2016 R&D 100 Awards & Technology Conference
Recognizing Excellence, Inspiring Innovation
54 Years of Invention
November 3-4, 2016 • Gaylord National Resort & Convention Center • Oxon Hill, Maryland (Washington, DC)

2015 R&D 100 Award Winners

Analytical/Test

Product	Developer
3D Cell Exploreer	Nanolive SA
Agilent 5100 ICP-OES	Agilent Technologies
Antero/Shavano Neutron Spectrometer	U2D Inc, Semiconductor Materials and Radiological Technologies (SMART) Laboratory, University of Missouri Kansas City, University of Missouri Columbia, Office of Naval Research and the Defense Threat Reduction Agency
Continuous Active-Source Seismic Monitoring (CASSM)	Lawrence Berkeley National Laboratory
EVARREST® Fibrin Sealant Patch	Ethicon
ionKey/MS System	Waters Corporation
Local Electrode Atom Probe Microscope - LEAP 5000 Product Line	CAMECA Instruments Inc.
M908	908 Devices
Mitra Microsampling Device	Neoteryx
Nexera UC Unified Chromatography System	Shimadzu
Novum Simplified Liquid Extraction (SLE)	Phenomenex
Pressurized magic angle spinning technology for nuclear magnetic resonance (NMR) spectroscopy	Pacific Northwest National Laboratory
Progency ResQ	Rigaku Raman Technologies
QCL Laboratory Series QCL Driver	Wavelength Electronics Inc.
Simplicon™ RNA Reprogramming Technology	EMD Millipore Corporation
Single-cell pipette (SCP)	Houston Methodist Research Institute
SL 1000 Portable Parallel Analyzer	Hach Company
SPIN (Subambient pressure ionization with nanoelectrospray) Source	Pacific Northwest National Laboratory and Ardara Technologies LP
SpyGlass™ DS Direct Visualization System	Boston Scientific Corporation
Thermo Scientific™ Gemini™ analyzer	Thermo Fisher Scientific
VGA-100	VUV Analytics and The Market Element

IT/Electrical

Product	Developer

2016 Awards Submissions Open!

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2015 Winners

See 2015 R&D 100 Award Winners

2015 Photos, Plaques & Logos

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First Name

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6.5kV Enhancement-Model Silicon Carbide JFET Switch	United Silicon Carbide Inc, Sandia National Laboratories and the U.S. Dept. of Energy, Office of Electricity Delivery and Energy Reliability, Energy Storage Program
aFCL	Brookhaven National Laboratory
Binary Pseudo-Random Calibration Tool	Argonne National Laboratory, Brookhaven National Laboratory, Lawrence Berkeley National Laboratory and Abeam Technologies Inc.
ChIMES: Chemical Identification by Magneto-Elastic Sensing	Y-12 National Security Complex
CORE-Direct (Collectives Offload Resource Engine)	Oak Ridge National Laboratory
Higher Sensitivity Tactile-film System for Wearable Orthosis (HSTS)	Industrial Technology Research Institute
Highly reliable, superior economic switch for HVDC system	Mitsubishi Electric Corporation
High-Power Intelligent Laser Diode-System (HILADS)	Lawrence Livermore National Laboratory and LaserTel Inc.
IBIS™ Photoconductive Semiconductor Switch	UES Inc.
IC ID	Sandia National Laboratories
LED Pulser	Sandia National Laboratories
MilPak™	Ascent Solar Technologies Inc.
MINI Z® Handheld Z Backscatter® Screening System	American Science and Engineering Inc.
Model DD110M Hybrid Neutron Generator	Adelphi Technology Inc.
PCOLED (Plasmon-coupled Organic Light-Emitting Diode)	Industrial Technology Research Institute
Polymide Aerogel-Based Antenna	NASA Glenn Research Center
Qualcomm® WiPower™	Qualcomm Technologies Inc.
RANGER: Localization System Using a Ground-Facing Camera	Southwest Research Institute
Ryft ONE	Ryft
SpeechVive	SpeechVive Inc.
Swept Distributed Sensing System	Insight Photonic Solutions Inc.
TE 25G Active Optics Featuring Coolbit Optical Engines	TE Connectivity
TrueNorth: IBM Neurosynaptic System	IBM
Truly Radiation-Hardened Fiber Light Sources	National Applied Research Laboratories
Uneo Stylus Sensor	Uneo Inc.

Mechanical/Materials

Product	Developer
3-D Polymer Matrix Composite	Fiber Materials Inc.
ACRYSOL™ Rheology Modifiers	Dow Coating Materials
Argonne's Versatile Hard Carbon Microspheres Made from Plastic Waste	Argonne National Laboratory and Purdue University
CO2 Memzyme	Sandia National Laboratories and Univ. of New Mexico
Cyanobacterial bioethylene	

