Awards, Prestigious, past-honorees.doc

02/11/2010

NOBEL PRIZES HONOREES ASSOCIATED WITH OAK RIDGE

02/11/2010

Eugene Wigner (deceased 01/01/1995) 1963 Nobel Prize in Physics (co-winner with Maria Goeppert Mayer and Hans Jensen)

Wigner was cited for his early (late 1920s) work in the theory of symmetries in quantum mechanics, which precedes Oak Ridge National Laboratory, and also for developing and successfully applying new ideas and methods to "some of the most fundamental problems in physics," many of which did occur during his association with ORNL that spanned from the Manhattan Project into the 1970s.

Clifford G. Shull (deceased 03/31/2001)

1994 Nobel Prize in Physics (co-winner with Bertram N. Brockhouse)

Shull was cited for his development of the neutron diffraction technique. Shortly after World War II, Shull, working with Ernest O. Wollan at ORNL's Graphite Reactor, laid the foundation for determining molecular structure that has grown into neutron scattering research. Shull left ORNL for the Massachusetts Institute of Technology in 1955, but his seminal neutron crystallography discoveries occurred at ORNL.

2007 Nobel Peace Prize

It should be noted that a number of ORNL (and DOE) scientists contributed to the United Nations' Intergovernmental Panel on Climate Change that shared the 2007 Nobel Peace Prize with AI Gore, "for their efforts to build up and disseminate greater knowledge about man-made climate change, and to lay the foundations for the measures that are needed to counteract such change." ORNL's two most prominently cited contributing IPCC authors were Thomas J. Wilbanks and David L. Greene.

Other ORNL Contributors to the Work:

Brown, Marilyn A. Dale, Virginia H. Drake, John B. Erickson, David J., III Hanson, Paul J. Marland, Gregg Shriner, David S. Wright, Sherry B.

OTHER NOTABLE ASSOCIATIONS

2009 Nobel Prize in Chemistry

Ramakrishnan, Venkatraman (MRC Laboratory of Molecular Biology, UK); Steitz, Thomas A. (Yale University, Howard Hughes Medical Institute); and Yonath, Ada E. (Weizmann Institute of Science, Israel)

"For studies of the structure and function of the ribosome"

NOTES: Dr. Ramakrishnan was known as "Venki" at ORNL and conducted neutron scattering experiments at the HFIR in the early 1980s. Reference - Ed Uberbacher says: Dr. Venkatraman Ramakrishnan was an ORNL staff member briefly (around 1982 and 1983) in the Solid State Division. He lead development of the biological neutron scattering effort originally founded by Ed Uberbacher and Gerry Bunick. The ribosome studies were started prior to his coming to ORNL with Don Engelman and perhaps continued afterward. His more recent work with x-ray crystallography, more than the earlier neutron work, led to the insights reflected in the Prize.

Other Work at ORNL that was closely associated with work that resulted in Nobel Prizes for others:

1) Crossed-beam molecular chemistry [1986 - Sheldon Datz and Ellison Taylor]

2) Messenger RNA

[1965 - Elliot (Ken) Volkin and Lazarus Astrachan]

PAST RECIPIENTS OF THE ENRICO FERMI AWARD OAK RIDGE NATIONAL LABORATORY

11/14/2000

Sheldon Datz (2000)

Liane B. Russell (1994)

Richard B. Setlow (1988)

Alexander Hollaender (1983)

Alvin M. Weinberg (1980)

William L. Russell (1976)

Eugene P. Wigner (1958)

OAK RIDGE NATIONAL LABORATORY SARDI CARNOT AWARD for ENERGY CONSERVATION AND RENEWABLE ENERGY

(U.S. DEPARTMENT OF ENERGY SCIENCE AND TECHNOLOGY AWARDS)

Roger S. Carlsmith (1996)

ERNEST ORLANDO LAWRENCE AWARD OAK RIDGE

02/06/2007

ORNL

Steven J. Zinkle (2007, Nuclear Technology) Chain T. Liu (1988, Materials Research) Anthony P. Malinauskas (1985, Chemistry) Paul B. Selby (1981, Life Sciences) Fred R. Mynatt (1981, Nuclear Technology) Charles D. Scott (1980, Chemistry) Adolphus L. Lotts (1976, Materials Research) Chester R. Richmond (1974, Life Sciences) James R. Weir (1973, Materials Research) John B. Storer (1968, Life Sciences) Arthur C. Upton (1965, Life Sciences) Floyd L. Culler (1965, Nuclear Technology) Alvin M. Weinberg (1960, Physics)

ENRICHMENT

J. Robert Merriman (1987, Nuclear Technology)

Dean A. Waters (1977, Nuclear Technology)

Paul R. Vanstrum (1966, Nuclear Technology)

Y-12

Gerard M. Ludtka (1995, Materials Research)

John M. Googin (1967, Nuclear Technology)

NATIONAL ACADEMIES OF ENGINEERING/SCIENCES PRESENTLY or FORMERLY ASSOCIATED WITH OAK RIDGE

10/02/2007

NAE:

Jeffrey Wadsworth (2005) ***

Allan S. Hoffman (2005) previously Assistant Director of M.I.T. Practice School at ORNL

Chain T. Liu (2004) presently at University of Tennessee ***

Jack J. Dongarra (2001) presently at University of Tennessee ***

John H. Gibbons (1994) worked at ORNL in the past but not here when elected

Alvin W. Trivelpiece (1993) retired ***

Jim Callen, (1990) previously worked at ORNL but at the University of Wisconsin

when elected

Milton C. Edlund (1990) previously worked at ORNL but somewhere else when elected; deceased – 1993

Murray W. Rosenthal (1990, retired) ***

John M. Googin (1988) worked at Y-12 ... not ORNL; deceased - January 1994 ***

Frank L. Parker (1988) Vanderbilt University, but affiliated with programs at ORNL

Charles D. Scott (1986) retired ***

George R. Jasny (1983) worked at other Oak Ridge facilities ... not at ORNL; deceased - December 2001 ***

Herbert G. MacPherson (1978) deceased - January 1993 ***

Robert A. Charpie (1975) left ORNL after several years in Oak Ridge

Alvin M. Weinberg (1975) deceased - October 2006 ***

Floyd L. Culler (1974) left ORNL after several years in Oak Ridge, deceased - September 2004 ***

William D. Manly (1974) deceased - November 2003

NAS:

E. Ward Plummer (2006) ***

Monica Turner (2004)

Audrey Stevens Niyogi (1998) ***

Gerald D. Mahan (1995) ***

Liane B. Russell (1986) ***

Nathan Edward Tolbert (1984)

Mary-Lou Pardue (1983)

Oscar L. Miller, Jr. (1978) Roderick K. Clayton (1977) James H. Taylor (1977) August H. Doermann (1975), Now Emeritus Clifford G. Shull (1975) Jacob Furth (1974), Deceased-1979 Dan L. Lindsley (1974), Research Professor Emeritus, U. of California - San Diego, Center for Molecular Genetics David M. Prescott (1974), Living in Colorado Franklin W. Stahl (1974) William L. Russell (1973) *** deceased - 2003 Richard B. Setlow (1973) *** Charlotte Auerbach (1970), Foreign Associate, deceased - 1993 Norman H. Giles (1966) Ray D. Owen (1966) William A. Arnold (1962), deceased - 2001 *** Seymour Benzer (1961) Alvin M. Weinberg (1961, deceased - October 2006) *** David M. Bonner (1959), deceased -1964 A. Hollaender (1957), deceased - 1990? *** Eugene P. Wigner (1945), deceased - 1995 Samuel Colville Lind (1930), deceased - 1965 *** Elected while at ORNL

PRESIDENTIAL EARLY CAREER AWARDS FOR SCIENTISTS AND ENGINEERS ORNL'S HISTORICAL WINNERS

07/16/2009

Ian Maclean Anderson (Metals and Ceramics Division) - 2001 For his leading-edge research in the development of electron beam microcharacterization techniques and their application to materials research and development

Gary A. Baker (Chemical Sciences Division) - 2008

For his outstanding research and pioneering achievements in the areas of materials science and environmentally-responsible chemistry that are leading to new paradigms in the separation sciences, chemical analysis, biomass processing, fuel cell technology, and energy storage applications

Daniel W. Bardayan (Physics Division) - 2005

For his innovative precision nuclear spectroscopy measurements at the ORNL Holifield Radioactive Ion Beam Facility clarifying the production of elements and radioisotopes in exploding stars

Jeffery C. Blackmon (Physics Division) - 2002

For pioneering work in implementing a program of measurements at the ORNL Holifield Radioactive Ion Beam Facility with radioactive nuclear beams to understand stellar explosions

Thomas Vincent Cianciolo (Physics Division) - 2001

For innovative definition of a unique measurement program for an experiment on the Relativistic Heavy Ion Collider and leadership in organizing and designing a principal detector that has been implemented at the facility

David J. Dean (Physics Division) - 1997

For research in the field of nuclear structure physics

Philip M. Jardine (Environmental Sciences Division) - 1996

For his studies relating to mobility of chemicals in subsurface, heterogeneous soil and rock systems

Ho Nyung Lee (Materials Science and Technology Division) - 2006 For his pioneering development of experimental methods and theoretical understanding leading to the atomic-scale synthesis by pulsed-laser deposition of ultra thin complex oxide heterostructures and completely artificial superlattice crystals with designed-in functionalities

James W. Lee (Chemical Technology Division) - 1998 For seminal contributions to photosynthesis research and its application to nanofabrication

Anthony Mezzacappa (Physics Division) - 1998 For his work identifying the explosive mechanism of core-collapse supernovae

David E. Newman (Fusion Energy Division) - 1997

For seminal contributions to the theoretical understanding of turbulence and transport in magnetic fusion devices

Lynne E. Parker (Computer Science and Mathematics Division) - 1999 (These awards were not granted until 2000, but Lynne told me that her award says "1999" on it.) For exceptional research and national leadership in the area of heterogeneous multi-robot cooperation

Jian Shen (Condensed Matter Sciences Division) - 2003 For his pioneering approach to the study of magnetism in nanostructured materials

Michael S. Smith (Physics Division) - 1996

For instituting a strong nuclear astrophysics research program, specifically utilizing radioactive beams

Jizhong (Joe) Zhou (Environmental Sciences Division) - 2001 For pioneering research and leadership in functional genomics and microbial ecology through the application of genomic technologies to address complex environmental problems

NOTES

Jacob L. Jones, (Neutron Scattering Science Division) - 2009 07/14/2009 ORNL Today:

DoD PECASE winner

Jacob Jones, a summer visitor from the University of Florida's materials science and engineering department, also was notified that he has received a PECASE under the Department of Defense. His project, "Domain Wall Motion in Phase Transforming Oxides," features real-time neutron and x-ray diffraction studies done at ORNL, Argonne's Advanced Photon Source and ANSTO in Australia. His proposal was supported by the Neutron Scattering Science Division's Xun-Li Wang and Mark Hagen.

