



FLC NEWS LINK

Federal Laboratory Consortium for Technology Transfer
The Only Government-wide Forum for Technology Transfer

T² Events

American Association for
the Advancement of Science
Annual Meeting and Expo
Denver, Colo.
Feb. 13-17, 2003

Technology Transfer
Conference & Expo
March 3-6, 2003
Chicago, Ill.

Society of
Automotive Engineers
World Conference 2003
March 3-6, 2003
Detroit, Mich.

65th UCLA Technical
Management Program
Los Angeles, Calif.
March 23-28, 2003

FLC National Meeting
May 5-9, 2003
Tucson, Ariz.

BIO 2003
Annual Convention
Washington, D.C.
June 22-25, 2003

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<www.federallabs.org>
for a complete
Calendar of Events

Saddle Up for the FLC National Meeting

On May 5, 2003, the frontier of technology will meet the desert of Tucson, Arizona, when the FLC hosts its national meeting, which has as its theme *"The FLC, Adding Value to the T² Frontier."*

"This year's event will focus on promoting and providing value to the field of technology transfer," said Program Committee Chair **Norma Cammarata**. The annual event includes the prestigious FLC technology transfer (T²) awards



ceremony, T² training, T² marketing, as well as panels of T² experts.

Education and Training Committee Chair **Lynn Murray** has coordinated a full slate of programs offering attendees everything from fundamentals training to advanced training to topic-specific sessions.

Awards Chair **Vic Chavez** predicts that this year's awards ceremony will be the best yet. The event showcases the outstanding
See Meeting, page 6



The FLC national meeting rewards and honors the outstanding achievements of scientists and T² professionals working to transfer their technologies and capabilities from the laboratory to the marketplace.

U.S., Japan Technology Team Expands Cooperation

A program developed to enhance the transfer of research and capabilities between the U.S. and Japan continues to foster technological progress.

Formed in 1990, the JAPAN-US Science, Technology, and Space Applications Program (JUSTSAP) is a unique collaboration between the U.S. and Japan to promote and facilitate cooperative studies, research and development in space systems and related applications.

The initiative sprang from a collaborative effort among **Dr. Burton I. Edelson**, then at **Johns Hopkins University**, **Professor Jun Nishimura**, then Director-General of the **Institute of Space and Astronautical Sciences of Japan**, and **Takaji Kuroda**, Corporate Chief Engineer of **NEC Corporation**.

The group sought the collaboration to

benefit the space programs of both countries while conversely enhancing science, technology, and economics in the Pacific region and the world.

The association meets annually, usually in Hawaii, and supports

high data rate (Ka-band) satellite link between mainland U.S. and Japan. It has prepared a series of microgravity experiments for launch aboard the U.S. space shuttle.

It created JUSTSAP STARS, a mentoring program for high school and college students that provides access to scientists and resources, as well as supports student-designed space experiments.

JUSTSAP coordinates its activities and initiatives with government agencies—in particular, **NASA** and the Japanese space agencies, **NASDA** and **ISAS**.

The group continues to expand current interests while branching out into new areas such as oceanography, volcanology, telemedicine, space solar power,
See US/Japan, page 4



ongoing projects in satellite communications, disaster management, microgravity research, small satellite development, and other cutting-edge R&D areas.

JUSTSAP's influence and interests are vast and can be felt in many ways. The program coordinated the first trans-Pacific

Technology Locator

by **Sam Samuelian**
FLC Technology Locator

An essential element of the FLC's user response network, the Technology Locator serves as an information clearinghouse within the FLC network for accessing federal research and development laboratories and centers. This service matches a user's technical requests for expertise and facilities with the appropriate federal laboratory capabilities.

The Technology Locator's primary function is that of a technology broker, which means linking potential users from industry, small business, local governments, or universities with federal laboratory personnel having
See Technology Locator, page 4

Lab in the Limelight TAPPING THE ROCKIES

by **Jana Smith and Doug Tunison**

The **Rocky Mountain Oilfield Testing Center (RMOTC)** offers a diverse range of services to industry, government, and academia.

