

10. CROSS-REFERENCE OF PROJECT INVESTIGATORS, PROJECTS, AND ORGANIZATIONS

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- 3-50 Oak Ridge National Laboratory (Fei Wang) -- Power Device Packaging <<Power Electronics & Electrical Machines Technologies>>
- 6-12 Oak Ridge National Laboratory (Felix Paulauskas) -- Advanced Oxidation & Stabilization of PAN-Based Carbon Precursor Fibers <<Materials Technologies>>
- 6-11 Oak Ridge National Laboratory (Frederick Baker) -- Low Cost Carbon Fiber from Renewable Resources <<Materials Technologies>>

- 7-36 Oak Ridge National Laboratory (Govindarajan Muralidharan) -- Materials for HCCI Engines <<Propulsion Materials>>
- 7-30 Oak Ridge National Laboratory (Govindarajan Muralidharan) -- Solder Joints of Power Electronics <<Propulsion Materials>>
- 3-11 Oak Ridge National Laboratory (Gui-Jia Su) -- A Segmented Drive Inverter Topology with a Small DC Bus Capacitor <<Power Electronics & Electrical Machines Technologies>>
- 3-7 Oak Ridge National Laboratory (Gui-Jia Su) -- Inverter Using Current Source Topology <<Power Electronics & Electrical Machines Technologies>>
- 1-6 Oak Ridge National Laboratory (Helmut E. Knee) -- Truck Duty Cycle and Performance Data Collection and Analysis Program <<Hybrid and Vehicle Systems Technologies >>
- 6-53 Oak Ridge National Laboratory (Hsin Wang) -- High-Temperature Thermoelectric Materials Characterization for Automotive Waste Heat Recovery: Success Stories from the High Temperature Materials Laboratory (HTML) User Program <<Materials Technologies>>
- 7-66 Oak Ridge National Laboratory (Hu4-Tay Lin) -- Durability of ACERT Engine Components <<Propulsion Materials>>
- 7-3 Oak Ridge National Laboratory (Huay-Tay Lin) -- Design Optimization of Piezoceramic Multilayer Actuators for Heavy Duty Diesel Engine Fuel Injectors <<Propulsion Materials>>
- 5-16 Oak Ridge National Laboratory (James Szybist) -- Non-Petroleum-Based Fuel Effects on Advanced Combustion Engine Technologies <<Fuels & Lubricants Technologies>>
- 7-48 Oak Ridge National Laboratory (Jiangang Sun) -- NDE Development for ACERT Engine Components <<Propulsion Materials>>
- 4-90 Oak Ridge National Laboratory (Jim Parks) -- Efficient Emissions Control for Multi-Mode Lean DI Engines <<Advanced Combustion Engine Technologies>>
- 4-52 Oak Ridge National Laboratory (Jim Parks) -- Emissions Control for Lean Gasoline Engines <<Advanced Combustion Engine Technologies>>
- 3-13 Oak Ridge National Laboratory (John Hsu) -- Novel Flux Coupling Machine without Permanent Magnets <<Power Electronics & Electrical Machines Technologies>>
- 4-119 Oak Ridge National Laboratory (John Storey) -- Measurement and Characterization of Unregulated Emissions from Advanced Technologies <<Advanced Combustion Engine Technologies>>
- 4-97 Oak Ridge National Laboratory (Josh Pihl) -- Advanced Engine/Aftertreatment System R&D CRADA with Navistar, Inc. <<Advanced Combustion Engine Technologies>>
- 2-175 Oak Ridge National Laboratory (Karren More) -- In-Situ Electron Microscopy of Electrical Energy Storage Technologies Materials <<Energy Storage Technologies>>
- 6-54 Oak Ridge National Laboratory (Larry Allard) -- Characterization of Catalysts for Aftertreatment and Biomass-derived Fuels: Success Stories from the High Temperature Materials Laboratory (HTML) User Program <<Materials Technologies>>
- 7-58 Oak Ridge National Laboratory (Larry Allard) -- Ultr4-High Resolution Electron Microscopy for Catalyst Characterization <<Propulsion Materials>>
- 3-9 Oak Ridge National Laboratory (Leon Tolbert) -- High-Temperature, High-Voltage Fully Integrated Gate Driver Circuit <<Power Electronics & Electrical Machines Technologies>>
- 3-48 Oak Ridge National Laboratory (Leon Tolbert) -- Novel Packaging to Reduce Stray Inductance in Power Electronics <<Power Electronics & Electrical Machines Technologies>>