D. L. Mykles, (Biology Division) - 1990

(03/31/1990 entry in Honors and Awards database):

Mykles was a former U. of TN postdoc fellow at ORNL, in the Biology Division, and was Associate Professor of Biology at Colorado State University when he won the NSF Presidential Young Investigator Award. For research done at ORNL on "Muscle Atrophy in Crabs and Lobsters."

Stephen E. Nagler (Neutron Scattering Science Division) - 1986 01/02/2008 Reference - Corporate Fellow biography for web page: Named a Presidential Young Investigator by the National Science Foundation.

Thomas G. Thundat (Health Sciences Research Division) - 1996 (WON DOE-OER YOUNG INDEPENDENT SCIENTIST AWARD BUT NOT PECASE AWARD)

For developing a novel class of universal micromechanical sensors for physical, chemical, and biological detectors

Andrey Zheludev, (Neutron Scattering Science Division) - 2000 11/09/2007 John Budai informed P. W. King that Andrey Zheludev won the PECASE in 2000 when he was at Brookhaven National Laboratory, before he came to ORNL. I confirmed this by referring to my files.

UT/ORNL DISTINGUISHED SCIENTISTS

02/11/2010

NOTE: The Distinguished Scientists program was established in 1984.

Current Appointments

Elbio Dagotto (2004) Takeshi Egami (2003) Jimmy Mays (2002) Joseph Macek (1988) Georges Guichon (1987) David Joy (1987) Robert Hatcher (1986)

Other Historical Appointments

Thom Dunning (2002) Peter Cummings (1994) Ward Plummer (1992) Jack Dongarra (1989) Jack Weitsman (1989) Francis E. Close (1988) Bernard Wunderlich (1988) J. Alan George (1986) Philip Siemens (1986) Robert E. Uhrig (1986) David White (1986; deceased - 2006) Jerry Mahan (1984)

University of Tennessee - ORNL Governor's Chairs - Appointments

02/11/2010

UT - ORNL Governor's Chair			
NAME	DIVISION		AWARD

UT - ORNL Governor's Chair			
NAME	DIVISION		AWARD
Zawodzinski, Thomas A.	Materials Science and Technology; University of Tennessee		Governor's Chair, UT-ORNL, for Electrical Energy Storage (5th such appointment)
Hall, Howard	Global Nuclear Security Technology; University of Tennessee		Governor's Chair, UT-ORNL, for Global Nuclear Security
Loeffler, Frank	Biological and Environmental Sciences Directorate; University of Tennessee		Governor's Chair, UT-ORNL, for Microbiology and Civil and Environmental Engineering (6th such appointment)
Smith, Jeremy	Biological and Environmental Sciences Directorate; University of Tennessee		Governor's Chair, UT-ORNL, for Neutron Science
Sokolov, Alexei	Chemical Sciences; University of Tennessee		Governor's Chair, UT-ORNL, for Polymer Science
Liu, Yilu	Energy and Transportation Science; University of Tennessee		Governor's Chair, UT-ORNL, for Power Electronics

Battelle Distinguished Inventors - Historical

02/11/2010

Inducted in 2010:

Charles L. Britton Jr. Elias Greenbaum

Inducted in 2009:

Gregory R. Hanson

Inducted in 2007:

Mark A. Janney - UT-Battelle (ORNL)

Michael L. Simpson

Inducted in 2006:

John S. Hsu Arthur J. (Artie) Moorhead Stephen F. Smith

Inducted in 2005:

John B. Bates - UT-Battelle (ORNL) James W. Klett Russ F. Knapp, Jr. Robert J. Lauf - UT-Battelle (ORNL)

Inducted in 2003:

Timothy D. Burchell Amit Goyal Donald M. Kroeger Chain Tsuan Liu Rodney A. McKee Mariappan (Parans) Paranthaman J. Michael Ramsey Vinod K. Sikka Thomas George Thundat Terry N. Tiegs Tuan Vo-Dinh

NOTE: Those designated as "UT-Battelle (ORNL)" are not recognized by Battelle Memorial Institute.

R&D 100 WINNERS ORNL, Y-12, AND K-25 HISTORICAL

10/09/2009

(NOTE: After 1987, the name of the award was changed from "I-R 100 Award" to "R&D 100 Award.")

2009

TITLE: AFA: Alumina-Forming Austenitic Stainless Steels

Submitter: Oak Ridge National Laboratory

Developers:

Michael P. Brady (Inventor or Principal Investigator) Yukinori Yamamoto Phil J. Maziasz Michael L. Santella Bruce A. Pint Chain T. Liu (University of Tennessee, retired from ORNL) Zhao Ping Lu (University of Science and Technology, Beijing, China, formerly ORNL) David P. Stinton James R. Keiser Vinod K. Sikka (retired from ORNL) Ian G. Wright

2009 TITLE: Superconducting "Wires" by Epitaxial Growth on SSIFFSTM

Submitter: Oak Ridge National Laboratory

Developers:

Amit Goyal (Inventor or Principal Investigator) John Outwater (Sapphire Systems, Inc.) Sung-Hun Wee (ORNL/University of Tennessee) Eliot D. Specht Yuri Zuev (ORISE postdoctoral fellow) Claudia Cantoni Dominic F. Lee James R. Thompson

2009 TITLE: Fire-Resistive Phase Change Material

Submitter: Oak Ridge National Laboratory

Joint Submitters:

Microtek Laboratories, Inc. (Dayton, OH) Advanced Fiber Technology (Bucyrus, OH)

Developers:

Oak Ridge National Laboratory Jan Kosny (Inventor or Principal Investigator) David Yarbrough

U.S. Department of Energy P. Marc LaFrance

Microtek

Tim Riazzi Dan Davis Dale Work

Advanced Fiber Technology Doug Leuthold

2009 TITLE: Thermomagnetic Processing (TMP) Technology

Submitter: Oak Ridge National Laboratory

Joint Submitters:

Eaton Corporation (Southfield, MI) American Magnetics, Inc. (Oak Ridge, TN) Ajax TOCCO Magnethermic Corporation (Boaz, AL)

Developers:

Oak Ridge National Laboratory Gerard M. Ludtka (Inventor or Principal Investigator) Gail Mackiewicz-Ludtka Roger A. Kisner John B. Wilgen Edward C. Hatfield Craig A. Blue Vinod K. Sikka (Ross Technology Corp., formerly with ORNL) Roger A. Jaramillo (Special Metals Corp., formerly with ORNL)

Eaton Corporation

Aquil Ahmed Alexander Bogicevic John A. Kovacich

American Magnetics, Inc.

Paul Arakawa Ronny Efferson Grey Laughon Aashish Chourey

Ajax TOCCO Magnethermic Corportion

Rich H. McKelvey Ronald R. Akers George D. Pfaffmann

2009 TITLE: Mass-Independent Kinetic-Energy-Reducing Inlet System for Mass Spectrometers

Submitter: Oak Ridge National Laboratory

Developers:

Peter T. A. Reilly (Inventor or Principal Investigator) Hideya Koizumi (07/27/2009 Added, per Peter Reilly) William B. Whitten (07/27/2009 Added, per Peter Reilly) Tom J. Whitaker, Atom Sciences (07/27/2009 Added, per Peter Reilly)

2009

TITLE: MELCOT: Methodology for Estimating the Life of Power Line Conductor-Connector Systems Operating at High Temperatures

Submitter: Oak Ridge National Laboratory

Joint Submitters:

Electric Power Research Institute (Palo Alto, CA) Tennessee Valley Authority (Chattanooga, TN) PBS&J, Inc. (Dallas, TX)

Developers:

Jy-An John Wang Edgar Lara-Curzio Thomas J. King Jr.

2009 TITLE: Artificial Retina

Submitter: Lawrence Livermore National Laboratory

Joint Submitters:

Argonne National Laboratory Los Alamos National Laboratory Oak Ridge National Laboratory Sandia National Laboratories United States Department of Energy California Institute of Technology Doheny Eye Institute (University of Southern California, Keck School of Medicine) North Carolina State University University of California at Santa Cruz Second Sight[®] Medical Products, Inc.

Inventors or Principal Developers:

Orlando Auciello, Argonne National Laboratory Satinderpall Singh Pannu, Lawrence Livermore National Laboratory John George, Los Alamos National Laboratory Elias Greenbaum, Oak Ridge National Laboratory Kurt O. Wessendorf, Sandia National Laboratories Dean A. Cole, United States Department of Energy Wolfgang Fink, California Institute of Technology Mark Humayun, Doheny Eye Institute Gianluca Lazzi, North Carolina State University Wentai Liu, University of California at Santa Cruz Robert J. Greenberg, Second Sight® Medical Products, Inc.

Additional Developers List

Argonne National Laboratory:

Bing Si (Postdoctoral Researcher) Wei Li (Postdoctoral Researcher)

Lawrence Livermore National Laboratory:

Phillipe Tabada William Benett James Courtney Davidson Terri Delima Emil Geiger Julie Hamilton

Los Alamos National Laboratory:

Andrew M. Dattelbaum Michael I. Ham (Postdoctoral Research Associate) Garrett Kenyon Jurgen G. Schmidt

Oak Ridge National Laboratory:

Charlene A. Sanders

California Institute of Technology:

Mark A. Tarbell

Doheny Eye Institute:

Developer Name: James Weiland Gerald Chader Lindy Yow Hossein Ameri Brooke Basinger Leanne Chan Konstantin Kolev Lucien Laude Atoosa Lotfi Anderson Pinto Aditi Ray Adrian Rowley Biju Thomas

North Carolina State University:

Carlos Cela (Graduate student) Keyoor Gosalia (Graduate student) Amit Qusba (Graduate student) Stefan Schmidt (Graduate student) Vinit Singh (Graduate student) Shruthi Soora (Graduate student) Zhi Yang (Graduate student)

University of California at Santa Cruz:

LiHsien Wu (Graduate student) Jungsuk Kim (Graduate student) Moo Sung Chae (Graduate student) Linh Hoang (Graduate student) KuanFu Chen (Graduate student) Mingcui Zhou, Ph.D. (Graduate student)

Second Sight Medical Products Inc.

