recombinant Spinach Ribulose-5-Phosphate 3-Epimerase (Ru5P Epimerase)," presented at the 12th Symposium of the Protein Society, San Diego, CA, July 25-29, 1998.
- Hettich, R. L., A. Lahamer, and R. Compton, "Characterization of the Fragmentation and Reactivity of Endohedral Fullerenes with FTICR," presented at the 46th American Society of Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Orlando, FL, May 31-June 4, 1998.
- Hingerty, B. E., S. B. Singh, and S. Broyde, "DNA - The Molecule, State of the Art," presented at the Meeting of the American Chemical Society, Symposium on DNA - The Molecule, State of the Art, Dallas, TX, March 30, 1998.
- Hoyt, P. R., D. P. Allison, M. J. Doktycz, and R. J. Warmack, "Resolving Proteins Bound to Individual DNA Molecules by Atomic Force Microscopy," presented at Biomarkers, The Genome and the Individual, Charleston, SC, May 4-8, 1997.
- Hu, Z., P. I. Oden, T. Thundat, and R. J. Warmack, "Real-Time Mercury and Hydrogen Vapor Detection Using Microcantilever Sensors," presented at the March Meeting of the American Physics Society, Los Angeles, CA, March 16-20, 1998.
- Hurst, G. B., K. Weaver, M. Doktycz, and M. V. Buchanan, "Analysis of PCR Products Using Delayed-Extraction MALDI-TOF," presented at the 45th American Society of Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Palm Springs, CA, June 1-5, 1997 (Invited).
- Hurst, G. B., K. Weaver, M. J. Doktycz, M. V. Buchanan, A. M. Costello, and M. E. Lidstrom, "TOF-MS Detection of PCR Products," presented at the 10th Sanibel Conference on Mass Spectrometry, Sanibel Island, FL, American Society of Mass Spectrometry, January 24-27, 1998.
- Hurst, G. B., K. Weaver, M. Doktycz, M. V. Buchanan, A. M. Costello, and M. E. Lidstrom, "Identification of Methanotrophic Bacteria Using the Polymerase Chain Reaction with MALDI-TOF Detection," presented at the 46th American Society of Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Orlando, FL, May 31-June 4, 1998.
- Jacobson, K. B., L. J. Stubbs, D. P. Allison, R. P. Woychik, M. J. Justice, D. K. Johnson, E. C. Uberbacher, J. M. Ramsey, K. L. Beattie, and T. Vo-Dinh, "The Mouse/Human Genome Program at the Oak Ridge National Laboratory," presented at the Human Genome and Gene Theory Symposium, Seoul, South Korea, May 28, 1997 (Invited).
- Jacobson, K. B., L. J. Stubbs, D. P. Allison, R. P. Woychik, M. J. Justice, D. K. Johnson, E. C. Uberbacher, J. M. Ramsey, K. L. Beattie, and T. Vo-Dinh, "The Mouse/Human Genome Program at the Oak Ridge National Laboratory," presented at the 3rd International Engelhardt Symposium on Molecular Biology, Moscow, Russia, June 9, 1997 (Invited).
- Ji, Y., M. J. Walkowicz, E. M. Rinchik, J. M. Amos-Landgraf, R. E. Tarvin, K. Buiting, B. Horsthemke, D. K. Johnson, L. Stubbs, and R. D. Nicholls, "The Ancestral Gene for the Prader-Willi and Angelman Syndrome END Repeat Element Encodes a Giant Protein and Causes the jdf2 Syndrome in Mouse," presented at the International Chromosome 15 Workshop (SCW15), Baltimore, MD, October 28, 1997 (Invited).
- Johnson, D. K., M. J. Justice, K. L. Beattie, M. V. Buchanan, M. Ramsey, L. R. Ramsey, M. J. Paulus, M. N. Ericson, D. P. Allison, D. L. Kress, R. J. Mural, E. C. Uberbacher, and R. C. Mann, "The Functional Genomics Initiative at Oak Ridge National Laboratory," presented at the 6th DOE Contractor and Grantee Workshop, Santa Fe, NM, November 9-13, 1997 (Invited).

- Johnson, D. K., "Mouse Genetics and Mutagenesis at ORNL," presented at the Partnering for Functional Genomics Workshop, ORNL, Oak Ridge, TN, April 16, 1998 (Invited).
- Jung, C.-H., T.-Y. S. Lu, and F. W. Larimer, "Heterologous Expression and Characterization of Ribose-5-Phosphate Isomerase from Spinach," presented at the Annual Meeting of the American Society of Biochemical Molecular Biology, Washington, DC, May 16-20, 1998.
- Justice, M. J. and D. A. Carpenter, "Generating Allelic Series at 'Beige' and 'Satin' by ENU Mutagenesis," presented at the 11th International Mouse Genome Conference, St. Petersburg, FL, October 12, 1997 (Invited).
- Justice, M. J., G. M. Hansen, B. Sheppard, and T. Shountz, "Using Retroviral Tags to Identify Cancer Susceptibility Genes in Mouse AKXD B-Cell Lymphomas," presented at the 11th International Mouse Genome Conf., St. Petersburg, FL, October 16, 1997 (Invited).
- Katkov, I. I. and P. Mazur, "Influence of Centrifugation on Motility, Yield, and Cell Associations of Mouse Spermatozoa," presented at the 34th Annual Meeting of the Society of Cryobiology, Barcelona, Spain, June 8, 1997 (Invited).
- Katkov, I. I. and P. Mazur, "Factors Affecting Yield and Survival of Cells When Suspensions Are Subjected to Centrifugation," presented at the 34th Annual Meeting of the Society of Cryobiology, Barcelona, Spain, June 8, 1997 (Invited).
- Kerr, G. D., "A Review of Biologically and Physically Related Dosimetric Data for Hiroshima," presented at the 43rd Annual Meeting of the Health Physics Society, Minneapolis, MN, July 12-16, 1998.
- Kerr, G. D., "Chromosome Aberrations and Neutron Doses at Hiroshima," presented at the 47th Annual Scientific Meeting of the Radiation Research Society, Louisville, KY, April 25-29, 1998.
- Knapp, F. F., Jr., A. L. Beets, S. Mirzadeh, and S. Guhlke, "Use of a New Tandem Cation/Anion Exchange System with Clinical-Scale Generators Provides High Specific Volume Solutions of Technetium-99m and Rhenium-188," presented at International Trends in Radiopharmaceuticals Diagnosis and Therapy, Lisbon, Portugal, March 30-April 3, 1997.
- Knapp, F. F., Jr., "Coronary Irradiation with Beta-Emitting Radioisotopes to Inhibit Restenosis After PTCA - An Old Therapy for a New Problem," presented at the Symposium on Accelerating Nuclear Medicine, Richland, WA, April 19-24, 1997 (Invited).
- Knapp, F. F., Jr. and the Nuclear Medicine Group, "Therapeutic Clinical Applications of Reactor-Produced Radioisotopes," presented at the American Nuclear Society Symposium on Isotope Production and Applications, Albuquerque, NM, November 16-20, 1997 (Invited).
- Knapp, F. F., Jr., "The Development and Use of Radionuclide Generators in Nuclear Medicine - Recent Advances and Future Perspectives," presented at the International Symposium on Modern Trends in Radiopharmaceuticals for Diagnosis and Therapy, Lisbon, Portugal, March 30-April 3, 1998 (Invited).
- Knapp, F. F., Jr., "Overview of the Production of Therapeutic Medical Radioisotopes in the ORNL HFIR for Applications in Oncology, Nuclear Medicine and Interventional Cardiology," presented to the Department of Nuclear Medicine, University Hospital, Vienna, Austria, April 6, 1998 (Invited).
- Knapp, F. F., Jr., "Overview of the Production of Therapeutic Medical Radioisotopes in the ORNL HFIR for Applications in Oncology, Nuclear Medicine and Interventional Cardiology," presented at the Hungarian Academy of Sciences, in conjunction with Department of Nuclear Medicine, Albert Svent Georgi Medical University, Szeged, Hungary, April 9, 1998 (Invited).
- Knapp, F. F., Jr., A. L. Beets, S. Mirzadeh, C. W. Alexander, and R. L. Hobbs, "Production of Medical Radioisotopes in the ORNL High Flux Isotope Reactor (HFIR) for Cancer Treatment and Arterial Restenosis Therapy After PTCA," presented at the 13th Radiochemical Conference, Marianzke Lazne, Czech Republic, April 19-24, 1998 (Invited).