- 3-54 Oak Ridge National Laboratory (Mahdu Chinthavali) -- High-Temperature Air-Cooled Traction Drive Inverter Packaging <<Power Electronics & Electrical Machines Technologies>>
- 3-18 Oak Ridge National Laboratory (Mahdu Chinthavali) -- Wide Bandgap Materials <<Power Electronics & Electrical Machines Technologies>>
- 7-40 Oak Ridge National Laboratory (Michael Kass) -- Materials-Enabled High-Efficiency Diesel Engines <<Propulsion Materials>>
- 7-19 Oak Ridge National Laboratory (Michael Lance) -- Materials Issues Associated with EGR Systems <<Propulsion Materials>>
- 6-32 Oak Ridge National Laboratory (Michael Santella) -- Fundamental study of the relationship of austenite-ferrite transformation details to austenite retention in carbon steels <<Materials Technologies>>
- 2-161 Oak Ridge National Laboratory (Nancy Dudney) -- Investigations of Cathode Architecture using Graphite Fibers <<Energy Storage Technologies>>
- 1-32 Oak Ridge National Laboratory (Paul Chambon) -- PHEV Engine Control and Energy Management Strategy <<Hybrid and Vehicle Systems Technologies >>
- 7-15 Oak Ridge National Laboratory (Peter Blau) -- Friction and Wear Enhancement of Titanium Alloy Engine Components <<Propulsion Materials>>
- 7-42 Oak Ridge National Laboratory (Peter Blau) -- Materials for High Pressure Fuel Injection Systems <<Propulsion Materials>>
- 7-44 Oak Ridge National Laboratory (Phil Maziasz) -- Materials for Advanced Engine Valve Train <<Propulsion Materials>>
- 3-4 Oak Ridge National Laboratory (Randy Wiles) -- Direct Water-Cooled Power Electronics Substrate Packaging <<Power Electronics & Electrical Machines Technologies>>
- 4-49 Oak Ridge National Laboratory (Robert Wagner) -- Achieving and Demonstrating Vehicle Technologies Engine Fuel Efficiency Milestones <<Advanced Combustion Engine Technologies>>
- 4-46 Oak Ridge National Laboratory (Robert Wagner) -- High-Efficiency Clean Combustion in Multi-Cylinder Light-Duty Diesel Engines <<Advanced Combustion Engine Technologies>>
- 1-41 Oak Ridge National Laboratory (Robert Wagner) -- Light-Duty Lean GDI Vehicle Technology Benchmark <<Hybrid and Vehicle Systems Technologies >>
- 5-14 Oak Ridge National Laboratory (Scott Sluder) -- Non-Petroleum-Based Fuels: Effects on Emissions Control Technologies <<Fuels & Lubricants Technologies>>
- 4-64 Oak Ridge National Laboratory (Stuart Daw) -- CLEERS Coordination & Joint Development of Benchmark Kinetics for LNT & SCR <<Advanced Combustion Engine Technologies>>
- 1-20 Oak Ridge National Laboratory (Stuart Daw) -- PHEV Engine and Aftertreatment Model Development <<Hybrid and Vehicle Systems Technologies >>
- 4-43 Oak Ridge National Laboratory (Stuart Daw) -- Stretch Efficiency for Combustion Engines: Exploiting New Combustion Regimes <<Advanced Combustion Engine Technologies>>
- 7-68 Oak Ridge National Laboratory (Sujit Das) -- Life Cycle Modeling of Propulsion Materials <<Propulsion Materials>>
- 6-3 Oak Ridge National Laboratory (Sujit Das) -- Technical Cost Modeling - Life Cycle Analysis Basis for Program Focus <<Materials Technologies>>
- 7-56 Oak Ridge National Laboratory (Thomas Watkins) -- Catalyst Characterization <<Propulsion Materials>>