Alfred E Mann Avraham I. Caspi Richard Agustin Castro Rongqing Dai Anne-Marie De Merlier Ripley Jessy Dorn Sanjay Gaikwad Amy Hines Karl-Heinz Ihrig Mohamed Khaldi James S. Little Scott M. Loftin Pishoy Maksy Kelly McClure Matthew J. McMahon Brian Mech Jordan Neysmith Jerry Ok Arup Roy Neil H. Talbot Neha Vyas Donald A. Webber Sumit Yadav Qingfang Yao Chunhong Zhou DaoMin Zhou

2009 TITLE: PulseForge 3100 with Pulse Thermal Processing

Submitter: NovaCentrix Corporation (Austin, TX)

Joint Submitter:

Oak Ridge National Laboratory

Developers:

NovaCentrix

Stan Farnsworth Kurt Schroder Doug Jackson Steven McCool Dave Pope Ted Kierzyk Doug Lind Ian Rawson Ron Sommers

Oak Ridge National Laboratory

Craig Blue Art Clemons Nancy Dudney Chad Duty David Harper Ron Ott John Rivard (DARPA/DSO Contract Support)

2008 TITLE: Adaptive Band Excitation Controller and Software for Scanning Probe Microscopy

Submitted by:	Oak Ridge National Laboratory
Joint Submitters:	Asylum Research Corporation (Santa Barbara, California)
Developers: Division)	Sergei V. Kalinin (Center for Nanophase Materials Sciences
	Stephen Jesse (postdoctoral fellow)
	Roger Proksch (Asylum Research Corp.)

2008 TITLE: Cratos V[™]: A Nano-Wool Product Derived from Carbon Nanotubes

Submitted by: Oak Ridge National Laboratory

Joint Submitters: Babcock & Wilcox Technical Services Y-12, LLC (B&W Y-12, Oak Ridge, Tennessee)

Developers:

- ORNL: Paul A. Menchhofer (Materials Science and Technology Division) Vinod K. Sikka (Consultant - formerly Materials Science and Technology Division) Fred C. Montgomery (Materials Science and Technology Division)
- B&W Y-12: Roland D. Seals

2008 TITLE: Laser-Induced Fluorescence Composite Heat Damage Detector

Submitted by: Oak Ridge National Laboratory

Joint Submitters: Galt Technologies, LLC (Knoxville, Tennessee)

Developers:

- ORNL: Chris J. Janke (Materials Science and Technology Division) Art Clemons (Department of Defense Programs) Cliff Eberle (Materials Science and Technology Division) Curt Maxey (Energy and Transportation Science Division) John Storey (Energy and Transportation Science Division)
- Galt Technologies, LLC: Walt Fisher Eric Wachter Josh Fisher

2008

TITLE: NanoSH[™] Superhydrophobic Technology

Submitted by: Oak Ridge National Laboratory

Joint Submitters: Ross Technology Corporation (Leola, Pennsylvania)

Developers:

ORNL: Div.)	John T. Simpson (Measurement Science and Systems Engineering		
,	Brian R. D'Urso (Measurement Science and Systems Engineering		
Div.)	Steve R. McNeany (Measurement Science and Systems		
Engineering Div.)	Vinod K. Sikka (Consultant - formerly Materials Science and		
Technology	Division)		
Ross Technology C	Corporation: Donald E. Speicher Andrew K. Jones		

2008 TITLE: SpaciMS: Spatially Resolved Capillary Inlet Mass Spectrometer

Submitted by: Cummins, Inc. (Columbus, Indiana)

Joint Submitters: Oak Ridge National Laboratory Queen's University Belfast, School of Chemistry & Chemical Engineering (Belfast, UK) Hiden Analytical (Warrington, UK) Babcock & Wilcox Technical Services Y-12, LLC (B&W Y-12, Oak

Ridge, Tennessee)

Developers:

Cummins, Inc.:	Neal W. Currier Aleksey Yezerets	
ORNL: Division)	William P. Partridge,	Jr. (Energy and Transportation Science
	John M. Storey (Ene	rgy and Transportation Science Division) ergy and Transportation Science Division) gy and Transportation Science Division)
CenTACat, Queen's	s University Belfast:	Alexandre Goguet Christopher Hardacre
Hiden Analytical:	David Lundie Terry Whitmore Adrian Jessop	
B&W Y-12:	Gerald L. DeVault Robert W. Smithwich	< III

2008
TITLE: 2-MGEM, Optical Anisotropy Factor Measurement System

Submitted by: Hinds Instruments, Inc. (Hillsboro, Oregon)

Joint Submitters: Oak Ridge National Laboratory

Developers:

Hinds Instruments, Inc.:	Doug Mark Baoliang (Bob) Wang Andy Breninger Tarik Hadid Chad Mansfield Bob Lakanen Abebe Gezahegn
ORNL: Division)	Gerald E. Jellison (Materials Science and Technology
	John D. Hunn (Materials Science and Technology Division) Christopher M. Rouleau (Center for Nanophase Materials Sciences Division)

2007

Materials Science and Technology; Department of Defense Programs and External Institutions: International Titanium Powder, Inc.; BAE Systems; AMETEK; National Energy Technology Laboratory; Red Devil Brakes; and Army Research Laboratory

Submitted by: International Titanium Powder, Inc.

Joint Submitters: Oak Ridge National Laboratory BAE Systems AMETEK National Energy Technology Laboratory Red Devil Brakes Army Research Laboratory

Developers:

International Titanium Powder, Inc.:

Donn Reynolds Stanley S. Borys Richard Paul Anderson Grant Crowley Arthur Wong Taras Lyssenko

	William Ernst Lance Jacobsen Dariusz Kogut
Oak Ridge National Laboratory:	Craig A. Blue Jim O. Kiggans, Jr. Stephen Nunn Phil Sklad William H. Peter (post doctoral fellow) John Rivard (post doctoral fellow) Art Clemons
BAE Systems:	T. James Dorsch
AMETEK:	Clive Scorey Charlie Yu Joe Capone
National Energy Technology Laboratory	: Paul Turner Stephen J. Gerdemann Paul Jablonski

Red Devil Brakes:	Jerry Martino
-------------------	---------------

IPT, Armstrong Process CP Ti and Ti Alloy Powder and Products

2007 Computational Sciences and Engineering

Submitted by: Oak Ridge National Laboratory

Joint Submitters: NA

Developers:

ORNL: Mark T. Elmore Brian A. Klump Robert M. Patton Thomas E. Potok Joel W. Reed Jim N. Treadwell

Piranha: A Dynamic, High-Speed, High-Volume, Knowledge Discovery Engine

2007

Engineering Science and Technology and Nuclear Science and Technology and External Institutions: Lawrence Livermore National Laboratory and Space Sciences Laboratory, University of California at Berkeley (Berkeley, CA)

Submitted by:	Lawrence Livermore National Laboratory	
Joint Submitters:	0	
Berkeley, CA	Space Sciences Laboratory, University of California at Berkeley	
Developers:		
ORNL:	Lorenzo Fabris (Principal Developer) Klaus-Peter Ziock (Principal Developer) Thomas P. Karnowski	
LLNL:	Jeff Collins Dennis Carr	

Space Sciences Laboratory, University of California at Berkeley: Will Marchant

Large Area Imager for Standoff Detection (LAI)

2007 Chemical Sciences and Materials Science and Technology and SuperPower, Inc. (Schenectady, NY)

Submitted by: SuperPower, Inc. - Schenectady, NY

Joint Submitter: Oak Ridge National Laboratory

Developers:

SuperPower, Inc.: Venkat Selvamanickam X. Xiong

ORNL: M. Parans Paranthaman Tolga Aytug (also affiliated w/ University of Tennessee, Knoxville) Amit Goyal

High-Performance LMO-enabled, High Temperature Superconducting Wires

2007

Neutron Scattering Science; Neutron Facilities Development; and Engineering Science and Technology

Submitted by: Oak Ridge National Laboratory

Joint Submitters: NA

Developers:

ORNL: Richard Riedel Ronald G. Cooper Lloyd G. Clonts

TITLE: Pharos Neutron Detector System

2007

Materials Science and Technology; Fabrication and External Institutions: Duraloy Technologies, Inc. (Scottdale, PA); Consultant; and Mittal Steel USA (Chesterton, IN)

Submitted by:	Duraloy Technologies, Inc Scottdale, PA
Joint Submitters:	Oak Ridge National Laboratory Anthony P. Martocci (Consultant - Bethlehem, PA) Mittal Steel USA - Chesterton, IN

Developers:

Duraloy Technologies, Inc.: Roman I. Pankiw

ORNL: Vinod K. Sikka

Michael L. Santella Jeffrey D. McNabb

Private Consultant: Anthony P. Martocci

Mittal Steel USA: John Mengel

Cast Nickel Aluminide for Improved Productivity of Steel Heat-Treating Furnaces

2006 Materials Science and Technology SUBMITTED BY: C3 International, LLC JOINT w/: Oak Ridge National Laboratory Hayes Lemmerz International Inc. Surface Engineering Associates Infrared Heating Technologies, LLC Magna-Tech Manufacturing **Advanced Materials Associates** Vitek Performance Pyromation, Inc. **Delaware Tool & Machinery** Heinz North America University of Tennessee, Knoxville North American Die Casting Association (NADCA)

Craig A. Blue, Puja B. Kadolkar, Chaitanya K. Narula, Arvid E. Pasto, Gail Mackiewicz-Ludtka, Charles R. Howell, Edward C. Hatfield, Vinod K. Sikka, Gerald E. Jellison, Thomas R. Watkins, Roberta Ann Meisner, Peter J. Blau, Harry M.Meyer III, John J. Truhan, Larry F. Allard, Gerald M Ludkta, Wallace D. Porter, Edgar Lara-Curzio, Mark A. Deininger (C3 International), Mike Pozvonkov (C3 International), Leonid V. Budaragin (C3 International), Joe Keenan (C3 International), Dwaine Stark (C3 International), Drew Keenan (C3 International), Morgan Spears (C3 International) Paul Fisher (C3 International), Norman H. Garrett (Vitek Performance), Greg Wojcek (Hayes Lemmerz International, Inc), Bernie Jaeger (Hayes Lemmerz International, Inc), Jack Stiglich (Advanced Materials Associates), Charles T. Blue (Infrared Heating Technologies, LLC), Randall Blue (Infrared Heating Technologies, LLC), Dan Irvin (Magna-Tech Manufacturing), Stewart Irvin (Magna-Tech Manufacturing), Pete Wilson (Pyromation, Inc.), Richard F. Wilson (Pyromation, Inc.), Mark Everhart (Pyromation, Inc.), Joseph A. Downie (Surface Engineering Associates, Inc.), Phillip Roundtree (Surface Engineering Associates, Inc.), Greg Prince (Delaware Tool & Machinery), Harry Richey (Delaware Tool & Machinery), Mike Schneider (Heinz North

America), Gary M. Thomas (Heinz North America), Narendra B. Dahotre (University of Tennessee - Knoxville)

C³[™] Metal Infusion Surface Treatment (MIST)

2006

Computational Sciences and Engineering

Edward A. Bright, Phillip R. Coleman, Amy L. King, Budhendra L. Bhaduri and Eddie P. Tinnel