- Knapp, F. F., Jr., "Radioisotopes for Cancer Therapy - The Importance and Availability of Reactor-Produced Radioisotopes," presented at the 8th Mediterranean Meeting on Nuclear Medicine and Radiopharmaceuticals for Oncology, Rome, Italy, May 19-24, 1998.
- Knapp, F. F., Jr., A. L. Beets, S. Guhlke, H.-J. Biersack, K. N. Gledd, C. Marboe, H. Amols, and J. Weinberger, "Rhenium-188 Liquid-Filled Balloons Effectively Inhibit Restenosis in a Swine Coronary Overstretch Model - A Simple New Method Bridging Nuclear Medicine and Interventional Cardiology," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.
- Knapp, F. F., Jr., "Reactor-Produced Radioisotopes for Therapeutic Applications," presented at Mallinckrodt Medical, Inc., St. Louis, MO, August 11, 1998 (Invited).
- Knapp, F. F., Jr., "Development and Use of the ORNL Alumina-Base Tungsten-188/Rhenium-188 Generator System," presented at Mallinckrodt Medical, Inc., St. Louis, MO, August 11, 1998 (Invited).
- Knapp, F. F., Jr., A. L. Beets, S. Guhlke, H.-J. Biersack, M. Stabin, and R. E. Spencer, "Liquid-Filled Balloons for Coronary Restenosis Therapy - Strategy and Dosimetry for Use of Rhenium-188," presented at the Joint World Federation of Nuclear Medicine (WFNM&B) and European Assoc. of Nuclear Medicine (EANM), Berlin, Germany, August 30, 1998.
- Knapp, F. F., Jr., "Production of Therapeutic Radioisotopes," presented at the Pre-Congress Symposium on New Strategies for Radioimmunotherapy and Radioreceptortherapy, Berlin, Germany, August 31, 1998 (Invited).
- Knapp, F. F., Jr., "Opening Remarks and Introduction of the Symposium," presented at the Symposium on Radiopharmaceuticals and Radiopharmacy, Berlin, Germany, September 2, 1998 (Invited).
- Knapp, F. F., Jr. and J. H. Kropp, "Opening Remarks," presented at the Symposium on Radioiodinated Free Fatty Acids, Dresden, Germany, September 6, 1998 (Invited).
- Kocher, D. C., "NCRP Recommendations on Risk-Based Classification for Radioactive and Hazardous Chemical Wastes," presented at the meeting of East Tennessee Chapter of Health Physics Society, Oak Ridge, TN, January 21, 1997 (Invited).
- Kocher, D. C., "Dose Coefficients for Internal and External Exposure," presented at Radiological Assessments Corporation short course on *Calculating and Understanding Risk from Radionuclides Released to the Environment*, Santa Fe, NM, April 30, 1997 (Invited).
- Kocher, D. C., "Regulations for Radionuclides and Hazardous Chemicals in the Environment," presented at Radiological Assessments Corporation short course on *Calculating and Understanding Risk from Radionuclides Released to the Environment*, Santa Fe, NM, April 30, 1997 (Invited).
- Kocher, D. C., "Context for Performance Assessment," presented at the DOE Low-Level Waste Management Conference, Salt Lake City, UT, May 20-22, 1997 (Invited).
- Kocher, D. C., "Sources, Classification, and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Harvard School of Public Health short course on *Management and Disposal of Radioactive Wastes*, Boston, MA, June 16, 1997 (Invited).
- Kocher, D. C., "Classification and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Professional Enrichment Program of Health Physics Society, San Antonio, TX, June 29, 1997 (Invited).
- Kocher, D. C., "NCRP Study on Risk-Based Classification for Radioactive and Hazardous Chemical Wastes," presented at National Research Council Board on Radioactive Waste Management meeting on New Developments in Low-Level/Low-Activity Waste Management and Disposal, Washington, DC, July 17, 1997 (Invited).
- Kocher, D. C., "Review of Standards for Limitation of Radiation Dose to Radiation Workers and Members of the Public and Laws and Regulations and Hazardous Chemicals in the Workplace and the Environment," presented at The University of Tennessee, Department of Nuclear Engineering short course on *Radiological Assessment*, Knoxville, TN, August 18, 1997 (Invited).

- Kocher, D. C., "Review of Standards for Limitation of Radiation Dose to Radiation Workers and Members of the Public and Laws and Regulations and Hazardous Chemicals in the Workplace and the Environment," presented at Colorado State University, Department of Radiological Health Sciences course on *Radiation Public Health*, Fort Collins, CO, March 5, 1998 (Invited).
- Kocher, D. C., "Disposal of Radioactive Wastes—Review of Legal and Regulatory Requirements," presented at Colorado State University, Department of Radiological Health Sciences course on *Radiation Public Health*, Fort Collins, CO, March 6, 1998 (Invited).
- Kocher, D. C., "Regulation of Public Exposures to Radionuclides and Hazardous Chemicals: Seeking Common Ground," presented at Rutgers University, Environmental and Occupational Health Sciences Institute, Piscataway, NJ, May 6, 1998 (Invited).
- Kocher, D. C., "Sources, Classifications, and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Harvard School of Public Health short course on *Management and Disposal of Radioactive Wastes*, Boston, MA, June 15, 1998 (Invited).
- Kocher, D. C., "Classification and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Professional Enrichment Program of Health Physics Society, Minneapolis, MN, July 12, 1998 (Invited).
- Kocher, D. C., "Current Approaches to Regulating Public Exposures to Radionuclides and Hazardous Chemicals," presented at Professional Enrichment Program of Health Physics Society, Minneapolis, MN, July 14, 1998 (Invited).
- Kocher, D. C., "U.S. Regulatory Approaches to Residual Radioactive Material," presented at the International Conference on Topical Issues in Nuclear, Radiation, and Radioactive Waste Safety, Vienna, Austria, International Atomic Energy Agency, August 31-September 4, 1998 (Invited).
- Kocher, D. C., "Classification and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Moeller and Associates short course on *Management and Disposal of Radioactive Wastes*, Idaho National Engineering and Environmental Laboratory, Idaho Falls, ID, September 21, 1998 (Invited).
- Kocher, D. C., "Assessment of Radiation Doses from Consumer Products," presented at Department of Physics, Idaho State University, Pocatello, ID, October 5, 1998 (Invited).
- Kocher, D. C., "Regulations for Management and Disposal of Radioactive Wastes," presented at Idaho State University, Department of Physics course on *Radiation Regulations*, Pocatello, ID, October 6, 1998 (Invited).
- Kocher, D. C., "Classification and Disposal of Radioactive Wastes—History and Legal and Regulatory Requirements," presented at Moeller and Associates short course on *Management and Disposal of Radioactive Wastes*, U.S. Department of Energy Oak Ridge Operations, December 7, 1998 (Invited).
- Kocher, D. C., G. D. Kerr, J. S. Bogard, P. A. Scofield, F. R. O'Donnell, S. J. Cotter, and C. R. Mattsen, "Systematic Assessment of Exemptions for Source and Byproduct Materials," presented at the Annual Meeting of the Health Physics Society, Minneapolis, MN, July 12-16, 1998.
- Kocher, D. C. and K. F. Eckerman, "On the Use of Age-Specific Effective Dose Coefficients in Radiation Protection of the Public," presented at the International Conference on Topical Issues in Nuclear, Radiation, and Radioactive Waste Safety, Vienna, Austria, International Atomic Energy Agency, August 31-September 4, 1998.
- Kotzerke, J., M. Rentschler, G. Glatting, E. Schneider, F. F. Knapp, Jr., and S. N. Reske, "Radiation Dose Measurements of a Balloon Catheter Filled with Liquid RE-188 by Means of a TLD-System," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.
- Kotzerke, J., S. Fenchel, A. Guhlmann, M. Stabin, F. F. Knapp, Jr., and S. N. Reske, "Pharmacokinetics of TC-99M-Pertechnetate and RE-188-Perrhenate After Oral Application of Perchlorate - Significant Radiation

Reduction Achievable," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.