Since its inception in 1994, RMOTC has successfully completed more than 127 projects totaling \$23.9 million.

Originally established by the **Department of Energy (DOE)** as a testing alternative for the petroleum

industry, RMOTC now offers a wide range of services to industries with testing and evaluation needs, providing a neutral testing environment in which risk is shared.



Working with RMOTC, Pumping Solutions Incorporated, of Albuquerque, N. Mex., is currently field testing a new type of submersible pump on the Teapot Dome field.

The center resides within the Naval Petroleum Reserve No. 3 (NPR-3),
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Fed Labs Flash

Technology Transfer Notes from Within the Federal Laboratory Community

PNNL Expands Blood Serum Library

In a significant scientific advance, researchers at the **DOE's Pacific Northwest National Laboratory (PNNL)** have identified or confirmed 490 proteins in human blood serum — nearly doubling the number of known serum proteins, according to a paper accepted for publication in the December issue of *Molecular and Cellular Proteomics*.

"We have performed the most extensive identification of proteins in serum to date," said **Joel Pounds**, corresponding author and a PNNL staff scientist. "We studied blood serum because it holds clues to all the major processes in our bodies. We need to know what proteins exist in that serum to know how they might be used to predict disease susceptibility, monitor disease progression or diagnose disease."



Using liquid chromatography and mass spectrometry instrumentation, Pacific Northwest National Laboratory scientists identified and characterized nearly twice as many proteins in blood serum than previously noted.

A Good Fellow

Dr. William M. Roquemore, a senior research scientist for the **Air Force Research Laboratory's (AFRL) Propulsion Directorate**, was named an American Society of Mechanical Engineers (ASME) Fellow for 2002.

The honor recognizes Dr. Roquemore's significant achievements and contributions to

the engineering profession as senior research scientist in the field of air-breathing combustion, diagnostics and fuels technologies, said **Dr. Sivaram Gogineni**, Dayton's ASME honors and awards chairman. Dr. Roquemore, who holds bachelor's, master's, and doctorate in physics and has nearly 40 years of research to his credit, also is a Wright Laboratory Fellow (1989), Air Force Research Laboratory Fellow (1991), and an American Institute of Aeronautics Fellow (1999).



Dr. William Roquemore examines a jet diffusion flame with a laser sheet lighting technique invented by his team at AFRL's Propulsion Directorate.

Engineer Corps Signs CRADA

A new CRADA was recently signed between the **U.S. Army Corps of Engineers' Engineer Research and Development Center's (ERDC) Topographic Engineering Center (TEC)** of Alexandria, Va., and **Flight Landata, Inc.**, of Lawrence, Mass. The CRADA will provide advances in spectral imaging for both military and civilian applications.

Flight Landata, Inc. is a high-technology small business specializing in remote sensing. The firm has more than 7 years of corporate experience providing thematic data acquisition services and innovative hyperspectral/

multispectral airborne imaging systems for government and industrial customers.

The company supports remote sensing applications in 2/2/2 agriculture, forestry, environmental study, GIS, mapping, defense, scientific research, and light and heavy industry, as well as a multitude of other terrestrial and oceanographic science applications.

The overall goal of the CRADA is to develop a hardware/software combination that can be incorporated into the commercial system for Flight Landata, Inc. to market.

A critical element in experiment design for both partners is that the imagery have dual-use applications.

EPA Announces New Strategy

Montana State University TechLink has announced that a vast cache of satellite imagery along the Lewis and Clark trail will become available to the public for the first time through a new partnership between **NASA** and **GCS**



Research, a geospatial information technology company in Missoula, Mont.

GCS Research is a client of

TechLink, which worked with technology transfer managers at the **NASA Stennis Space Center's Earth Science Applications Directorate** to forge this historic partnership.

"We realized that this comprehensive data set that we are creating has great value to educators and researchers across many disciplines," said **Dr. Marco Giardino**, NASA's Project Director.