LandScan[™] 2004 Global Population Database

2006

Engineering Science and Technology

JOINT w/: Sunlight Direct, LLC; Oak Ridge TN

Jeffrey D. Muhs, David L. Beshears, Art Clemons, Dennis D. Earl, John K. Jordan, Melissa Voss Lapsa, Randall F. Lind, L. Curt Maxey, Christina D. Ward and R. Wes Wysor

Hybrid Solar Lighting Systems

2006

Materials Science and Technology; Duraloy Technologies, Inc.; and Nucor Steel JOINT w/: Duraloy Technologies, Inc., Scottdale PA and Nucor Sheet Mill Group, Crawfordsville IN

Govindarajan Muralidharan, Vinod Kumar Sikka, Phil J. Maziasz, Neal D. Evans, Michael L. Santella, Christopher O. Stevens, Ken C. Liu (retired), Roman I. Pankiw (Duraloy Technologies Inc.) and Scott Sexton (Nucor Steel –Indiana, Sheet Mill Group) TMA[®] 6301 and TMA[®] 4701: New Heat-Resistant Alloys

2006

Environmental Sciences, Engineering Science and Technology, Chemical Sciences, Consultant, ORISE

Tommy J. Phelps, Lonnie Love, Adam Rondinone, Robert J. Lauf (Consultant), Yul Roh (Postdoc), Chuanlun Zhang (Postdoc) and Ji-Won Moon (Postdoc)

NanoFermentation[™]: A Bioprocess for Manufacturing Inorganic Nanomaterials

2006

Engineering Science and Technology; Trane Company JOINT w/: Trane Company; Lexington KY Jim Sand (ORNL, Retired) and Art Hallstrom (Trane Company; Lexington KY) **Trane CDQ[™]**

2005

Computational Sciences and Engineering; Computer Science and Mathematics; Life Sciences

Lee M. Hively, Vladimir A. Protopopescu, Kara L. Kruse and Nancy B. Munro **SeizAlert - A Seizure Alerting Device**

2005

Engineering Science and Technology and SEMCO, Incorporated (Columbia, MO) JOINT w/: SEMCO, Incorporated (Columbia, MO)

James R. Sand (ORNL) and John C. Fischer (SEMCO, Inc.)

SEMCO Revolution™: Integrated, Active-Desiccant Rooftop Air Conditioner

2005

Engineering Science and Technology and SensArray Corporation (Freemont, CA) JOINT w/: SensArray Corporation (Freemont, California)

Carl W. Sohns (ORNL), Robert J. Lauf (Consultant), Don W. Bible (Retired), Wayne Renken (SensArray Corporation), Earl Jensen (SensArray Corporation), Brian Paquette (SensArray Corporation), Jeff Parker (SensArray Corporation) and Jim Barnett (SensArray Corporation)

SensArray® INtegrated Wafer

2004

Metals and Ceramics; Komtek; Queen City Forging Co.; Forging Industry Association; Northeastern University; Infrared Heating Technologies, LLC

JOINT W/: Komtek (Worcester MA)

Queen City Forging Company (Cincinnati OH) Forging Industry Association (Cleveland OH)

Northeastern University (Boston MA)

Infrared Heating Technologies, LLC (Oak Ridge TN)

Craig A. Blue (ORNL), Puja B. Kadolkar (ORNL), Peter G. Engleman (Doctoral Student at ORNL), Charles R. Howell (ORNL), Jackie R. Mayotte (ORNL), Vinod K. Sikka (ORNL), Evan K. Ohriner (ORNL), Robert Kervick (Komtek), Howard Mayer (Queen City Forging Company), George Mochnal (Forging Industry Association), Teiichi Ando (Northeastern University), Hui Lu (Doctoral Student at Northeastern University) and Charles T. Blue (Infrared Heating Technologies, LLC)

Advanced Heating System for High-Performance Aluminum Forgings

2004

Environmental Sciences; Chemical Sciences; The University of Tennessee - Knoxville; Edwards AF Base

Baohua Gu, Gilbert Brown, Bruce A. Moyer, Peter V. Bonnesen, Spiro D. Alexandratos (The University of Tennessee - Knoxville) and Paul Schiff (Edwards AF Base, California)

ORNL Highly Selective, Regenerable Perchlorate Treatment System

2004

Life Sciences; University of Tennessee

JOINT W/: Naval Research Laboratory

Thomas G. Thundat (ORNL), Lal A. Pinnaduwage (ORNL), David Hedden (University of Tennessee), Tony Gehl (ORNL), Vassil Boiadjiev (Post Doctoral Fellow, ORNL) and Eric Hawk (Student, ORNL)

Explosives Vapor Sensor

2003

Engineering Science and Technology

Panos Datskos, Slobodan Rajic, Lawrence Senesac, James Corbeil, Nickolay V. Lavrik **UMIR-CAM: Uncooled Micromechanical Infrared Camera**

2003

Metals and Ceramics; Caterpillar; Bradley University; Solar Turbines JOINT W/: Caterpillar, Inc. ORNL: Philip J. Maziasz and Robert W. Swindeman; Caterpillar Technical Center, but

Frary is currently on leave and graduate student at M.I.T.: Michael J. Pollard and Megan

E. Frary; Caterpillar Track-Type Tractors Business Unit: Chad Siebenaler; Bradley

University: Timothy E. McGreevy; Solar Turbines - DeSoto Overhaul Facility: Paul F.

Browning; Solar Turbines - Materials & Processes Engineering: Arun K. Bhattacharya

CF8C-Plus: New Cast Stainless Steel for High-Temperature Performance

2003

Chemical Sciences; Protasis Corp.

JOINT W/: Protasis Corp.

ORNL: J. Michael Ramsey, William B. Whitten, Peter T. A. Reilly and Oleg Kornienko (postdoctoral fellow); Protasis, Corporation: David Strand

Protasis MicroTrapMS[™]: MicroTrap Mass Spectrometer

2003

Life Sciences; Engineering Science and Technology; RIS, Inc. ORNL: Tuan Vo-Dinh, Alan L. Wintenberg, Joel Mobley, Brian M. Cullum, David L. Stokes and Steven S. Frank; RIS, Inc.: Robert Maples **RAMiTS: Raman Integrated Tunable Sensor**

2002

Life Sciences; Engineering Science and Technology JOINT WITH: Innovadyne Technologies ORNL: Mitchel J. Doktycz (Life Sciences) and J. Steven Hicks (Engineering Science and Technology); Innovadyne Technologies, Inc.: James E. Johnson, Neil R. Picha and Dave Martin

ASAP [™] (Any Source Any Position) Fluid Handler

2002 Engineering Science and Technology; JOINT WITH: Applied Materials, Inc. ORNL: Kenneth W. Tobin, Thomas P. Karnowski and Regina K. Ferrell; Applied Materials, Inc.: Amos Dor, Barry Wong and Yifah Gavra

DSI[™] - AIR: Defect Source Identifier - Automated Image Retriever

2002

Nuclear Science and Technology; Metals and Ceramics JOINT WITH: Inventure Laboratories, Inc. J. A. Wang (Nuclear Science and Technology) and K. C. Liu (Metals and Ceramics) **ORNL Spiral-Notch Torsion Test (SNTT) System**

2001 Joint w/ ECR International and Arthur D. Little Energy R. Zogg (Arthur D. Little), R. Williams (Arthur D. Little), J. Hoyt (Enviromaster International Corporation), V. D. Baxter (Energy), R. W. Murphy (Energy), J. J. Tomlinson (Energy), and R. L. Linkous (Energy) **Drop-In Residential Heat Pump Water Heater**

2001 Life Sciences Ying Xu (Life Sciences) and Dong Xu (Life Sciences) **PROSPECT (copyright) - PROtein Structure Prediction and Evaluation Computer Toolkit**

2000

Joint w/ Poco Graphite, Inc.

Metals and Ceramics, Office of Technology Transfer

James W. Klett (Metals and Ceramics), Timothy D. Burchell (Metals and Ceramics), Ashok Choudhury (Office of Technology Transfer), Ron Mertz (POCO Graphite, Inc.), Charles Turner (POCO Graphite, Inc.) and Lee W. Wiechmann (POCO Graphite, Inc.) **ORNL High-Thermal-Conductivity Graphite Foam**

2000

Joint w/ Orbital Sciences Corporation, MSP Corporation, Colorado School of Mines, and U.S. Army Soldier and Biological Chemical Compound

Chemical and Analytical Sciences, Instrumentation and Controls, Computational Physics and Engineering, Life Sciences, and Computer Science and Mathematics (and LMES Advanced Technologies)

Wayne H. Griest (Chemical and Analytical Sciences), William H. Andrews (Instrumentation and Controls), Don W. Bible (Instrumentation and Controls), J. Eric Breeding, Michael N. Burnett (Chemical and Analytical Sciences), Kim N. Castleberry (Instrumentation and Controls), Dwight A. Clayton (Instrumentation and Controls), Richard I. Crutcher (Instrumentation and Controls), Kevin J. Hart (Chemical and Analytical Sciences), Mike S. Hileman (Instrumentation and Controls), Ralph H. Ilgner (Chemical and Analytical Sciences), W. Bruce Jatko (Instrumentation and Controls), Roger A. Jenkins (Chemical and Analytical Sciences), Stephen A. Lammert (Chemical and Analytical Sciences), David E. McMillan (Instrumentation and Controls), Randy L. McPherson (Chemical and Analytical Sciences), Roosevelt Merriweather (Chemical and Analytical Sciences), Richard W. Reid (Computational Physics and Engineering), Irene F. Robbins (Computational Physics and Engineering), David E. Smith (Instrumentation and Controls), Robert R. Smith (Chemical and Analytical Sciences), Carl W. Sohns (Instrumentation and Controls), K. Ann Stewart (LMES Advanced Technologies), Cynthia L. Terry (Computational Physics and Engineering), Cyril V. Thompson (Chemical and Analytical Sciences), Arpad A. Vass (Life Sciences), Robert A. Whitaker (Computational Physics and Engineering), Marcus B. Wise (Chemical and Analytical Sciences), Dennis A. Wolf (Computer Science and Mathematics), R. Wes Wysor (Instrumentation and Controls), and Judy C. Zager (Computational Physics and Engineering)

ORBITAL SCIENCES CORPORATION:

Shephard T. Girion, Francis Dompier, William S. Donaldson, Hsienchi William Niu, Gus Norton, Mike Phillips, Gerry Stillman, and Harry Tamme MSP CORPORATION:

Darryl L. Roberts, Benjamin Y. H. Liu, Virgil A. Marple, and Francisco J. Romay COLORADO SCHOOL OF MINES:

Kent J. Voorhees, Franco Basile, Michael J. Beverly, Chris Abbas-Hawks, and Allen B. Henderson

US ARMY SOLDIER AND BIOLOGICAL CHEMICAL COMMAND:

Alexander Hryncewich and David Sickenberger

The Block II Chemical Biological Mass Spectrometer (Block II CBMS)