Kressin, M. D., P. D. Schreuders, and P. Mazur, "Effects on Motility and Aster Formation of Mouse Spermatozoa from a Reduction in Oxygen Concentration by Oxyrase<sup>TM</sup>, an E. Coli Membrane Preparation," presented at the 34th Annual Meeting of the Society of Cryobiology, Barcelona, Spain, June 8, 1997 (Invited).

Larimer, F. W., C.-H. Jung, Y.-R. Chen, and F. C. Hartman, "Heterologous Overexpression of Pentose-5-Phosphate Isomerase and Pentose-5-Phosphate 3-Epimerase from Methanococcus jannashii," presented at the Conference on Microbial Genomes, Hilton Head, SC, January 31-February 3, 1998.

Larimer, F., R. Mural, M. Shah, A. Subramanian, and E. Uberbacher, "Microbial GRAIL Gene-Finding Systems," presented at the ASM (American Society of Microbiology) Conference on Small Genomes, Arrowhead, CA, September 20, 1998.

Li, A. N., B. E. Zimmerman, F. F. Knapp, H. I. Amols, and J. S. Whiting, "Reconciliation of Directly Measured Re-188 Balloon Dosimetry with Calculations Based on a New NIST Activity Calibration," presented at the 2nd Annual Symposium on Radiotherapy to Reduce Restenosis, LaJolla, CA, January 16, 1998.

Lowndes, D. H., C. M. Rouleau, T. Thundat, G. Duscher, E. A. Kenik, and S. J. Pennycook, "Silicon and Zinc Telluride Nanoparticles Synthesized by Pulsed Laser Ablation: Size Distributions and Nanoscale Structure," presented at the 4th International Conference on Laser Ablation (COLA '97), Monterey, CA, July 21-25, 1997.

Lowndes, D. H., C. M. Rouleau, T. Thundat, and E. A. Kenik, "Silicon Nanoparticles Synthesized by Pulsed Laser Ablation into Helium: Formation Mechanism and Characterization," presented at the 4th International Conference on Laser Ablation (COLA '97), Monterey, CA, July 21-25, 1997.

Lowndes, D. H., V. I. Merkulov, A. A. Puretzky, D. B. Geohegan, G. E. Jellison, Jr., C. M. Rouleau, and T. Thundat, "Amorphous Diamond Films Deposited by Pulsed-Laser Ablation: The Optimum Carbon-Ion Kinetic Energy and Effects of Laser Wavelength," presented at the Spring Meeting of the Material Research Society, Symposium Y: Advances in Laser Ablation of Materials, San Francisco, CA, April 13-17, 1998.

Luo, H., A. L. Beets, M. J. McAllister, M. Greenbaum, D. W. McPherson, and F. F. Knapp, Jr., "Resolution, In Vitro and In Vivo Evaluation of Fluorine-18-Labeled Isomers of 1-Azabicyclo[2.2.2]oct-3-yl Alpha-(1-Fluoropent-5-yl)-Alpha-Hydroxy-Alpha-Phenylacetate (FQNPe) as New PET Candidates for the Imaging of Muscarinic-Cholinergic Receptor," presented at China Institute of Atomic Energy, Beijing, China, December 29, 1997 (Invited).

Luo, H., A. L. Beets, and F. F. Knapp, Jr., "A New Derivatized Aza-Thio (N3S4) Crown Ether Ligand for Bifunctional Chelate Labeling of Therapeutic Agents with Silver-111," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.

Lyon, B. F., G. Rice, and R. Ambrose, "The Utility of a Screening Model for Predicting Environmental Concentrations," presented at the Conference on Issues and Applications in Toxicology and Risk Assessment, Wright Patterson Air Force Base, OH, April 9, 1997 (Invited).

Ma, C.-Y., D. McCorkle, W. Ding, and L. Pinnaduwage, "Methodology for Direct Sampling of Volatile Organic Compounds Emerging from a Low Pressure, Flow-Through Reaction Cell for Subsequent GC/MS Analysis," presented at the 46th American Society of Mass Spectrometry Conference on Mass Spectrometry and Allied Topics, Orlando, FL, June 5, 1998.

Manges, W. W., S. F. Smith, C. L. Britton, W. L. Bryan, K. J. Scott, K. B. Jacobson, P. I. Oden, T. G. Thundat, R. J. Warmack, L. N. Howell, Jr., R. P. Hosker, Jr., and D. L. Auble, "A New Microtelesensor Chip for Meteorology," presented at the Atmospheric Research Management Science Team Meeting, San Antonio, TX, March 4-7, 1997.

Mann, R. C., "Functional Genomics at Oak Ridge National Laboratory," presented at the Conference on Functional Genomics, Waltham, MA, November 16-17, 1998 (Invited).

- Mao, B., B. E. Hingerty, S. Broyde, and D. J. Patel, "Slow Interconversion Between SYN 2-Aminofluorene (AF)-Intercalated and ANTI External Conformers in the NARI Mutation Hotspot Sequence Context," presented at the Workshop on Quantitative Modeling Approaches for Understanding and Predicting Mutagenicity and Carcinogenicity, Rome, Italy, September 3-5, 1997 (Invited).
- Mazur, P., "Biophysical and Biological Factors Determining the Ability to Achieve Long-Term Cryobiological Preservation," presented at the BESTCapsule 2001 Workshop, Osaka, Japan, November 2-6, 1997 (Invited).
- McPherson, D. W., W. K. Breeden, III, H. Luo, A. L. Beets, and F. F. Knapp, Jr., "Resolution, Radiolabeling, and In Vivo Evaluation of the Isomers of IPIP. An Attractive Ligand for Imaging mAChR," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.
- McPherson, D. W., H. Luo, J. Kropp, and F. F. Knapp, Jr., "Synthesis and Radioiodination of 1,2-Dipal-3-Ippa via a Tributyltin Intermediate," presented at the 45th Annual Meeting of the Society of Nuclear Medicine, Toronto, Canada, June 8, 1998.
- McPherson, D. W., H. Luo, J. Kropp, and F. F. Knapp, Jr., "Improved Radioiodination of 1,2-Dipalmitoyl-3-IPPA via a Tributyltin Intermediate," presented at the Joint World Federation of Nuclear Medicine (WFNM&B) and European Association of Nuclear Medicine (EANM) Congress, Berlin, Germany, August 30, 1998.
- McPherson, D. W., H. Luo, A. L. Beets, and F. F. Knapp, Jr., "A Novel In Vivo Method for the Determination of Muscarinic Ligand Subtype Selectivity," presented at the Joint World Federation of Nuclear Medicine (WFNM&B) and European Association of Nuclear Medicine (EANM) Congress, Berlin, Germany, August 30, 1998.
- Melnichenko, Y. B., G. D. Wignall, R. N. Compton, G. Bakale, and K. A. Affholter, "Characterization of Fullerenes and Fullerene Derivatives by Small-Angle Neutron Scattering and Transmission Measurements," presented at the Meeting of the Electrochemical Society, Symposium on Fullerenes, Montreal, Canada, May 4-9, 1997 (Invited).
- Meriaudeau, F., T. Downey, A. Passian, P. I. Oden, A. Wig, P. Crilly, and T. L. Ferrell, "Thin Metal Island Plasmon Sensor," presented at the International Conference on Applications of Photonic Technology, Ottawa, Canada, July 27-30, 1998.
- Meriaudeau, F., J. C. De Priest, P. I. Oden, T. Downey, A. Passian, A. Wig, and T. L. Ferrell, "Chemically Sensitive Surface Plasmon Devices Employing a Self-Assembled Composite Monolayer Film," presented at the International Conference on Applications of Photonic Technology, Ottawa, Canada, July 27-30, 1998 (Invited).
- Miller, J. C., "Molecular-Clusters: Itsy-Bitsy Bits of Matter," presented at the Department of Physics and Chemistry, North Carolina A&T University, Greensboro, NC, April 7, 1997 (Invited).
- Miller, J. C., "The Photophysics and Photochemistry of Molecular Nanoclusters," presented at the Department of Physics, University of Crete, Greece, May 29, 1997 (Invited).
- Miller, J. C., "Laser-Induced Organometallic Chemistry Within Clusters," presented at the Sixth Annual Workshop of the Consortium for Nanostructured Materials, Lexington, KY, October 24-25, 1997 (Invited).
- Miller, J. C., "Nanochemistry, Chemical Reactions Within Clusters," presented at the Department of Chemistry, State University of New York at Buffalo, NY, March 6, 1998 (Invited).
- Miller, J. C., "Lasers in Science and Art," presented at the Department of Physics, Berea College, November 13, 1998 (Invited).
- Mirzadeh, S., "Recent Medical Applications of Radium Isotopes," presented at the 26th National Meeting of the American Chemical Society, Boston, MA, August 23-27, 1998 (Invited).
- Mirzadeh, S., M. Du, C. W. Alexander, and F. F. Knapp, Jr., "Thermochromatographic Separation of Medical Radioisotopes," presented at the 26th National Meeting of the American Chemical Society, Boston, MA, August 23-27, 1998 (Invited).