	National Renewable Energy Laboratory
DOW ENDURANCE™ HFDC 4202	Dow Performance Plastics
Energy transmitting and storing cables	University of Central Florida
Extended Pressure Inductive Coupled Plasma-synthesized Boron Nitride Nanotubes (EPIC BNNTs)	Lawrence Berkeley National Laboratory
Fluid-Driven Emergency Lighting	Industrial Technology Research Institute
Ford F150 aluminum intensive vehicle and BETAMATE™ 6160 structural adhesive joining technology	The Dow Chemical Company and Ford Motor Company
Greyrock 300 dGTL	Greyrock Energy
HARMONIC ACE® +7 Shears with Advanced Hemostasis	Ethicon
High-capacity anode for rechargeable batteries	Lawrence Berkeley National Laboratory and Zeptor Corporation
Hyperform® HPN 210M	Milliken & Company
Light weight free of particle generation metal composite automotive brakes	MER Corporation
Milliguard™ AOX-1	Milliken & Company
Multifunctional Superhydrophobic Transparent Glass Coating	Oak Ridge National Laboratory and United Protective Technologies
Novel Polyethylene Stand-Up Pouch	Dow Performance Plastics
PacXpert™ Packaging Technology	Dow Performance Plastics and Smart Bottle
PolyE membrane technology	Industrial Technology Research Institute
Porous Graphene Desalination Membrane	Oak Ridge National Laboratory
Sensor Integrated with Recombinant and Engineered Nanophage (SIREN) platform	Lawrence Berkeley National Laboratory
SOLDERON™ BP TS 6000 Tin-Silver Chemistry	Dow Electronic Materials
Thermal Radical Cure™ Adhesive	Dow Corning Corporation and Delphi Automotive
Toyota Fuel Cell System	Toyota Motor Corporation

Process/Prototyping

Product	Developer
AFS® 40E/80E/120E and 150E Water Purification Systems	EMD Millipore Corporation
BAAM-CI (Big Area Additive Manufacturing - Cincinnati Incorporated)	Cincinnati Incorporated and Oak Ridge National Laboratory
Hydrothermal Processing (HTP) to Convert Wet Biomass into Biofuels	Pacific Northwest National Laboratory and Genifuel Corporation
KM-CDR Process	Southern Company
Large-Area Projection Micro-Stereolithography (LAPμSL)	Lawrence Livermore National Laboratory
NanoFrazor	SwissLitho AG
Smarter Cotton® which includes Green Cotton™, DuraGard™, NuGard® and DiamondGard™	Carbtex Technology Inc.
ThermoTrace TTI Time-Temperature Indicator Label	DeltaTrak Inc.

Software/Services

Product	Developer
BIOVIA Capture	BIOVIA Dassault Systemes (previously Accelrys)
Cased Pipeline Corrosion Model (CAPCOM®)	Southwest Research Institute

CHAMPION: Columnar Hierarchical Auto-associative Memory Processing in Ontological Networks	Pacific Northwest National Laboratory
Compendium	Valtronic
eSie Valves	Siemens Corporation, Corporate Technology and Siemens Corporation, Healthcare Clinical Products, Ultrasound
EYESIM v2.3 Immersive Real-Time Virtual Reality Software for Improving Energy Plant Operations and Safety	National Energy Technology Laboratory, Schneider Electric and West Virginia University
GENOA 3D printing Software	Alpha STAR Corporation and Oak Ridge National Labortory
Hyperion: Automated Behavior Computation for Compiled Software	Oak Ridge National Laboratory
Lightweight Distributed Metric Service (LDMS) v2.2	Sandia National Laboratories
MeshWorks™	California Eastern Laboratories
MSC Apex (Engineering Simulation Software)	MSC Software
Muse Invent	Certara
Nengo 2.0	Applied Brain Research Inc.
OpenMSI	Lawrence Berkeley National Laboratory
Platform for Architecture-Neutral Dynamic Analysis (PANDA)	MIT Lincoln Laboratory
Power Model Integrator: A system for more accurate energy forecasts	Pacific Northwest National Laboratory
Self-Defense Distributed Engagement Coordinator (SDDEC)	MIT Lincoln Laboratory
SHMTools: Structural Health Monitoring Software for Aerospace, Civil and Mechanical Infrastructure	Los Alamos National Laboratory
V2G-Sim (Vehicle-to-Grid Simulator)	Lawrence Berkeley National Laboratory
Video Content Summarization Tool (VCST)	MIT Lincoln Laboratory
Zero-RK	Lawrence Livermore National Laboratory

2015 R&D 100 Special Recognition Awards

Green Tech Special Recognition Award

Gold Award: CO2 Memzyme by Sandia National Laboratories and the University of New Mexico
Silver Award: Dow UF PURINZE and Its Application in Eco Washing Machine by Dow Water and Process Solution
Bronze Award: High Efficient and Reliable Ocean Wave Energy Harvester by Virginia Polytechnic Institute and State University

Corporate Social Responsibility Special Recognition Award

Gold Award: KM-CDR Process by Southern Company and Mitsubishi Heavy Industries
Silver Award: Echo-Screen III Hearing Screener by Natus Medical Inc.

Market Disruptor Services Special Recognition Award

Gold Award: ELUTE Fiber by TissueGen Inc.
Silver Award: Infrared Nanodestructive Wield Examination System by Oak Ridge National Laboratory

Market Disruptor Product

Gold Award: HeliAct Muscles by Lintec and the University of Texas at Dallas
Silver Award: Solaris Open Air Fluorescence Imaging System by PerkinElmer
Bronze Award: Airyscan by Carl Zeiss Microscopy

R&D Magazine Editor's Choice

Analytical/Test Category Editor's Choice Award - Thermo Fisher Scientific's Thermo Scientific Gemni analyzer
IT/Electrical Category Editor's Choice Award - IBM's TrueNorth neurosynaptic chip