2000

Joint w/ Beamline Technology Corporation

Metals and Ceramics

Gene E. Ice (Metals and Ceramics) and Andrew Lunt (Beamline Technology Corporation)

Differentially Deposited X-Ray Microfocus Mirrors

1999 ORNL Administrative Services; Metals and Ceramics Wilson, Kirk A.; Burchell, Timothy D.; and Judkins, Roddie R. Self-Cleaning Carbon Air Filter

1999

ORNL

Life Sciences, Instrumentation and Controls, Post Doc, Graduate Student Vo-Dinh, Tuan; Wintenberg, A. L.; Ericson, M. N.; Alarie, J. P.; Isola, Narayan (post doc); Askari, M.(Grad Student); Miller, G. H. The Multifunctional Biochip

1999

ORNL; Joint w/ American Iron and Steel Institute (Joseph Vehec), Bailey Engineers, Inc. (Richard A. Barcelona), and

National Steel Technical Center (Liwei Zhang) Engineering Technology; Instrumentation and Controls Allison, Stephen W.; Beshears, David L.; Cates, Michael R.; Childs, R. Mitchell; Manges, W. W.; McIntyre, Timothy J.; and Simpson, Marc The Galvaneal Temperature Measurement System (GTMS)

1999

ORNL

Metals and Ceramics; Solid State; Chemical and Analytical Sciences; Post Doc Goyal; Budai; Norton; Specht; Christen; Kroeger; Paranthaman; List; Feenstra; Lee; Beach; Martin; Hatfield; Mathis; Park (post doc); Cui (post doc); Verebelvi (post doc); Williams; Cantoni (post doc); Kerchne

(post doc); Cui (post doc); Verebelyi (post doc); Williams; Cantoni (post doc); Kerchner; Chirayil (post doc)

RABiTS (trademark): Low Cost, Single-Crystal-Like, Flexible Substrates for Energy/Electronic Applications

1999

ORNL

Engineering Technology; EEG, Inc.; Development (LMES) Datskos, Panos G.; Rajic, Slobodan; Evans, B. M., Datskou, Irene; Egert, Charles M. (deceased)

Micromechanical Quantum Detector

1999 ORNL Energy Mei, V. C.; Chen, F. C.; Murphy, R. W.; Domitrovic, R. E. Frostless Heat Pump

1999

UT; Joint w/ ORNL Computer Science and Mathematics; University of California - San Diego Dongarra, Jack J. and Casanova, Henri NetSolve 1.2

1999 UT; Joint w/ ORNL Computer Science and Mathematics; University of Tennessee Dongarra, Jack J. and Whaley, R. Clint ATLAS

1998 ORNL COMPUTER SCIENCE AND MATHEMATICS BARHEN, JACOB; OBLOW, E. M.; PROTOPOPESCU, VLADIMIR A.; AND REISTER, DAVID B. TERMINAL REPELLER UNCONSTRAINED SUBENERGY TUNNELING (TRUST): A COMPUTATIONAL TOOL FOR GLOBAL OPTIMIZATION

1998

ORNL ENGINEERING TECHNOLOGY; Y-12 DEVELOPMENT DATSKOS, PANOS G.; RAJIC, SLOBODAN; EGERT, CHARLES M. CALSPEC CHEMICAL SENSOR, CSCS-10

1997

ORNL, LMES, LLNL, LANL, SNL, IBM CENTER FOR COMPUTATIONAL SCIENCE; INFORMATION TECHNOLOGY SERVICES KLIEWER K-BURRIS R-MILLION D-STEINERT D-WHITE V; PLUS 34 EXTERNAL DEVELOPERS HIGH PERFORMANCE STORAGE SYSTEM (HPSS)

1997

ORNL CHEMICAL TECHNOLOGY; LIFE SCIENCES COLLINS, EMORY D.; MIRZADEH, SAED; KNAPP, F.F. MODULAR TECHNETIUM 99-M CONCENTRATOR

1997

ORNL/ANL/PNL/NREL/APPLIED CARBOCHEM CHEMICAL TECHNOLOGY DAVISON BH; NGHIEM NP; SUTTLE BE; ANL: DONNELLY M, MILLARD CS, TSAI S-P, AND WU M; PNL: FRYE J, WANG J, AND WERPY T; NREEL: LANDUCCI R AND PETERSON G; APPLIED CARBOCHEMICALS, INC.: GRIFFIN M PRODUCTION OF CHEMICALS FROM BIOLOGICALLY DERIVED SUCCINIC ACID (BDSA)

1997

ORNL; LMES; ATOMIC ENERGY OF CANADA ENGINEERING TECHNOLOGY; Y-12 DEVELOPMENT JANKE CJ; DORSEY GF (Y-12); HAVENS SJ (ORISE POST DOCTORAL STUDENT);LOPATA VJ (ATOMIC ENERGY OF CANADA, LTD.) ELECTRON-BEAM-CURABLE CATIONIC EPOXY RESINS

1997 ORNL/SUPELCO INC. CHEMICAL AND ANALYTICAL SCIENCES SIGMAN ME; DINDAL A; WACHOB G (SUPELCO, INC.) METHYLATED SOL-GEL SORBENT (M-SGS)

1997

ORNL/THOMPSON ALUMINUM CASTING CO. METALS AND CERAMICS VISWANATHAN S; PURGERT RM (THOMPSON ALUMINUM CASTING CO.) METAL COMPRESSION FORMING

1997

ORNL/LAMBDA TECHNOLOGIES INSTRUMENTATION AND CONTROLS; METALS AND CERAMICS BIBLE D; LAUF R; LAMBDA TECHNOLOGIES: FATHI Z, HAMPTON M, AND STEVENS R VARI-WAVE, MICROWAVE HEATING INSTRUMENT

1997

LMES/ORNL/BLASCH PRECISION CERAMICS Y-12 DEVELOPMENT; METALS AND CERAMICS MORROW MS (Y-12); KIGGANS JO, JR. (ORNL); HOLCOMBE, C.E. (RETIRED FROM Y-12; CONSULTANT TO ORNL M&C DIV); REXFORD DG (BLASCH PRECISION CERAMICS) METAL CERAMIC COMPOSITE CRUCIBLE

1997

LMES/ORNL NATIONAL SECURITY PROGRAMS OFFICE; PROTECTIVE SERVICES; I&C; ENGINEERING LABAJ; BATH; BAYLOR; CARROLL; DRESS; FULLER; HICKERSON; KERCEL; MCCOIG; PACK ENCLOSED SPACE DETECTION SYSTEM

1996 ORNL SOLID STATE BATES JB - DUDNEY NC - LUCK CF THIN-FILM RECHARGEABLE LITHIUM BATTERIES

1996 ORNL/EXTERNAL HEALTH SCIENCES RESEARCH - GENASE, INC. DEES C (GENASE, INC.) GENCELL 101

1996

ORNL/EXTERNAL SOLID STATE - COMMERCIAL CRYSTAL LABORATORIES, INC. FEENSTRA R - BOATNER LA - URBANIK M (COMMERCIAL CRYSTAL LABORATORIES, INC.) POTASSIUM TANTALATE (NIOBATE) SUBSTRATES FOR ELECTROOPTIC AND SUPERCONDUCTING FILM GROWTH

1996 ORNL CHEMICAL AND ANALYTICAL SCIENCES RAMSEY JM - JACOBSON SC LABORATORY-ON-A-CHIP

1996 ORNL/EXTERNAL HEALTH SCIENCES RESEARCH - CONSULTEC SCIENTIFIC, INC. THUNDAT T - WACHTER EA - WARMACK RJ - ODEN PI (POST DOCTORAL FELLOW) - DATSKOS PG (CONSULTEC SCIENTIFIC, INC.) MICROCANTILEVER MERCURY VAPOR SENSOR AND NONCONTACT MICROMECHANICAL THERMOMETER

1996 ORNL HEALTH SCIENCES RESEARCH VO DINH T - HOUCK KS - STOKES DL SURFACE-ENHANCED RAMAN GENE (SERGen) PROBE

1995 ORNL METALS AND CERAMICS SIKKA VK - VOUGHT JD - DEEVI SC EXO-MELT PROCESS

1995 ORNL METALS AND CERAMICS JANNEY MA - OMATETE OO - NUNN SD - WALLS CA GELCASTING

1995 ORNL INSTRUMENTATION AND CONTROLS REMENYIK CJ - HYLTON JO - MCKNIGHT TE - HUTCHENS RE GRAVIMETRIC GAS FLOW CALIBRATOR 1995

ORNL INSTRUMENTATION AND CONTROLS KERCEL SW - DRESS WB - ROCHELLE RW - MOORE MR MAGNETIC SPECTRAL RECEIVER

1995

ORNL/EXTERNAL METALS AND CERAMICS - 3M COMPANY STINTON, JUDKINS, LOWDEN, AND MCLAUGHLIN (ALL OF ORNL); BAILEY JT, FISCHER EM, EATON JH, KAHNKE JL, PYSHER DJ, SMITH RG, WEAVER BL (ALL OF 3M COMPANY, INC.) 3M CERAMIC COMPOSITE FILTER

1994 ORNL HEALTH SCIENCES RESEARCH VO-DINH T - PAL A - RAMIREZ L - PAL T LUMINESCENCE SPOT TEST FOR PCBs

1994 ORNL/EXTERNAL ENGR PHYS & MATH - EMORY U - U OF TENNESSEE - CARNEGIE-MELLON U GEIST A - SUNDERAM VS (EMORY U.) - MANCHEK RJ (U. OF TN) - DONGARRA JJ (U. OF TN) - BEGUELIN AL PARALLEL VIRTUAL MACHINE (PVM)

1993 ORNL/Y-12/ENGINEERING/EXTERNAL CHEMISTRY - DEVELOPMENT - ENGR - R&D SOLUTIONS - UNITED CATALYST, INC. TEAM - GRIFFITH, COMPERE, HUXTABLE, GOOGIN, DAVIS (MMES); THORNTON, ET AL (R&D SOLNS); JERUS & PFENIG (UNITED CATALYST) CL2EAN OUT CATALYST AND PROCESS

1993 ORNL BIOLOGY MAZUR CRYOPRESERVATION OF DROSOPHILA EMBRYOS

1993 ORNL ENGINEERING PHYSICS AND MATHEMATICS - ROBOTICS AND PROCESS SYSTEMS PIN FG - KILLOUGH SM OMNIDIRECTIONAL HOLONOMIC PLATFORM (OHP)

1992 ORNL METALS AND CERAMICS LEE EH-LEWIS MB-MANSUR LK HARD SURFACED POLYMERS

1992 ORNL HEALTH AND SAFETY RESEARCH VO-DINH T-STOKES DL (UT STUDENT) SURFACE-ENHANCED RAMAN OPTICAL DATA STORAGE (SERODS) SYSTEM

