

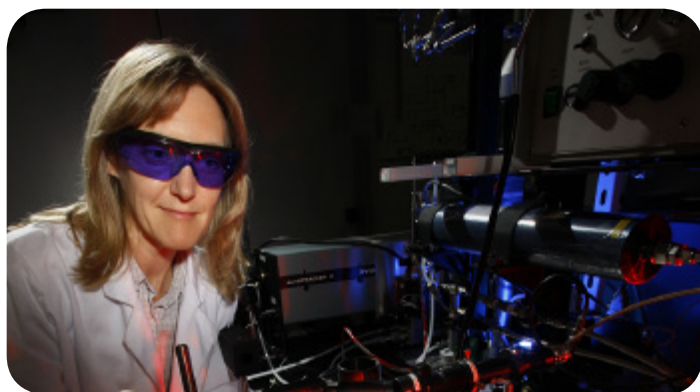
Exceptional service in the national interest



Partnerships

POST

January 2013



Welcome to the Inaugural Edition

This is the first issue of the *Partnerships Post* e-Newsletter. It will be distributed electronically every other month to keep you informed and involved in the latest partnership and licensing opportunities at Sandia National Laboratories.

The newsletter will provide advanced announcements, success stories, and tips on doing business with the Labs through licensing, partnership agreements, and economic development programs. To share your thoughts and feedback on this newsletter, contact Linda von Boetticher at 505.844.9462 or lvonboe@sandia.gov.

Licensing Opportunities

Low Cost TiO₂ Nanoparticles

Sandia has developed an elegant and economically advantageous method to synthesize titanium dioxide nanoparticles. The synthesis requires only three inexpensive and commercially available reagents. The nanoparticles are synthesized at room temperature and ambient pressure in less than 24 hours. The nanoparticles produced are 5 nanometers in size with a narrow size distribution. They are discrete (non-aggregated) and stable in solution. In addition, these particles can be surface-functionalized to suit a wide variety of needs.

This technology may find use in anti-reflective coatings, catalysis, solar cells, and light emitting diodes. To learn more about this featured technology, visit <https://ip.sandia.gov/technology.do/techID=101>. For information on other exciting technologies available for licensing, visit <https://ip.sandia.gov>.

New Mexico Small Business Assistance (NMSBA)

NMSBA is currently accepting applications for 2013 on the website at <http://www.nmsbaprogram.org>. Assistance is provided in the form of lab staff hours valued at up to \$20,000 per calendar year for New Mexico businesses located in rural counties and \$10,000 for businesses located in an urban county (Bernalillo County). In addition, there will be a call for proposals in early February for leveraged projects. Leveraged projects allow several qualifying businesses to join together for joint technical projects worth up to \$100,000 in assistance.

NMSBA offers free, technical assistance to for-profit, New Mexico small businesses via lab staff at Sandia and Los Alamos national laboratories. For questions, or to get on the mailing list for the leveraged proposal call, contact Genaro Montoya at 505.284.0625 or gmontoy@sandia.gov.

Sandia Science & Technology Park (SS&TP)

Internationally recognized, master-planned, and strategically located, the SS&TP is home to companies, scientists, and engineers involved in advancing new technologies. Adjacent to the multibillion-dollar engineering and science facilities of Sandia and the Air Force Research Laboratory, SS&TP's mature companies and startups collaborate with these top laboratories on a broad assortment of technologies, products, and services. For information about available land and space, visit <http://www.sstp.org/available-space>. For questions contact Elizabeth Kistin Keller at 505.844.1017 or ejkisti@sandia.gov.

Livermore Valley Open Campus (LVOC)

Combustion Research Facility (CRF)

As a U.S. Department of Energy (DOE) Office of Science collaborative research facility, a key aspect of the Combustion Research Facility's mission is to encourage the direct involvement of individuals, or "collaborators," from the scientific community. The CRF also works with industrial partners on both precompetitive projects that are shared with the community and on proprietary projects that are wholly owned by the sponsor. Precompetitive projects typically involve

cost sharing between DOE and industry; while proprietary projects are fully funded by the industrial sponsor. For example, the CRF has been working closely with U.S. engine manufacturers for more than 30 years to increase scientific understanding of internal combustion engine processes affecting efficiency and emissions. For more information on LVOC, visit <http://www.sandia.gov/lvoc> and CRF, visit <http://crf.sandia.gov>.

User Facility

The Center for Integrated Nanotechnologies (CINT)

CINT is a DOE Office of Basic Energy Sciences nanoscale science research center operated as a national user facility by Sandia and Los Alamos National Laboratory. Through its Core Facility in Albuquerque and Gateway Facility in Los Alamos, CINT provides access to the capabilities and scientific expertise of its scientists, post-doctoral fellows and technical support personnel.

Together, CINT users and staff are establishing the scientific principles that govern the design, predict the performance, and enable the integration of nanostructured materials into the micro and macro worlds. Access is via peer-reviewed technical proposals, for independent or collaborative research, submitted in response to semi-annual Calls for User Proposals. For more information visit <http://www.cint.lanl.gov>.

Recognition

Federal Laboratory Consortium (FLC)

Sandia has been selected by the FLC as a winner of the 2013 Award for Excellence in Technology Transfer for the Removal of Radioactive Cesium from Seawater Using Crystalline Silico-Titanates (CSTs). Patented CST technology, licensed from Sandia by UOP, a Honeywell Company, is being used for cleanup of radiation-contaminated water at the Fukushima Daiichi nuclear power plant in Japan.

This award recognizes employees of FLC member laboratories and non-laboratory staff who have accomplished outstanding work in the process of transferring a technology developed by a federal laboratory to the commercial marketplace. FLC is the nationwide network of federal laboratories that provides the forum to develop strategies and opportunities for linking laboratory mission technologies and expertise with the marketplace.

Success Story

Musicode Innovations

Dan Daily, Director of Musicode Innovations, is developing a musical instrument, the Midiwing, for those who lack the experience, physical ability, or maturity to play music with traditional instruments.

Midiwing unites music and computer technology. To create the instrument, Daily reworked and recoded Musical Instrument Digital Interface (MIDI) technology and introduced ergonomic design. He applied for NMSBA help when he discovered the microcontroller he used was being phased out. The controller supports the interface with the musician by transmitting the data from the user to the audio instrument.

NMSBA matched Daily with Sandia's Kent Pfeifer, an electrical engineer and musician himself. Daily sent Pfeifer his old microcontroller code and the desired criteria and function for the instrument. Together, the two rewrote the code, modernized the interface to use USB communication, refined the microcontroller for high-speed and low-power battery operation, and essentially created a new state-of-the-art design. The new Midiwing is slated to go into production at the end of 2013.

Calendar

Feb 26 - 3rd Annual Entrepreneurial Spirit Awards Luncheon

Get the e-Newsletter

To subscribe to the *Partnerships Post*, simply click on the link to fill out your request at <http://www.sstp.org/partnerships>.

To learn more about partnership opportunities with Sandia National Laboratories, please contact us at partnerships@sandia.gov, 505.284.2001, or <http://www.sandia.gov/partnerships>.