Lab Work

Reducing Dependence through Collaboration



Oak Ridge National Laboratory (ORNL) of Oakridge, Tenn., and **USEC Inc.**, a global energy company headquartered in Bethesda, Md., have signed an agreement worth \$121 million to develop and demonstrate a highly efficient uranium enrichment technology that could greatly reduce U.S. dependence on foreign energy sources.

The CRADA with USEC, a supplier of enriched uranium fuel for commercial nuclear power plants, is the largest ever for ORNL. The agreement extends through 2007 and will be funded entirely by USEC. Lab officials note, however, that the significance of the agreement extends beyond the funding.

"This represents a commitment to a proven technology that was developed by the Department of Energy over more than two decades," said **Gil Gilliland**, ORNL associate director for Energy and Engineering Sciences. "This also represents a commitment to support the growth of nuclear energy, a clean power source that is not dependent on foreign suppliers."

USEC employees and technical personnel from ORNL will work to deploy USEC's lead cascade test facility, which will showcase improvements to DOE's proven centrifuge technology. The gas centrifuge process produces a uranium stream concentrated in uranium-235, a radioisotope suitable for making fuel for nuclear power plants.

Over the next few years, ORNL will receive \$28.5 million for specific design, testing and analysis work. By 2005, USEC plans to be operating a commercial-sized module of hundreds of next-generation gas centrifuge uranium enrichment machines.

According to Gilliland, the USEC/ORNL gas centrifuge uranium enrichment machines boast efficiencies four to six times better than those possible with competing technologies.

USEC will announce later this year a location in either Kentucky or Ohio for this test facility. The commercial plant would provide about 500 jobs when construction is complete. Construction is expected to create several hundred jobs as well.

"USEC's deployment of U.S. centrifuge technology will meet future worldwide demand for nuclear fuel, ensure domestic energy security, better serve customers, and ensure USEC's long-term competitive position," said Dennis Spurgeon, USEC executive vice president and chief operation officer.



Gil Gilliland

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Tech Watch

Federal Laboratory Technologies Ready for Transfer

Communications Right There, Right Now

A surgeon in New York who wants the immediate opinion of a specialist in Los Angeles probably would send medical magnetic resonance imaging (MRI) files as e-mail attachments or make them accessible in Internet drop zones. Unfortunately for patients on operating tables, extremely large files may take a half-hour to transmit and require a very large computer — perhaps not available — to form images from the complicated data.

Additionally, each rotation of the image for better viewing can take minutes to appear.

Now, interactive remote-visualization hardware that allows doctors to view and manipulate images based on very large data sets as though standing in the same room has been developed at **Sandia National Laboratories (SNL)**.

The tool also will work for engineers, military generals, oil exploration teams, or anyone with a need to interact with computer-generated images from remote locations.

"The niche for this product is when the data set you're trying to visualize is so large you can't move it, and yet you want to be collaborative, to share it without sending copies to separate locations," said SNL team leader **Lyndon Pierson**.

The SNL hardware, for which a patent has

been applied, allows the data to be kept at the main location but sends images to locations ready to receive them. The interactivity then available is similar to two people operating a game board.



CYBERSPACE DOOR — *Lyndon Pierson (left) and Perry Robertson of Sandia National Laboratories examine their group's video encoder and decoder.*

network pipe that carries less than 0.5 gigabits per second.

"While compression is not hard, it's hard to do fast. And it has to be interactive, which streaming video typically is not," said Pierson.

A successful demonstration took place in late October between Chicago and the Amsterdam Technology Center in the Netherlands. A second demonstration occurred between SNL locations in Albuquerque and Livermore and the show floor of the Supercomputing 2002 convention in Baltimore in November.

More info: Neal Singer, nsinger@sandia.gov

The lag time between action and visible result is less than 0.1 second, even though the remote computer is thousands of miles away and the data sets are huge.