1992 ORNL ENERGY/HEALTH AND SAFETY RESEARCH CHEN FC-ALLMAN SL-CHEN CH CFC/HFC RATIOMETER

1992 ORNL ENGINEERING PHYSICS AND MATHEMATICS/BIOLOGY UBERBACHER EC-MANN RC-MURAL RJ GRAIL

1991 APPLIED TECHNOLOGY (K-25) TECHNICAL ANDERSON, RW/NEFF WA ENVIRO-CP ELECTROLESS NICKEL BATH RECOVERY BY ION EXCHANGE AND PRECIPITATION

1991 ORNL APPLIED TECHNOLOGY HAWK LS/TURNER JH DIRECT MANUAL BRAILLEWRITER

1991 ORNL/EXT METALS AND CERAMICS/UNIVERSITY OF TENNESSEE SIKKA VK/HOBSON DO/ALEXEFF I (U. OF TN) ELECTROMAGNETIC LIQUID METAL INCLUSION REMOVAL DEVICE 1991 ORNL INSTRUMENTATION AND CONTROLS/METALS AND CERAMICS HOFFHEINS BS/LAUF RJ RAPID FUEL ANALYZER

1990 ORNL METALS AND CERAMICS MAZIASZ PJ/SWINDEMAN RW ORNL HT-UPS (HIGH-TEMPERATURE, ULTRAFINE-PRECIPITATE-STRENGTHENED) "LEAN" AUSTENITIC STAINLESS STEEL

1990 ORNL METALS AND CERAMICS MCKAMEY CG/SIKKA VK/LIU CT DUCTILE IRON ALUMINIDES

1990 ORNL/EXT SOLID STATE-VG MICROSCOPES PENNYCOOK SJ; BOVEY P (VG MICROSCOPES, LTD., W SUSSEX, ENGLAND) VG MICROSCOPES ULTRAHIGH RESOLUTION SCANNING TRANSMISSION ELECTRON MICROSCOPE

1990 ORNL HEALTH AND SAFETY RESEARCH SRIVASTAVA PC/ALLRED JF IODOPHENYLMALEIMIDE RADIOIMMUNOCONJUGATOR

1990 EX/ORNL/Y12 ENGELHARD CORPORATION/EHP AND HSR (ORNL)/HSEA (Y-12) BENCKE G-BRUML W-CHAMBERLAIN J-MARTIS C-MCGRODER J-MOSCOVITCH M-SMOLKO T-SZALANCZY A-VELBECK K (ALL OF ENGELHARD CORP., HARSHAW CRYSTAL AND ELECTRONIC PRODUCTS)/AHMED AB (ORNL)/BOGARD RS (Y-12)/BUCKNER MA (ORNL)/BOGARD JS (ORNL) HARSHAW MODEL 8800 SYSTEM (TRADEMARK)

1989 ORNL HEALTH AND SAFETY RESEARCH FERRELL TL/REDDICK RC/WARMACK RJ PHOTON SCANNING TUNNELING MICROSCOPE (PSTM)

1989 ORNL/EXT METALS AND CERAMICS/U. OF TENNESSEE HOBSON DO/SIKKA VK/ALEXEFF I (U. OF TN) GASLESS METAL ATOMIZATION AND SPRAY FORMING NOZZLE

1989 ORNL SOLID STATE MOOK HA/HAYTER JB TRANSMISSION POLARIZER FOR NEUTRON BEAMS

1989

Y-12/EXT DEVELOPMENT/HARRICK SCIENTIFIC CORP., INC. POWELL GL; CAMPBELL PJ (HORTON); MILOSEVIC M AND HARRIC NJ (BOTH OF HARRICK SCIENTIFIC CORP., INC.)MHP-1 BARREL ELLIPSOID INFRARED INSPECTION ACCESSORY

1988

ORNL INSTRUMENTATION AND CONTROLS/A. G. TECHNICAL ASSOC., INC. BUTLER P-ALLEN J (CONSULTANT) OPSNET

1988

Y-12/EC DEVELOPMENT/PRODUCT CERT./COMP. & TEL./MECHAN. ENGR. (ENGR) CARPENTER DA-LAWSON RL-TAYLOR MA-HANEY GW-MORGAN KZ HRXRP-5 HIGH RESOLUTION X-RAY MICROPROBE

1987 ORNL INSTRUMENTATION AND CONTROLS MOSSMAN CA-MCNEILLY DR-JATKO WB-ANDERSON RL-MILLER GN REMOTE SENSOR AND CABLE IDENTIFIER

1987 ORNL METALS AND CERAMICS STINTON DP-CAPUTO AJ-LOWDEN RA-BESMANN TM FIBER-REINFORCED CERAMIC-COMPOSITE FABRICATION

1987

ORNL/EXT HEALTH AND SAFETY RESEARCH/UNIVERSITY OF TENNESSEE VO DINH T-SEPANIAK MJ (U. OF TN)-TROMBERG BJ (GRADUATE STUDENT, U. OF TN)-GRIFFIN GD-AMBROSE KRFIBEROPTICS FLUOROIMMUNO SENSOR (FIS)

1987

ORNL/EXT HEALTH AND SAFETY RESEARCH/U. OF TENNESSEE CHEN CH-KRAMER SD-MCCANN MP (GRADUATE STUDENT, U. OF TN) CRYSTAL LASER MONITOR

1987

Y-12 DEVELOPMENT WRENN GE, JR-HOLCOMBE CE, JR-LEWIS J JR-BERRY L ZZX-4200 HIGH-TEMPERATURE THERMAL INSULATION STRUCTURES

1986 ORNL ANALYTICAL CHEMISTRY BUCHANAN MV-WISE MB MULTI-MODE IONIZATION DETECTOR (MMID)

1986 ORNL/EXT HEALTH AND SAFETY RESEARCH/NBS/U OF TENN CALLCOTT TA-EDERER DL (NATL. BUREAU OF STANDARDS)-ARAKAWA ET-TSANG KL (U. OF TN) UT-ORNL-NBS SOFT X-RAY EMISSION SPECTROMETER

1986 ORNL/EXT METALS AND CERAMICS/INSTRU AND CONTROLS/CARNEGIE-MELLON U LAUF RJ-HOFFHEINS BS-EMERY MS-SIEGEL MW (CARNEGIE-MELLON U., PITTSBURGH) (WORK FUNDED BY CABOT CORP.) INTEGRATED GAS ANALYSIS AND SENSING (IGAS) CHIP

1985 ORNL INSTRUMENTATION AND CONTROLS DAVIDSON JB-CASE AL EIDEC (ELECTRONIC IMAGE DETECTOR FOR ELECTROPHORESIS AND CHROMATOGRAPHY) 1985 ORNL INSTRUMENTATION AND CONTROLS/ANALYTICAL CHEMISTRY TODD RA-RAMSAY RS PULSED HELIUM IONIZATION DETECTOR ELECTRONICS SYSTEM (PHIDELS)

1985 ORNL METALS AND CERAMICS LIU KC ORNL BIAXIAL HIGH-TEMPERATURE FATIGUE EXTENSOMETER

1985 ORNL METALS AND CERAMICS/CHEMICAL TECHNOLOGY LAUF RJ-BOND WD ORNL SG-2 METAL OXIDE VARISTOR

1985 ORNL SOLID STATE SALES BC-BOATNER LA LIP PROCESS FOR HIGH-LEVEL RADIOACTIVE WASTE DISPOSAL

1984 ORNL BIOLOGY ADLER HI ORNL OXYGEN REDUCING ENZYME

1984 ORNL HEALTH AND SAFETY RESEARCH CHEN CH-HURST GS-KRAMER SD-PAYNE MG-ALLMAN SL-PHILLIPS RC RARE GAS ATOMS COUNTER

1984 ORNL INSTRUMENTATION AND CONTROLS/FUEL RECYCLE SATTERLEE PE-MARTIN HL-HERNDON JN SARGENT INDUSTRIES, CENTRAL RESEARCH LABORATORIES DIV. (CRL), MODEL M-2 (CONTROL SYSTEM)

1984 ORNL SOLID STATE/INSTRUMENTATION AND CONTROLS MOOK HA-SCHULZE GK ULTRASONICALLY PULSED NEUTRON TIME-OF FLIGHT SPECTROMETER

1984 Y-12/EXT DEVELOPMENT/HARRICK SCI CORP POWELL GL-SMYRL NR-HARRICK NJ (HARRICK SCI. CORP.) THE Y-12 DIFFUSE REFLECTANCE CELL

1983 ORNL CHEMISTRY POSEY FA-PALKO AA PROCESSES FOR SILVER RECOVERY FROM PHOTOGRAPHIC AND PHOTOREPRODUCTION EFFLUENTS

1983 ORNL METALS AND CERAMICS DODD CV-CHITWOOD LD-DEEDS WE MULTIPLE-FREQUENCY EDDY-CURRENT TESTING INSTRUMENT

1983 ORNL METALS AND CERAMICS LIU CT-KOCH CC NIFE ALUMINIDE (NICKEL-IRON ALUMINIDE)

1983 ORNL METALS AND CERAMICS SPARKS CJ, JR.-ICE GE-WILLEY M X-RAY MONOCHROMATOR: HIGH-PERFORMANCE X-RAY FOCUSING OPTICS FOR SYNCHROTRON RADIATION

1983 ORNL SOLID STATE WHITE CW-NARAYAN J-APPLETON BR-HOLLAND OW SUPERSATURATED SEMICONDUCTOR ALLOYS

1983 ORNL/EXT HEALTH AND SAFETY RESEARCH/U OF GEORGIA MILLER JC-COMPTON RN-COOPER CD (U OF GEORGIA) VACUUM ULTRAVIOLET SPECTROMETER

1982 ORNL ANALYTICAL CHEMISTRY STEWART JH, JR.-KATZENBERGER JM-ROSOVSKY BL INDUCTIVELY COUPLED PLASMA SPECTROMETER

1982 ORNL INSTRUMENTATION AND CONTROLS MILLER GN-ANDERSON RL-ROGERS SC REACTOR CORE COOLING MEASUREMENT SYSTEM

1982 ORNL METALS AND CERAMICS KENNEDY CR-EATHERLY WP GRAPHNOL N3M BULK GRAPHITE PROCESS

1982 ORNL METALS AND CERAMICS SIKKA VK-MCDONALD RE-KING JF-PATRIARCA P-WARD CT-BODINE GC SUPER 9 CR-1 MO STEEL ALLOY

1982 ORNL SOLID STATE BOATNER LA-ABRAHAM MM MONAZITE PROCESS FOR STABILIZATION OF HIGH LEVEL RADIOACTIVE WASTE

1982 ORNL SOLID STATE/METALS AND CERAMICS NARAYAN J-CHEN Y-MORGAN CS-MOORHEAD AJ HIGH PERFORMANCE CERAMICS THROUGH INCLUSION OF DISPERSED METALS OR METALLIC PRECIPITATES