- Mural, R., E. C. Uberbacher, F. W. Larimer, M. Parang, S. Petrov, M. Shah, J. R. Snoddy, Y. Xu, D. Davey, S. Spengler, M. Zorn, K. Worley, and C. Overton, "Automated Uniform Annotation of Genomic DNA Sequence: The Genome Channel," presented at the 18th International Congress of Genetics, Beijing, China, August 10, 1998 (Invited).
- Mural, R. J. and L. Hauser, "Current Automated DNA Sequencing and Genotyping Capacity at ORNL," presented to ORAU, Pollard Auditorium, Oak Ridge, TN, April 16, 1998.
- Murcia, N. S., B. K. Yoder, W. G. Richards, J. R. Dunlop, M. Mucenski, J. E. Wilkinson, and R. P. Woychik, "TG737 is Highly Expressed in the Node of the Primitive Streak and is Required for Proper Patterning and Survival of the Midgestational Embryo," presented at the Cold Spring Harbor Meeting on Pattern Formation During Development, Cold Spring Harbor, NY, May 28-June 2, 1997.
- Nandagopal, K., M. B. Murray, D. E. Davies, C. C. Reddy, D. A. Lauffenburger, and S. K. Niyogi, "Genetically Engineered Variants of Human Epidermal Growth Factor and Their Use in Elucidating the Mechanism of Growth Signaling," presented at the 1st Annual B.C. Guha Symposium on Recent Trends in Genetic Engineering and Molecular Genetics, Calcutta, India, December 17-21, 1997 (Invited).
- Niyogi, S. K., K. Nandagopal, M. B. Murray, S. M. Puddicombe, A. Richter, D. E. Davies, C. C. Reddy, and D. A. Lauffenburger, "Use of Engineered Variants of Human Epidermal Growth Factor (hEGF) in Elucidating Growth Signaling," presented at the Annual Meeting of the American Society of Biochemistry and Molecular Biology, Washington, DC, May 16, 1998.
- Nourse, B. D., "UEFPC Characterization Area Baseline Human Health Risk," presented at the Upper East Fork Poplar Creek Characterization Area Remedial Investigation and Risk Assessment(s) Summary Meeting, Oak Ridge, TN, February 18, 1997.
- Oden, P. I., "Microsensors: An Alternative Use for Scanning Force Microscopy Cantilevers," presented at the Scanning Microscopy Meeting, Chicago, IL, May 10-15, 1997 (Invited).
- Oden, P. I., T. Thundat, and R. J. Warmack, "Chemical, Physical and Biological Sensing: An Alternative Use of Scanning Probe Microscopy Cantilevers," presented at the 9th International Conference on Scanning Tunneling Microscopy, Hamburg, Germany, July 20-25, 1997
- Oden, P. I., T. Thundat, and R. J. Warmack, "Nanoscale Materials Property Determination for Sensing and Materials Science Applications Utilizing Microelectrochemical Structures," presented at the U.S. DOE Energy Workshop on Instrumentation and Measurement Issues for Nanometer Particles, University of Minnesota, Minneapolis, MN, December 5-7, 1997 (Invited).
- Oden, P. I., "Scanning Probe Microscopy - Fundamentals and Applications in Surface and Material Science," presented at the Symposium on Frontiers of Microscopy, University of Memphis, Memphis, TN, April 23, 1998 (Invited).
- Oden, P. I., "Atomic Force Microscopy Instrumentation Technology Applied Micromechanical (MEMS) Sensing," presented at the Symposium on Frontiers of Microscopy, University of Memphis, Memphis, TN, April 23, 1998 (Invited).
- Oden, P. I., "Scanning Probe Microscopy: Applications to Surface Science and Sensing," presented at Memphis University, Physics Department, Memphis, TN, June 4, 1998 (Invited).
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- Oden, P. I., R. J. Warmack, J. Storey, and C. L. Britton, "Micromechanical Cantilevered Structures for Automotive Sensing Applications," presented at the 1st Annual Compression-Ignition, Direct-Injection (CIDI) Engine Review, Oak Ridge, TN, October 6, 1998.
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## Patents Issued, CY 1997–1998

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**Beattie, K. L.**

U.S. Patent: 5,843,767

Date Issued: 12/1/1998

*Flowthrough Porous Apparatus for Discrete Detection of Binding Reactions*

**Dees, H. C.** (formerly of HSRD)

U.S. Patent: 5,698,429

Date Issued: 12/16/1997

*Cellulase-containing cell-free fermentate produced from microorganism ATCC 55702*

**Dees, H. C.** (formerly of HSRD)

U.S. Patent: 5,702,940

Date Issued: 12/30/1997

*Cellulase producing microorganism ATCC 55702*

**Dees, H. C.** (formerly of HSRD)

U.S. Patent: 5,756,337

Date Issued: 5/26/1998

*Method of producing a cellulase-containing cell-free fermentate produced from microorganism ATCC 55702*

**Dees, H. C.** (formerly of HSRD)

U.S. Patent: 5,780,422

Date Issued: 7/14/1998

*Detergent composition comprising a cellulase containing cell-free fermentate produced from microorganism ATCC 55702 or mutant thereof*

**Dees, H. C.** (formerly of HSRD)

U.S. Patent: 5,789,227

Date Issued: 8/4/1998

*Processing of cellulosic material by a cellulase-containing cell-free fermentate produced from cellulase-producing bacteria, ATCC 55702*

**Easterly, C. E., A. A. Vass, R. L. Tyndall** (retired)

U.S. Patent 5,597,729

Date Issued: 1/28/1997

*Method for the removal and recovery of mercury*

**Foote, R. L.** (now in CASD)

U.S. Patent: 5,661,028

Date Issued: 8/26/1997

*Large scale DNA microsequencing device*

**Garrett, W. R.** (retired)

U.S. Patent: 5,686,988

Date Issued: 11/11/1997

*Gas concentration measurement instrument based on the effects of a wave-mixing interference on stimulated emissions*