- 7-20 Oak Ridge National Laboratory (Thomas Watkins) -- Durability of Diesel Engine Particulate Filters <<Propulsion Materials>>
- 3-44 Oak Ridge National Laboratory (Tim Burress) -- A New Class of Switched Reluctance Motors without Permanent Magnets <<Power Electronics & Electrical Machines Technologies>>
- 3-16 Oak Ridge National Laboratory (Tim Burress) -- Benchmarking of Competitive Technologies <<Power Electronics & Electrical Machines Technologies>>
- 4-95 Oak Ridge National Laboratory (Todd Toops) -- Pre-Competitive Catalysis Research: Fundamental Sulfation/Desulfation Studies of Lean NOx Traps <<Advanced Combustion Engine Technologies>>
- 4-92 Oak Ridge National Laboratory (William Partridge) -- Cummins/ORNL-FEERC CRADA: NOx Control & Measurement Technology for Heavy-Duty Diesel Engines <<Advanced Combustion Engine Technologies>>
- 6-45 Oak Ridge National Laboratory (Zhili Feng) -- Dynamic Characterization of Spot Welds for AHSS <<Materials Technologies>>
- 6-47 Oak Ridge National Laboratory (Zhili Feng) -- Online Weld Quality NDE & Control with IR Thermography <<Materials Technologies>>
- 4-79 Pacific Northwest National Laboratory (Chuck Peden) -- Degradation Mechanisms of Urea Selective Catalytic Reduction Technology <<Advanced Combustion Engine Technologies>>
- 4-76 Pacific Northwest National Laboratory (Chuck Peden) -- Enhanced High Temperature Performance of NOx Storage/Reduction (NSR) Materials <<Advanced Combustion Engine Technologies>>
- 7-5 Pacific Northwest National Laboratory (Curt Lavender) -- Fatigue Enhancements by Shock Peening <<Propulsion Materials>>
- 7-13 Pacific Northwest National Laboratory (Curt Lavender) -- Low Cost Titanium – Propulsion Applications <<Propulsion Materials>>
- 4-67 Pacific Northwest National Laboratory (Darrell Herling) -- CLEERS: Aftertreatment Modeling and Analysis <<Advanced Combustion Engine Technologies>>
- 7-9 Pacific Northwest National Laboratory (Glenn Grant) -- Tailored Materials for Advanced CIDI Engines <<Propulsion Materials>>
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- 2-119 Pacific Northwest National Laboratory (Jason Zhang) -- Development of High Energy Cathode for Li-ion Batteries <<Energy Storage Technologies>>
- 4-73 Pacific Northwest National Laboratory (Kenneth Rappe) -- Combination and Integration of DPF-SCR Aftertreatment Technologies <<Advanced Combustion Engine Technologies>>
- 6-20 Pacific Northwest National Laboratory (Mark Smith) -- Formability of Direct Cast Mg Sheet and Friction Stir and Ultrasonic Joining of Magnesium to Steel <<Materials Technologies>>
- 6-27 Pacific Northwest National Laboratory (Mark Smith) -- Pulse Pressure Forming of Materials Technologies, Development of High Strength Superplastic Al Sheet, Friction Stir Spot Welding of Advanced High Strength Steels <<Materials Technologies>>
- 1-56 Pacific Northwest National Laboratory (Michael Kinter-Meyer) -- Standards for PHEV/EV Communications Protocol <<Hybrid and Vehicle Systems Technologies >>
- 7-38 Pacific Northwest National Laboratory (Stan Pitman) -- Hydrogen Materials Compatibility for the H-ICE <<Propulsion Materials>>
- 7-28 Pacific Northwest National Laboratory (Terry Hendricks) -- Proactive Strategies for Designing Thermoelectric Materials for Power Generation <<Propulsion Materials>>

- 6-39 Pacific Northwest National Laboratory (Xin Sun) -- Coherent Research Plan for the Third Generation Advanced High Strength Steels for Automotive Applications <<Materials Technologies>>
- 6-49 Pacific Northwest National Laboratory (Xin Sun) -- Enhanced Resonance Inspection for Light Metal Castings <<Materials Technologies>>
- 3-25 Pennsylvania State University (Michael Lanagan) -- Glass Dielectrics for DC Bus Capacitors <<Power Electronics & Electrical Machines Technologies>>
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- 1-69 Ricardo (Scott Ellsworth) -- AVTA Vehicle Component Cost Model <<Hybrid and Vehicle Systems Technologies >>
- 5-8 Sandia National Laboratories (Charles Mueller) -- Fuel Effects on Advanced Combustion Engine Technologies: Optical Heavy-Duty Engine Research <<Fuels & Lubricants Technologies>>
- 4-21 Sandia National Laboratories (Joe Oefelein) -- Large Eddy Simulation (LES) Applied to LTC/Diesel/Hydrogen Engine Combustion Research <<Advanced Combustion Engine Technologies>>
- 4-13 Sandia National Laboratories (John Dec) -- HCCI and Stratified-Charge CI Engine Combustion Research <<Advanced Combustion Engine Technologies>>
- 4-16 Sandia National Laboratories (Lyle Pickett) -- Low-Temperature Diesel Combustion Cross-Cut Research <<Advanced Combustion Engine Technologies>>
- 5-12 Sandia National Laboratories (Magnus Sjoberg) -- Advanced Lean-Burn DI Spark Ignition Fuels Research <<Fuels & Lubricants Technologies>>
- 4-4 Sandia National Laboratories (Mark Musculus) -- Heavy-Duty Low-Temperature and Diesel Combustion & Heavy-Duty Combustion Modeling <<Advanced Combustion Engine Technologies>>
- 4-7 Sandia National Laboratories (Paul Miles) -- Low-Temperature Automotive Diesel Combustion <<Advanced Combustion Engine Technologies>>
- 2-92 Sandia National Laboratories (Peter Roth) -- Abuse Tolerance Improvement <<Energy Storage Technologies>>
- 4-24 Sandia National Laboratories (Peter Van Blarigan) -- Free-Piston Engine <<Advanced Combustion Engine Technologies>>
- 4-99 Sandia National Laboratories (Richard Larson) -- Development of Chemical Kinetic Models for Lean NOx Traps <<Advanced Combustion Engine Technologies>>
- 4-19 Sandia National Laboratories (Richard Steeper) -- Automotive HCCI Engine Research <<Advanced Combustion Engine Technologies>>
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