1981 ORNL CHEMICAL TECHNOLOGY MCDOWELL WJ-CASE GN EXTRACTIVE SCINTILLATOR SPECTROMETER ("PHOTON ELECTRON-REJECTING ALPHA LIQUID SCINTILLATION-PERALS")

1981 ORNL ENGINEERING TECHNOLOGY HISE EC-HOLMAN AS SALA HIGH-GRADIENT MAGNETIC SEPARATOR

1981 ORNL HEALTH AND SAFETY RESEARCH CALDWELL PJ-ARAKAWA ET EXTREME ULTRAVIOLET MONOCHROMATOR

1981 ORNL HEALTH AND SAFETY RESEARCH VO-DINH T PERSONAL ORGANIC COMPOUND VAPOR DOSIMETER ("PASSIVE PNA VAPOR MONITOR")

1980 ORNL CHEMICAL TECHNOLOGY SCHURESKO DD PORTABLE FLUORESCENCE SPOTTER

1980 ORNL CHEMISTRY/CHEMICAL TECHNOLOGY HURST FJ-CROUSE DJ PROCESS FOR URANIUM RECOVERY ("DEPA-TOPO PROCESSED URANIUM)

1980 ORNL/EC METALS AND CERAMICS/PLANT AND EQUIPMENT/ENGINEERING WILLEY MG-ANGELINI P-CAPUTO AJ-KIPLINGER D-SUCHOMEL RR CONTINUOUS-RING PARTICLE BLENDER DISPENSE

1980 Y-12 DEVELOPMENT SCHREYER JM-SCHMITT CR-ABBATIELLO LA PLASMASORB-HIGH-TEMPERATURE SOLAR ABSORBING COATING

1979

ORNL

METALS AND CERAMICS/CHEMICAL TECHNOLOGY LACKEY WJ-HAAS PA-SUCHOMEL RR-BEATTY RL-BEGOVICH JM-KAPPELMANN FA-STINTON DP-LOTTS AL-ANGELINI P-CAPUTO AJ-MACK JE-PASTO AE-RYON AD-NOTZ KJ-NORMAN RE-HAWS CC-LLOYD MH-SPENCE RD-LONG EL, JR-HARRINGTON FE-HORAK JA-LEUZE RE-DONNELLY RG-VAVRUSKA JS FABRICATION PROCESS FOR NUCLEAR FUEL (GEL-SPHERE-PAC-PROCESS)

1979 ORNL CHEMICAL TECHNOLOGY SCOTT CD-HANCHER CW-LEE DD TAPERED FLUIDIZED-BED BIOREACTOR

1979 ORNL METALS AND CERAMICS LIU CT-INOUYE H-SCHAFFHAUSER AC STRUCTURAL ALLOYS (DOT ALLOYS)

1979 ORNL SOLID STATE NARAYAN J-YOUNG RT-WOOD RF LOW-COST LASER-DIFFUSED SOLAR CELLS

1979 Y-12 DEVELOPMENT BURKHARDT JH-DAVENPORT CM-HENRY JJ-KITZKE KA-BRANDON GW AUTOMATED ADAPTIVE ELECTRON-BEAM WELDING BEAM/SEAM ALIGNMENT SYSTEM

1978 ORNL CHEMICAL TECHNOLOGY SCOTT CD-CANON RM-SISSON WG-SPENCE RD CONTINUOUS ANNULAR CHROMATOGRAPH (CAC)

1978 ORNL HEALTH PHYSICS GOANS RE; CANTRELL JH (CONSULTANT, U OF TN WHEN SUBMITTED; LANGLEY RES CENTER, HAMPTON VA WHEN IT WON) ULTRASONIC BURN DIAGNOSTIC UNIT

1978 Y-12/EXT DEVELOPMENT/LANL/LLNL/AIR FORCE WHITTEN LG, ET AL (Y-12); JONES FW, STEGER PHIL, ET AL (Y-12); REICHELT W (LANL); BRYAN JB (LLNL); SAITO TT, PRATER R AND PARSONS R (AF) DIAMOND MACHINING OF OPTICS

1978 Y-12 DEVELOPMENT SCHREYER JM-WHITEHEAD HD-SCHMITT CR-GOOGIN JM MICROSORB-SOLAR SELECTIVE CARBON COATING

1977 ORNL CHEMICAL TECHNOLOGY/INSTRUMENTATION AND CONTROLS SCOTT CD-MROCHEK JE-GENUNG RK-JOHNSON WF-BAUER ML-BURTIS CA-LAKOMY DG PORTABLE CENTRIFUGAL FAST ANALYZER

1977 ORNL HEALTH PHYSICS HURST GS; NAYFEH NH; YOUNG JP; PAYNE MG; AND WAGNER EB ONE-ATOM DETECTOR

1977 ORNL INSTRUMENTATION AND CONTROLS/U OF TENN BORKOWSKI CJ-BLALOCK TB JOHNSON NOISE POWER THERMOMETER (INDUSTRIAL PROTOTYPE SYSTEM, IPS-2)

1977 ORNL MAN PROGRAM BREILLATT JP-SARTORY WK-WILLIS DD-REMENYIK CJ AUTOMATED THREE-STATE CENTRIFUGAL LEUKAPHERESIS SYSTEM (CYTRIAGE)

1977 ORNL METALS AND CERAMICS HENDRICKS RW SMALL-ANGLE X-RAY SCATTERING SYSTEM (ORSAXS)

1977 Y-12 DEVELOPMENT LAGGIS EG-STROHECKER JW-FRANCKE HC NITRATE RECYCLE AND DISPOSAL PROCESS

1976 ORNL METALS AND CERAMICS/GEORGIA TECH CHAPMAN AT-CLARK GW DIRECTIONALLY SOLIDIFIED METAL OXIDE-METAL EUTECTIC COMPOSITES

1976 ORNL SOLID STATE KOBISK EH-QUINBY TC CERAMIC WIRE NEUTRON DOSIMETRY MATERIALS

1976 ORNL/Y-12 CHEMISTRY/DEVELOPMENT GRIFFITH WL-COMPERE AL-GOOGIN JM ANAEROBIC UPFLOW PACKED BED BIOREACTOR ("ACTIFIL ANFLOW SYSTEMS")

1975 ORNL SOLID STATE CHEN Y-ABRAHAM M PROCESS FOR GROWING LARGE, TOTALLY-TRANSPARENT CRYSTALS OF ALKALINE EARTH OXIDES

1971 ORNL CHEMICAL TECHNOLOGY/BIOLOGY/MAN PROGRAM SCOTT CD-ANDERSON NG-PITT WW, JR-JOHNSON WF THE ORNL ULTRAVIOLET ANALYZER

1969 ORNL/K-25 BIOLOGY/QUALITY AND TECHNICAL SERVICES ? HARRIS WW-ANDERSON NG-MASHBURN DN "GEMSAEC" AUTOMATED MULTI-SAMPLE SPECTROPHOTOMETER

1967 ORNL ANALYTICAL CHEMISTRY ROSS HH RADIOISOTOPIC LIGHT SOURCE

Federal Laboratory Consortium (National)

Historical Oak Ridge Honorees

(Awards for Excellence in Technology Transfer and other honors)

02/11/2010

2009

Philip J. Maziasz, D. Ray Johnson, Alexander G. DeTrana

ORNL - Materials Science and Technology and Partnerships Directorate/Technology Transfer

"CF8C-Plus: New Cast Stainless Steel for High-Temperature Performance"

(Also won 2008 Southeast Region FLC Award and Project of the Year)

2009

William P. Partridge, Jr., John M. Storey, Sam A. Lewis, Jae-Soon Choi and Frank Damiano

ORNL - Energy and Transportation Science and Partnerships Directorate/Technology Transfer

"SpaciMS: Spatially Resolved Capillary Inlet Mass Spectrometer"

(Also won 2008 Southeast Region FLC Honorable Mention)

2009 Mark Reeves Partnerships Directorate/Technology Transfer "FLC Representative of the Year - 2008"

2008

Parans Paranthaman, Tolga Aytug, Amit Goyal, Mark Reeves, Venkat Selvamanickam (SuperPower, Inc.), and X. Xiong (SuperPower, Inc.)

ORNL/EXT - Chemical Sciences, Materials Science and Technology, Technology Transfer, and SuperPower, Inc.

"High-Performance LaMnO3-Enabled, High-Temperature Superconducting Tape (LMOe-HTS)"

(NOTE: Also won 2007 Southeast Region FLC Award)

2006

Lapsa, Melissa; Beshears, David; Clemons, Art; Earl, Dennis; Jordan, John; Lind, Randall; Maxey, Curt; Muhs, Jeffrey; Ward, Christina; Wysor, Wes; Dickens, Larry; and Morris, John (Sunlight Direct)

ORNL/EXT - Engineering Science and Technology; National Security Directorate; Creative Media; Technology Transfer; Sunlight Direct, LLC

"Hybrid Solar Lighting"

(NOTE: Also won 2006 Southeast Region FLC Award)

2005

Gleason, Shaun; Paulus, Michael; Austin, Derek; Bobrek, Miljko; Alley, Gary; Tobin, Kenneth; McKinney, Chris and Licata, Michael (Philips)

ORNL/EXT - Engineering Science and Technology; Technology Commercialization; Philips Medical Systems

"MicroCAT (trademark): X-ray Micro-Computed Tomography for Biological Research"

(NOTE: Also won 2004 Southeast Region FLC Project of the Year Award)

2005

Greenbaum, Elias; Rodriguez, Miguel; Sanders, Charlene; Hill, David; Harrell, John; Reeves, Mark; Stouder, Richard; and McCarter, Steven

ORNL/EXT - Chemical Sciences; Life Sciences; Metals and Ceramics; Craft Resources; Technology Commercialization; Department of Defense Programs; United Defense, LP

"AquaSentinel Real-Time Water Supply Protection Monitor"

(NOTE: Also won 2004 Southeast Region FLC Award)

2005

Martin, Rodger; Gross, Ian; Pierce, Larry; Miller, Russ; Reeves, Mark; and Sandler, Manfred

ORNL/EXT - Metals and Ceramics; Nuclear Science and Technology; Craft Resources; Technology Commercialization; and Isotron

"Miniature Californium-252 Neutron Source for Cancer Therapys"

(NOTE: Also won 2004 Southeast Region FLC Honorable Mention Award)

2005

Thundat, Thomas; Brown, Gilbert; Ferrell, Thomas; Warmack, Robert; Miller, Russ; Witkowski, Charles; Harkins, Jay; Hafeman, Dean; and Dill, Kilin

ORNL/EXT - Life Sciences; Chemical Sciences; Engineering Science and Technology; Technology Commercialization; Protein Discovery, Inc.