**Knapp, F. F., Jr., A. L. Beets, S. Mirzadeh, and S. Guhlke**

U.S. Patent: 5,729,821

Date Issued: 3/17/1998

*Concentration of perrhenate and pertechnetate solutions*

**Mirzadeh, S., F. F. Knapp, Jr., and E. D. Collins**

U.S. Patent: 5,774,782

Date Issued: 6/30/1998

*Technetium-99m generator system*

**Thundat, T. G. and E. A. Wachter**

U.S. Patent: 5,719,324

Date Issued: 2/17/1998

*Microcantilever sensor*

**Tyndall, R. L.** (retired)

U.S. Patent: 5,610,062

Date Issued: 3/11/1997

*Dispersant solutions for dispersing hydrocarbons*

**Vo-Dinh, T.**

U.S. Patent: 5,599,717

Date Issued: 2/4/1997

*Advanced synchronous luminescence system*

**Vo-Dinh, T.**

U.S. Patent: 5,721,102

Date Issued: 2/24/1998

*Surface enhanced Raman gene probe and methods thereof*

**Vo-Dinh, T.**

U.S. Patent: 5,783,389

Date Issued: 7/21/1998

*Surface enhanced Raman gene probe and methods thereof*

**Vo-Dinh, T.**

U.S. Patent: 5,814,516

Date Issued: 9/29/1998

*Surface enhanced Raman gene probe and methods thereof*

**Vo-Dinh, T.**

U.S. Patent: 5,864,397

Date Issued: 1/26/1999

*Surface-enhanced raman medical probes and system for disease diagnosis and drug testing*

**Woychik, R. P.** (formerly of Life Sciences Division)

U.S. Patent: 5,789,651

Date Issued: 8/4/1998

*Isolation and characterization of Agouti: a diabetes/obesity related gene*

**Woychik, R. P.** (formerly of Life Sciences Division)

U.S. Patent: 5,843,652

Date Issued: 12/1/1998

*Isolation and characterization of Agouti: a diabetes/obesity related gene*

## Invention Disclosures, CY 1997–1998

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### ***Beattie, K. L.***

ERID 0322, S-87,658

*Microfabricated, Flowthrough Porous Apparatus for Discrete Detection of Binding Reactions*

(submitted prior to LMER employment; Houston Advanced Research Center; assigned to LMER/DOE)  
1997

### ***Britton, C. L., Jr., R. J. Warmack, W. L. Bryan, R. L. Jones, P. I. Oden, and T. Thundat***

ERID 0501, S-90,091

*A Capacitively Readout Multielement Sensor Array with Common-Mode Cancellation*

LDRD

5/98

### ***Doktycz, M. J., W. L. Bryan, and R. Kress***

ID 0644, S-90,891

*Dual Manifold System for Arraying Biomolecules*

LDRD-funded

11/98

### ***Ferrell, T. L., M. L. Simpson, R. J. Warmack, P. B. Crilly, and D. L. Hedden***

ERID 0337, S-87,689

*Omnidirectional, Free-Space, Photonic, Multiconnect System for Electronic Circuits*

KP01

4/97

### ***Golovlev, V. V.***

ID 0639, S-92,514

*Fourier Transform Deconvolution for Enhancing Spectral Resolution*

KP13

12/98

### ***Kennel, S. J. and S. Mirzadeh***

ERID 0266

*Targeting of Alpha Particle Emitting Radioisotopes for Radiotherapy*

KP14

8/98

### ***Kuritz, T.***

ERID 0463, S-90,042

*Cultivation of a Bacterial Strain with an Accelerated Growth Rate*

Division Overhead-funded

1/98

### ***McPherson, D. W.***

ERID 0531, S-90,822

*In Vivo Method for Determination of Muscarinic Ligand Subtype Selectivity*

KP14

6/98

**Menon, M. M., T. G. Thundat, and P. I. Oden**

ERID 0412, S-88-682

*Miniature Vacuum Gauge and Residual Gas Analyzer Based on Microcantilever*

Division Overhead-funded

9/97

**Mirzadeh, S., S. Aaron, and L. Zevenbergen**

ERID 0626, S-90,872

*A New Indium-114m Brachytherapy Source*

ST04

10/98

**Oden, P. I., C. L. Britton, Jr., S. F. Smith, and R. J. Warmack**

ID 0636, S-90,886

*Multi-Modal Analysis of Micromechanical Structures for Sensing Applications*

LDRD-funded

11/98

**Pinnaduwage, L. A. and W. Ding**

ID 0647, S-90,893

*Method for Suppression of Dust Formation in Material Processing Discharges*

EW40

11/98

**Thundat, T. G., P. I. Oden, and P. G. Datskos**

ERID 0357, S-88,601

*Wavelength Dispersive Infrared Detector and Micro-Spectrometer Using Cantilevers*

KP01

5/1/97

**Thundat, T. G., I. Sauers, and P. I. Oden**

ERID 0393, S-88,652

*Microcantilever Detector for Gas Chromatography*

KP01

7/18/97

**Thundat, T. G. and P. I. Oden**

ERID 0353,S-87,693

*Acoustic Sensing Using Phased Array Microsensors*

KP14

4/97

**Thundat, T. G., P. I. Oden, and R. J. Warmack**

ERID 0516, C-90,806

*Micromechanical Transient Sensor for Measuring Viscosity and Specific Gravity*

KP14

5/98

**Thundat, T. G.**

ERID 0545, S-90,840

*Chemical Coatingless Chemical Sensors*

KP14

7/98

**Thundat, T. G. and T. L. Ferrell**

ID 0651, S-90,900

*Differential Phase Microcantilever Sensor*

KP01

12/98

**Varma, V. K., J. C. Lewis, D. A. Waters, T. G. Thundat, and C. M. Egert**

ERID 0332, Y-87,672/ESID 1933-Y-87,672

*Chemical Nano-Explosion Based Battery*

RPSD Overhead

3/97

**Vass, A. A. and R. L. Tyndall**

ERID 0491, S-90,079

*Antimicrobial Effect of an Amobae/Bacterial Preparation*

ORNL Seed Money

4/98

**Vo-Dinh, T. and A. Sadana**

ERID 0349, S-88,606

*Fractal Analysis with Space-Time (FAST) Coordinate Conversion*

KP01

5/97

**Vo-Dinh, T.**

ERID 0309, S-88,681

*SERMED Nanoprobes*

KP01

9/97

**Vo-Dinh, T., A. Wintenberg, and M. N. Ericson**

ERID 0271, S-87,647

*Integrated Circuit Microsystem (ICM) for DNA Biochips*

KP01/LDRD

1997

**Vo-Dinh, T. and S. J. Norton**

ERID 0335, S-87,674

*Spectro-Acoustically Enhanced Ultrasonic (SEUS) Detection for Biomedical Diagnosis*

KP01

3/14/97

**Vo-Dinh, T.**

ERID 0454, S-90,030

*Raman and Surface-Enhanced Raman Gene (SER-G) Probe and Detection System*

KP01

1/98

**Vo-Dinh, T.**

ID 0659, S-90,908

*SERS Biochip*

KP11/LDRD

12/98

**Vo-Dinh, T.**  
ID 0660, S-90,909  
*Advanced Multifunctional Biochip*  
KP11  
12/98

**Wachter, E. A., G. L. Powell, and J. E. Parks**  
ERID 0287C, S-87,686; ESID 1934-YC, S-87,686  
*Improved Method for Rapid Analysis of Synthetic Fibers*  
KJ02; CRADA ORNL 95-0352  
4/97

**Wachter, E. A., and C. M. Smith**  
ERID 0400, S-88,657  
*Microencapsulation Method for Munition Primers*  
Division overhead-funded  
7/24/97

**Woychik, R. P.**  
ERID 0402, S-88,662  
*Utilizing Yeast as an Intermediate Host for Constructing Mouse Gene Disruption Vectors by Homologous Recombination*  
WFO ERD-96-1374  
8/97

## **Staff Honors, Awards, External Appointments, and Conference Participation, CY 1997–1998**

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- Abston, J. P.*      1998 LMER Operations and Support Award for Operations Support (team)
- Certified Occupational Health and Safety Technology, American Board of Industrial Hygiene and Board of Certified Safety Professionals
- Alarie, J. P.*      1997 Royalty Sharing Award for “Fiberoptics Luminoscope and Optical Biopsy”
- Allison, D. P.*      1997 LMER Technical Achievement Award for Research Accomplishment (team)
- Committee Chair/Organizer, Scanning Probe Microscopy Session, *Scanning Microscopy International Meeting*, Chicago, Illinois, May 1997
- Editorial Board, *Scanning Microscopy*
- Allred, J. F.*      1998 LMER Operations and Support Award for Operations Support (team)
- Bast, C. S.*      Diplomate, American Board of Toxicology, 1998-2003
- Beattie, K. L.*      Workshop Organizer, “New Genomics Technologies,” *1998 Annual Meeting of the Environmental Mutagen Society*, Anaheim, California, March 1998
- National Institutes of Health Review Panel, July 1998
- Beatty, B. R.*      Chair, ORNL Animal Care and Use Committee
- Board of Directors, Appalachian Branch of American Association of Laboratory Animal Science
- Awards Committee, Association for Women in Science
- Beets, A. L.*      1997 LMER Technical Achievement Award for Research Accomplishment (team)
- Berven, B. A.*      Co-Chair, 1998 Lockheed Martin United Way Campaign
- Loaned Executive for United Way of Anderson County, 1998
- Chair, 1998 Annual Health Physics Society Meeting, Session on Radon
- Member, ORNL Fix-It Committee Member
- Member, LMES Library Advisory Committee, 1998
- Member, LMES Travel Committee, 1997-1998
- LMES Job Evaluation Review Committee
- ORNL Competitive Cost Proposal Committee
- Member, ORNL Land and Facilities Use committee

- Member, ORNL Steering Committee, Integrated Safety Management System
- Adjunct Professor, Department of Ecology and Evolutionary Biology, The University of Tennessee, Knoxville
- Acting Director, Joint Institute for Biological Sciences (UT/ORNL)
- Bogard, J. S.* Adjunct Professor, Department of Anthropology, The University of Tennessee, Knoxville
- Program Committee, *International Conference on Environmental Monitoring and Remediation Technologies*, sponsored by the International Society for Optical Engineering, Boston, Massachusetts, November 1998
- Chairman, HPSSC/ANSI N13.27 Working Group, "Performance Specifications for Pocket-Sized Alarming Dosimeters/Ratemeters"
- Member, HPSSC/ANSI N13.22 Working Group, "Bioassay Programs for Uranium"
- Member, NCRP Scientific Committee 57, Task Group 15, "Uranium: Radiation Protection Guidelines"
- Member, Health Physics Society Laboratory Accreditation Policy Committee
- Bunick, G. J.* Member, National Institutes of Health, Biophysical Chemistry Special Study Section, March 1997
- Knoxville Gateway Pavilion Exhibit, 1997
- Team Leader, Oxford Cryosystem Award, *1997 American Chemistry Associate Meeting*
- Co-Chair, Life Sciences Section, ORAU/SNS Workshop, 1998
- Lecturer, ORNL representative at 1998 Space Day observances
- 1998 LMER Technical Achievement Award for Research Accomplishment (team)
- Charter Member, Southeast Regional Collaborative Access Team (SERCAT)
- Carpenter, D. A.* Member, ORNL Animal Care and Use Committee
- Casey, D. K.* Member, Human Genome Organization
- Chen, C.-H.* Editorial Board, *Rapid Communicaitons in Mass Spectrometry*
- 1998 LMER Technical Achievement Award for Research Accomplishment
- Coleman, R. L.* Certified, American Board of Health Physics
- Crawford, O. H.* Member, Organizing Committee, *1997 Symposium on Fundamental Physics in Microscopy and Microanalysis*, Chicago, Illinois, May 1997
- Member, Organizing Committee, *17<sup>th</sup> Werner Brattt Workshop on Charged Particle Penetration*, Charlottesville, Virginia, May 1997

<i>Davidson, K. A.</i>	ORNL/ARAU Institutional Review Board, 1998
<i>Doktycz, M. J.</i>	1997 LMER Technical Achievement Award for Research Accomplishment (team)
<i>Easterly, C. E.</i>	Member, Safety-controls Optimizations by Performance Evaluation (SCOPE) Experts Panel  National Laboratory Directors' Environmental and Occupational/Public Health Steering Group, ORNL Representative  Liaison, National Council on Radiation Protection and Measurements and National Association of Environmental Professionals
	Member, Conference Planning Committee and Session Chair, <i>Non-Lethal III</i> , 1998
	Expert, Review Panel for Hanford Tanks Flammable Gas Issue, 1998
<i>Eckerman, K. F.</i>	Adjunct Professor, University of Tennessee, Knoxville  National Council on Radiation Protection (NCRP) Scientific Committee on Dosimetry and Metabolism of Radionuclides (SC-57)  NCRP Scientific Committee on Radionuclides in the Environment (SC-64)  International Council on Radiation Protection (ICRP) Committee 2 on Secondary Limits  ICRP Task Group on Dose Calculations, Chairman  ICRP Task Group on Reference Man, Chairman  ICRP Task Group on Internal Dosimetry ( <i>ex officio</i> member)  ICRP Task Group on a Dosimetric Model for the Alimentary Tract ( <i>ex officio</i> member)  National Research Council Committee on Risk Assessment of Radon in Drinking Water
<i>Egidi, P. V.</i>	Health Physics Society Working Group on NORM
<i>Ferrell, T. L.</i>	Research Professor, Physics Department, University of Tennessee, Knoxville
<i>Foltz, C. J.</i>	Adjunct Professor, Division of Comparative Medicine, University of Tennessee, Knoxville  Diplomate, American College of Laboratory Medicine
<i>Gambrell, S. C.</i>	Member, ORNL Committee for Women  Member, ORNL Administrative Computing Steering Committee  Member, ORNL Year 2000 Committee
<i>Gipson, L. C.</i>	1997 LMER Operations and Support Award for Administrative Support
<i>Gresalfi, M. J.</i>	Member, U.S. Commission on People with Disabilities  Senior Washington, D.C., Representative to ORO-based DOE National Center of Excellence for Metals Recycle