"Photo-Molecular Comb(trademark) Biomolecular Separator"

(NOTE: Also won 2004 Southeast Region FLC Award)

2004

Dudney, Nancy J.; Bates, John B.; Neudecker, Bernd J.; Choudhury, Ashok; Luck, Chris F. and Gruzalski, Greg R.

ORNL/EXT - Condensed Matter Sciences; SNS Accelerator Systems; Subcontractor; Technology Commercialization; Physical Sciences Directorate

"Thin Film Rechargable Lithium Batteries"

(NOTE: Also won 2003 Southeast Region FLC Award)

2004

Ramsey, J. M.; Jacobson, Stephen C.; Ramsey, Roswitha S.; and Choudhury, Ashok ORNL - Chemical Sciences; Technology Commercialization

"Lab-on-a-Chip"

(NOTE: Also won 2003 Southeast Region FLC Honorable Mention Award)

2004

Smith, SF; Hanson, GR; Moore, MR; Jones, JP; Lenarduzzi, R; Emery, MS; Turner, GW; Ericson, MN.; McKnight, TE.; Hylton, JO.; Moore, JA.; Wintenberg, AL.; Dress, WB; Ewing, PD; Vanderhoofven, G---Peterson; Maxwell;Smith---Dobson; Blair; and Sullivan

ORNL/EXT - Engineering Science and Technology; Technology Commercialization; Tarallax Wireless, Inc.; Navigational Sciences, Inc.

"Robust Wireless Technologies for Extreme-Environment Communications"

(NOTE: Also won 2003 Southeast Region FLC Project of the Year Award)

2004

Thundat, George Thomas; Hu, Zhiyu; and Miller, Russ

ORNL - Life Sciences; Technology Commercialization

"Microcantilever-Based Biosensors: VeriScan (trademark) 3000 Real-Time Biodetector"

(NOTE: Also won 2003 Southeast Region FLC Award)

2004 Larry Dickens Technology Transfer and Economic Development "FLC Representative of the Year"

2003

T. M. Besmann, T. D. Burchell, J. J. Henry, Jr., and J. W. Klett (ORNL) -- and David Haack, et. al (Porvair Fuel Cell Technology) ORNL/EXT - Metals and Ceramics; Porvair Fuel Cell Technology "ORNL Carbon Composite Bipolar Plate: Lightweight Electrodes for Fuel Cells" (NOTE: Also won 2003 Southeast Region FLC Award)

2003

M. J. Doktycz and J. S. Hicks (external, affiliated w/ Engineering Division) -- and James Johnson (Innovadyne Technologies, Inc.)

ORNL/EXT - Life Sciences; Innovadyne Technologies, Inc.

"ASAP (trademark): Any Source, Any Position Fluid-Handling Device"

(NOTE: Not submitted in 2003 Southeast Region competition)

2003

R. K. Ferrell, S. S. Gleason, W. B. Jatko, T. P. Karnowski; K. W. Tobin and B. R. Whitus (ORNL) -- and Amos Dor, et. al (Applied Materials, Inc.) ORNL/EXT - Engineering Science and Technology; Applied Materials, Inc.

"Automated Image Retrieval for Semiconductor Yield Improvement"

(NOTE: Also won 2003 Southeast Region FLC Award)

2003

D. Xu, Y. Xu and V. Olman

ORNL - Life Sciences

"Expression Data Clustering Analysis and Visualization Resource (EXCAVATOR)" (NOTE: Also won Honorable Mention, 2003 Southeast Region FLC Award)

2002

Hardy, Jim; Hanson, Greg; Simpson, John; Rasmussen, Dave; Bingham, Philip; Hylton, Kathy; Tobin, Ken; Chidley, Matt; Price, Jeff; Turner, John; Goddard, Jim; Schaich, Chuck; and Baylor, Larry

ORNL - Engineering Science and Technology; Fusion Energy

"Direct-to-Digital Holography for High-Speed, High Resolution Defect Inspection" (NOTE: Also won 2001 Southeast Region FLC Award)

2001

Parens Paranthaman, Donald Kroeger, David Christen, Amit Goyal, Ron Feenstra, Fred List, Dominic Lee, David Beach, Eliot Specht, David Norton and Bob Hawsey ORNL - Chemical and Analytical Sciences Division, Metals and Ceramics Division, Solid State Division, and Energy Efficiency and Renewable Energy Program

"RABiTS: Substrate for Second-Generation Superconducting Wire"

(NOTE: Also won 2000 Southeast Region FLC Award)

2001

James Klett, Ashok Choudhury and Timothy Burchell ORNL - Metals and Ceramics, Technology Transfer and Economic Development "High Thermal Conductivity Graphite Foam" (NOTE: Also won 2000 Southeast Region FLC Award) 2001

Thomas Thundat, Robert Warmack, Charles Britton and Grady Vanderhoofven. ORNL - Life Sciences, Instrumentation and Controls, and Technology Transfer and Economic Development

"Microcantilevers: Versatile Microscopic Sensors"

2001

Vinod Sikka, Craig Blue, Barry Whitson and Madu Chatterjee. ORNL - Metals and Ceramics, Plant and Equipment External; Delphi Automotive Systems "Polymer Boot Heater to Improve Vehicle Assembly-Line Ergonomics and Production"

2000 Larry Dickens Technology Transfer and Economic Development "Commercialization Manager of the year, FLC, Southeast Region"

1999

William J. Madia (former Director, PNNL)

Laboratory Director of the Year

"For his leadership in technology transfer during his tenure at PNNL"

1998

Stephen M. Killough

ORNL - Robotics and Process Systems Division

"For technology that enables a set of wheels to drive robotic platforms in an omnidirectional manner, which was transferred to the wheelchair industry for a prototype wheelchair that can be driven omnidirectionally"

1998

Kenneth W. Tobin, Jr.; Shaun S. Gleason; and Thomas P. Karnowski ORNL - Instrumentation and Controls Division "For transferring Spatial Signature Analysis research to the semiconductor manufacturing industry"

1997

Lynn A. Boatner and Ron Feenstra ORNL - Solid State Division

"For the development and production of new single-crystal substrates for the growth of epitaxial electro-optic and superconducting thin films"

1996

Barbara S. Hoffheins and Robert J. Lauf

ORNL - Instrumentation and Controls and Metals and Ceramics Divisions

"For collaboration with the DuPont Electronics Co. in developing a new hydrogen

sensor"

1996 Ogbemi Omatete and Claudia Walls ORNL - Metals and Ceramics Division "For gelcasting process for making complex shapes"

1996 David Stinton and Roddie Judkins ORNL - Metals and Ceramics Division "For their work with 3M to improve and commercialize ORNL's patented ceramic"

1995 Timothy C. Scott ORNL - Chemical Technology "For a new solvent extraction device called the Emulsion Phase Contactor"

1995

Tuan Vo-Dinh (Health Sciences Research), M. Guven Yalcintas (formerly Office of Technology Transfer), R. Russell Miller (Office of Technology Transfer), L. Wayne Scarbrough (formerly ORNL Public Affairs), and Lou Lome (Dept. of Defense - Ballistic Missle Defense Organization)

ORNL, Lockheed Martin Energy Systems, Inc.; and Department of Defense - Health Sciences Research; Office of Technology Transfer; ORNL Public Affairs; and Ballistic Missle Defense Organization

"For a new optical data storage method known as SERODS"

1993

Don Bible and Robert J. Lauf ORNL - Instrumentation and Controls Division "For developing and licensing a variable frequency microwave furnace."

1992 Robert J. Lauf ORNL - Metals and Ceramics Division

1991

William L. Griffith, Alicia L. Compere, William P. Huxtable, John M. Googin ORNL - Chemistry Division; Technical Operations, Process Engineering Division; Y-12 Development Division

"For inventing, licensing, etc., a process to dechlorinate waste streams"

1991 George E. Courville ORNL - Energy Division "For establishment of the Roof Research Center, which has played a key role in promoting energy efficiency in the U.S. construction business"

1991 James O. Stiegler ORNL - Metals and Ceramics Division "For being the determining factor in the transfer of technologies from the Metals and Ceramics Division at ORNL to the private sector"

1990 Victor J. Tennery ORNL - Metals and Ceramics Division "For major contributions to industry by conceptualizing, starting, and managing the High Temperature Materials Laboratory User Program"

1989 James R. Weir, Jr. ORNL - Metals and Ceramics Division "For significant contributions to the development of technologies from interesting science resulting in five-nickel aluminide licenses and the development of marketplace interest in other technologies nationally and internationally"

1988 S. A. Meacham and E. C. Bradley ORNL - Fuel Recycle Division

"For development of ORNL's first agreement involving licensing of both patents and copyrights and a companion cooperative agreement (REMOTEC/DOE) leading to commercialization of Advanced ServoManupulator/Control System technology"

1987 Terry N. Tiegs and Paul F. Becher ORNL - Metals and Ceramics Division

"For transferring technology related to silicon carbide whisker-alumina composites used in high strength/toughness applications by industrial manufacturers of cutting tools"

1987

Karl W. Haff, J. Andrew Tompkins, Dan W. Ramey, and Eugene Newman ORNL - Operations Division

"For the Radioluminescent Light Development (RL) Program - developing and transferring to the public and government sectors of cost-and energy-efficient radioluminescent lights for airfield lighting systems"

1986 Tuan Vo-Dinh, Michael S. Blair, and E. Jonathan Soderstrom ORNL - Health and Safety Research Division "For noteworthy contributions toward the commercialization of the Fiberoptics Luminoscope, resulting in a licensing agreement with Environmental Systems Corporation of Knoxville, Tennessee"

1986

Vinod K. Sikka, Chain T. Liu, Anthony C. Schaffhauser, and E. Jonathan Soderstrom ORNL - Metals and Ceramics Division

"For noteworthy contributions toward the commercialization of nickel-iron aluminide alloys and, specifically, toward the achievement of a licensing agreement with Cummins Engine Company, Inc."

DISCOVER AWARDS ORNL, HISTORICAL WINNERS

06/06/2001

2000

WINNER Thomas G. Thundat, Moonis Ally, Zhiyu Hu and Panos Datskos Life Sciences, Energy, Engineering Technology "Micromechanical Land Mine Detector"

1998

FINALIST Michael L. Simpson, Instrumentation and Controls "Critters on a Chip"

FINALIST

Thomas G. Thundat, Patrick I. Oden, and Robert J. Warmack Life Sciences "Micromechanical Infrared Imager"

1997

WINNER, CHRISTOPHER COLUMBUS FOUNDATION AWARD Jonathan Woodward, Chemical Technology "Enzymatic Conversion of Sugar to Hydrogen"

FINALIST Stephen M. Killough, Robotics and Process Systems "Omnidirectional Vehicle Platform"

1996

FINALIST J. Michael Ramsey, Chemical and Analytical Sciences "The Incredible Shrinking Lab" (Laboratory on a Chip)