- Griffin, G. D.* Judge, Biochemistry Section, Intel International Sciences and Engineering Fair, Louisville, Kentucky, May 1997
- Halford, D. K.* President-Elect, Colorado Chapter of the Wildlife Society; Executive Board
- Hartman, F. C.* Editorial Board Member, *Journal of Biological Chemistry*  
Editorial Board Member, *Journal of Protein Chemistry*
- Member, Site-Review Panel for the Protein Engineering Network of Centres of Excellence (funded by the Canadian National Research Council for protein engineering research at multiple Canadian universities)
- Hingerty, B. E.* National Science Foundation, reviewer of NATO postdoctoral fellowship candidates  
National Research Council, reviewer of NRC research associate proposals
- DOE-OBER representative for Life Sciences on the Energy Research Supercomputer User's Group Executive Committee for Lawrence Berkeley National Laboratory, National Energy Research Scientific Computing Center, Vice-Chair  
ORISE Traveling Lecture Program Speaker; ORISE Tennessee Visiting Scientist, 1997–98
- Houser, K. J.* 1998 LMER Technical Achievement Award for Technical Support (team)
- James, D. R.* 1998 IEEE International Symposium on Electrical Insulation, Publications and Publicity Chair  
Member, IEEE Dielectrics and Electrical Insulation Society Subcommittee S-32-11 on Gaseous Dielectrics
- Johnson, C. A.* WATTEC Sponsors Committee, Secretary, 1997–98  
WATTEC Sponsors Committee, American Women in Science Representative, 1998–99
- Kennel, S. J.* 1997 Royalty Sharing Award, “Rat Hybridoma 346-11A Reacting with Mouse Protein”  
Member, Environmental Protection Agency Review Panel, 1998
- Kennel, S. J.* *American Chemical Society Meeting*, Orlando, Florida, 1997, Session Chair, Radioisotope Chemistry
- Kerr, G. D.* Radiation Effects Research Foundation, Hiroshima and Nagasaki, Japan, Consultant  
International Committee on Radiation Protection (ICRP) Committee 2, Task Group for the Revision of Reference Man, Member
- Knapp, F. F., Jr.* LMER Corporate Fellow, 1997  
1997 R&D 100 Award, “Development of Modular Technetium-99m Concentrator” (with S. Mirzadeh and E. D. Collins)  
Editorial Board, *European Journal of Nuclear Medicine* (1993–Present)  
Editorial Board, *Journal of Applied Radiation and Isotopes* (1994–Present)

Editorial Board, *Journal of Clinical Physiology*

ORAU/ORNL Committee for Human Studies (1992–Present)

*1997 Annual Meeting, Society of Nuclear Medicine*, San Antonio, Texas, June 1997 – Abstract Review Committee, Therapeutics Session; Session Chairman, Radiopharmaceuticals VI

Chairman, Medical Radioisotope Session, *Radioisotope Symposium*, Marianske Lazne, Czech Republic, April 1998

*1998 Annual Meeting, Society of Nuclear Medicine*, Toronto, Canada, June 1998 – Abstract Review Committee; Session Chairman, Therapeutics Session and Radiopharmaceuticals VI Session

International Organizing and Program Committee, *Seventh World Congress of Nuclear Medicine and Biology*, Berlin, Germany, August 1998,

Organizer and Chairman, Symposium on Radiopharmaceuticals and Radiopharmacy, *Seventh World Congress of Nuclear Medicine and Biology*, Berlin, Germany, August 1998

1997 LMER Technical Achievement Award for Research Accomplishment (team)

Co-Editor, Special Issues of *Radiochimica Acta* (1997) and *Nuklearmedizin* (September 1998)

Co-Organizer, *Fourth International Workshop on Radioiodinated Free Fatty Acids*, Dresden, Germany, September 1998

*Kocher, D. C.* Member, National Council on Evaluation of EPA Guidelines for Exposure to Naturally Occurring Radioactive Materials

Member, DOE Biota Dose Assessment Committee

Member, International Atomic Energy Agency Consultant Groups—"Comparison of Methods for Calculating Health and Environmental Impacts Due to Radioactive and Non-Radioactive Agents in Waste from Electricity and Generation" and "The Use of Safety Indicators, Complementary to Dose and Risk, in the Assessment of Radioactive Waste Disposal"

*Kuritz, T.* Adjunct Professor, The University of Tennessee, Knoxville, Center for Environmental Biotechnology

National Research Council, National Science Foundation, and U.S. Department of Agriculture, Reviewer

*Larimer, F. W.* 1997 LMER Technical Achievement Award for Research Accomplishment (team)

Adjunct Faculty, University of Tennessee, Knoxville, Cell, Developmental, and Molecular Biology Program

*Leggett, R. W.* Elected to National Council on Radiation Protection and Measurements, 1998

NCRP Scientific Committee on Dosimetry and Metabolism of Radionuclides (SC-57), Member

- NCRP Committee on Uncertainties in Biokinetic and Dosimetric Models (SC-57-16), Member
- ICRP Task Group on Internal Dosimetry; Chairman, Subgroup on Reliability of Dose Coefficients
- ICRP Task Group on Reference Man, Member
- ICRP Task Group on Dose Calculations, Corresponding Member
- ICRP Task Group on a Dosimetric Model for the Alimentary Tract, Corresponding Member
- Little, C. A.* Associate Editor, *Health Physics*
- Health Physics Society, Program Committee
- Member, Health Physics Society Standards Committee, Subcommittee on Environmental Transport Modeling
- Adjunct Professor, Department of Radiological Health Sciences, Colorado State University
- United Way Campaign Committee, Mesa County, Colorado (1997)
- Charter Member, DOE Grand Junction Office Joint Utilization Committee, 1998 (appointed by City Council)
- Lu, P. Y.* Chair, American Chemical Society, Division of Chemical Health and Safety, 1999–2000
- Advisory Committee, National Health Research Institutes, Taiwan, Republic of China, 1997–2001
- Chair, Program Steering Committee, Chinese-American Academic and Professional Association in the Southeastern United States, 1997–1998
- President-Elect, American Chinese Toxicological Society, 1998
- Editorial Board, American Chemical Society's Chemical Safety and Health Division, 1998
- Lyon, B. F.* International Technology Corporation Commendation for “Contributing Knowledge Among Professionals in the Technical Community,” 1998
- Mazur, P.* Editorial Board, *Cryobiology*
- McGinn, C. W.* Chair, ORNL Risk Assessment Council
- Michaud, E. J.* Adjunct Assistant Professor, University of Tennessee, Knoxville
- Member, ORNL Animal Care and Use Committee
- Milanez, S.* Diplomate, American Board of Toxicology, 1997–2002
- Miller, J. C.* Session Organizer and Co-Chair, *DOE Workshop on Instrumentation and Measurement Issues for Nanometer Particles*, Minneapolis, Minnesota, 1997

Symposium Organizer and Program Committee, *Thirteenth Interdisciplinary Laser Science Conference*, Long Beach, California, October 1997

Advisory Committee, *Fourth International Conference on Laser Ablation*, Asilomar, California, May 1997

Fellow, American Association for the Advancement of Science, 1998

Advisory and Program Committee, *Ninth International Conference on Resonance Ionization Spectroscopy*, Great Britain, June 1998

Program Committee, *Conference on Lasers and Electrooptics*, San Francisco, 1998

Advisory and Program Committee, *Fifth International Conference on Laser Ablation*, Gottingen, 1999

Editorial Advisory Board, *Journal of Physical Chemistry*, 1995-2000

Editorial Advisory Board, *Interactions with Materials*, 1998

Divisional Associate Editor, Laser Science, *The Physical Review Letters*, 1997-2000

Adjunct Professor, Department of Chemistry, University of Tennessee, Knoxville

Recipient, NATO International Collaboration Grant, 1997–1998

National Research Council, Committee on Atomic, Molecular, and Optical Physics, Vice-Chair

University of Tennessee Science Alliance Faculty Research Award Committee, Member

Elected Member, American Physical Society, Executive Committee for the Division of Laser Scieence

*Mirzadeh, S.* American Chemical Society, Division of Nuclear Chemistry and Technology, Publications Committee (1994-97)

1997 R&D 100 Award, “Development of Modular Technetium-99m Concentrator” (with F. F. Knapp and E. D. Collins)

1997 LMER Technical Achievement Award for Research Accomplishment (team)

Member, DOE Second Biannual Workshop on “Alpha-Emitters for Medical Therapy,” June 1998, Toronto, Canada

Organizer and Co-Chair, Symposium on “Chelated Metal Ions in Diagnosis and Therapy” under auspices of Divisions of Nuclear Chemistry and Technology and Inorganic Chemistry, American Chemical Society, National Meeting, Dallas, Texas, March 1998

Member, Special Study Section, National Institutes of Health

- Mumby, M. E.* Certified Well Driller by NGWA  
Licensed Kentucky Monitoring Well Driller  
Registered Professional Geologist, State of Tennessee and State of Wyoming
- Mural, R. J.* Organizer, *Sixth International Workshop on the Identification of Transcribed Sequences, Edinburgh, Scotland*, October 1997  
Organizer, *Seventh International Workshop on the Identification of Transcribed Sequences*, Monterey, California, November 1998  
Member, Quarterly Review Committee, Genome Database  
Member, Scientific Advisory Board, Digital Genetechologies, Inc., La Jolla, California  
Editor, “Technical Tips Online,” *Trends in Genetics*
- Niyogi, S. K.* Organizing Committee, *Recent Trends in Genetic Engineering*, B.C. Guha Center for Genetic Engineering and Biotechnology, University of Calcutta, India, December 1997
- Nourse, B. D.* Member, ORNL Risk Assessment Council
- Oden, P. I.* 1998 LMER Technical Achievement Award for Research Accomplishment (team)  
Adjunct Research Professor, Physics Department, University of Tennessee, Knoxville  
*Discover Magazine* Innovative Technology Award finalist for “Microcantilever Sensor Technology as Applied to Infrared Imaging” (with R. J. Warmack and T. G. Thundat)
- Pearson, J.* Steering Committee, *Environmental Industry Association’s Superfund Conference*, Washington, D.C., 1997
- Petrov, S.* Organizing Committee, *International Conference on Intelligent Systems and Semiootech: A Learning Perspective*, Gaithersburg, Maryland, September 1997
- Pinnaduwage, L. A.* Member, Review Panel for 1997 NSF/DOE Program on Partnership in Basic Plasma Science and Engineering, 1997  
ORNL/UT Collaborating Scientist, Research Associate Professor, Department of Physics, University of Tennessee, Knoxville
- Richardson, W. G.* 1998 LMER Technical Achievement Award for Adminstrative Support
- Shinpock, S. G.* 1998 LMER Technical Achievement Award for Technical Support (team)
- Stevens, A.* Elected to National Academy of Sciences, 1998

<i>Swaja, R. E.</i>	DOE Environmental Assessment Task Group of the Risk Based Standards Working Group, Member
	ANSI Committee N13.3 on Neutron Dosimetry
	DOE Health Physics Research Award Selection Committee, Member
	ORNL Seed Money Committee, Member
<i>Talmage, S. S.</i>	1997 Royalty Sharing Award for "Environmentally Safe Projectiles"
<i>Thundat, T. G.</i>	1997 LMER Technical Achievement Award for Research Accomplishment (team)
	1998 LMER Technical Achievement Award for Research Accomplishment (team)
	Assistant Adjunct Professor, Physics Department, University of Tennessee, Knoxville
	Visiting Professor, University of Bourgundy, Dijon, France
	<i>Discover Magazine</i> Innovative Technology Award finalist for "Microcantilever Sensor Technology as Applied to Infrared Imaging" (with R. J. Warmack and P. I. Oden)
<i>Triplett, L. L.</i>	1997 LMER Operations and Support Award for Operations Support
<i>Troxel, C. M.</i>	Diplomate, American Board of Toxicology, 1997-2002
<i>Uberbacher, E. C.</i>	1997 LMER Technical Achievement Award for Research Accomplishment (team)
	Member, Genome Sequence Database Advisory Board, Santa Fe, New Mexico
	Member, Genome Database Advisory Board, Johns Hopkins
	Member, NIH Genome Program Review Committee
	Member, NIH Genome Program Functional Genomics Review Committee
	Member, DOE Human Genome Coordinating Committee
	Program Committee, <i>Sixth International Conference on Intelligent Systems for Molecular Biology</i> , Greece, 1997
	Program Committee, <i>Seventh International Conference on Intelligent Systems for Molecular Biology</i> , Toronto, 1998
	Organizing Committee and Genomics Session Organizer, <i>Third Pacific Symposium on Biocomputing</i> , 1998
	Informatics Advisory Board and Scientific Advisory Board, SmithKline Beecham
<i>Vo-Dinh, T.</i>	Chairman, ASTM Subcommittee on Fiberoptics
	Co-Chairman, <i>Conference on Biomedical Sensing, Imaging and Tracking Technologies II</i> , San Jose, California, February 1997

Chairman, Commission V.4 on Spectrochemical and Other Optical Procedures for Analysis, International Union of Pure and Applied Chemistry

Topical Editor, *Journal of Polycyclic Aromatic Compounds*

Associate Editor, *Analusis*

Editorial Board, *Applied Spectroscopy*

Editorial Board, *Journal of Biomedical Optics*

1998 Lockheed Martin Technology Commercialization Award (first annual recipient)

Co-Chairman, *Conference on Biomedical Sensing, Imaging and Tracking Technologies III*, San Jose, California, 1998

*Warmack, R. J.* 1997 LMER Technical Achievement Award for Research Accomplishment (team)

1998 LMER Technical Achievement Award for Research Accomplishment (team)

American Museum of Science and Energy, Tennessee Technology Award for "Microcantilevers for Infrared Imaging," 1998

*Discover Magazine* Innovative Technology Award finalist for "Microcantilever Sensor Technology as Applied to Infrared Imaging" (with P. I. Oden and T. G. Thundat)

*Wassom, J. S.* Managing Editor, *Mutation Research*, 1973–97

Resource Editor, *Mutation Research*, 1998–Present

Committee Chair, Technical and Archives Committee and Member, Program and Communication Committee, Environmental Mutagen Society

*Watson, A. P.* Member, Army Science Board (1996–Present) and Chair of Chemical/Biological Agent Independent Assessment for the Theater Missile Defense Lethality Study (U.S. Army Space and Missile Defense Command) (1997–Present)

Member, Committee on Toxicology, Board on Environmental Studies and Toxicology, Commission on Life Sciences, National Academy of Sciences, National Research Council, 1995–Present

Member, Toxicology Review Board, U.S. Army Center for Health Promotion and Preventive Medicine, Aberdeen Proving Ground, Maryland, 1992–Present

Member, Biomedical Technology Area Review and Assessment Panel, Department of Defense, Office of the Director of Defense Research and Engineering, 1997–98

- Xu, Y.*                    1997 LMER Technical Achievement Award for Research Accomplishment (team)  
Program Committee, *1997 International Conference on Imaging Science, Technology and Systems*  
Co-Chair, Special Track on Gene Identification on Large-Scale Genomic Sequences,  
*Pacific Symposium on Biocomputing*, 1997  
1998 LMER Technical Achievement Award for Research Accomplishment
- Young, R. A.*            Councilor, Southeast Chapter Society of Toxicology  
Member, National Academy of Sciences, Committee on Toxicology, Subcommittee on  
Exposure Guidance Levels for Selected Hydrofluorocarbons
- Yuracko, K. L.*           AAAS Selection Committee for the Technology Policy Fellowship Program  
Member, ASME Risk and Life Cycle Analysis Research Committee  
ORNL Liaison to Community of Science

## **Advisory Committee**

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Dr. Charles DeLisi  
College of Engineering  
Boston University  
44 Cummington Street  
Boston, Massachusetts 02115  
(*Term: 1998–2000*)

Dr. Lee Hood  
University of Washington  
School of Medicine  
Department of Molecular Biotechnology, FJ20  
Seattle, Washington 98195  
(*Term: 1998–2000*)

Dr. Daniel W. McDonald  
Oak Ridge National Laboratory  
Instrumentation and Controls Division  
Post Office Box 2008  
Oak Ridge, Tennessee 37831-6005  
(*Term: 1998–1998*)

Dr. Donald J. Reed  
Director, Environmental Health Sciences Center  
Oregon State University  
Corvallis, Oregon 97331-7302  
(*Term: 1998–2000*)

Dr. David A. Smith  
203432 Ayoub Lane  
Hagerstown, Maryland  
(*Term: 1998–2000*)