"We expect our method will interest oil companies, universities, the military — anywhere people have huge quantities of visualization data to transmit and be jointly studied," said Pierson. "Significant commercial interest (in the new device) has been demonstrated by multiple companies."

The patented hardware squeezes the video data flooding in at nearly 2.5 gigabits a second into a

Agricultural Cracking the Salmonella Case



Researchers from the **USDA's Agricultural Research Service (ARS)** have developed a rapid method for extracting water- and oil-soluble compounds from a biological sample using liquid carboxylic acids, providing a concentrated sample.

This method is particularly suitable for extracting proteins such as salmonella antigens or immunoglobulins, bacteria such as *Salmonella enteritidis* (SE), or virus from whole eggs, egg yolk, or egg albumin of poultry. For example, SE is a bacterium that can be inside or on the shell of perfectly normal-appearing eggs. If the eggs are eaten raw or undercooked, the bacterium can cause illness.



Salmonella can be detected using this two-step method of extraction.

Potential commercial users include poultry breeders, egg producers, diagnostic and vaccine companies, as well as the animal health industry.

Foreign rights are available.

More info: Tara Weaver-Missick, USDA, ARS Office of Technology Transfer, 301-504-6965, twm@ars.usda.gov

ARS's new method for extracting biological samples detects harmful bacteria before they can do harm.

Proven to Work

Discovery May Fight Heart, Bone Disease & Assist Drug Design

John K. Bielicki of **Lawrence Berkeley National Laboratory (LBNL)** has discovered the mechanism by which apolipoproteinA-IMilano, a rare variant of wild-type apolipoprotein(apo)A-I, confers resistance to cardiovascular disease (CVD). He has succeeded in isolating a minimum sequence of apoA-IMilano that retains the newly discovered antioxidant activity of the full-length protein.

Bielicki has created therapeutic peptide mimetics that replicate the natural apolipoprotein mutation.

Additional peptides also based on the monomeric form of apoA-IMilano have been created to display both the newly discovered antioxidant characteristics of apoA-IMilano and the native apoA-I CVD-resistant properties. This potent combination is not present in pharmaceuticals now in use. One series of peptides is ready for animal testing.

Using the LBNL discoveries, researchers can add or remove unique activities from the parent compound for tailor-made therapeutics. Engineered peptides could also be used as powerful biological tools to unravel the

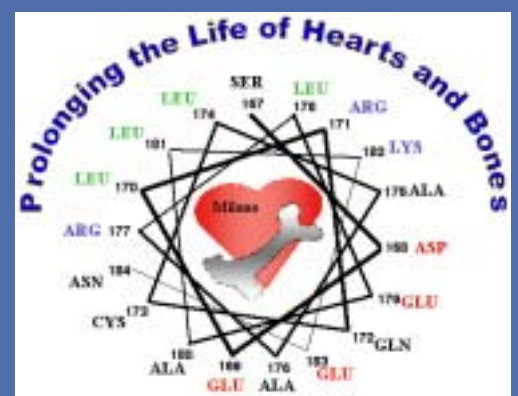
complex etiology of inflammatory-related diseases.

Bielicki has observed beneficial interactions with water-soluble antioxidants, indicating that the newly created peptides may be used in combination with other therapeutic agents to provide a high degree of protection from atherogenic events.

Because the antioxidant activity of the peptides is conferred upon lipidation, it is likely that the therapeutics will be concentrated in metabolically active sites linked to the expression of the newly described ABCA1 transporter that mediates HDL assembly.

This effectively targets the peptides to sites of cholesterol deposition allowing them to fight inflammation associated with the onset of atherosclerosis and osteoporosis. In addition, they hold promise for preventing ischemia following by-pass surgery and after myocardial infarction. Studies using the full-length apoA-IMilano variant suggest they may also be useful antithrombotic agents.

Because of their minimal size, these peptides overcome drug delivery problems usually encountered with full-length protein sequences. Being derived from naturally occurring



Applications for this new discovery include:

- Combating cardiovascular disease
- Fighting atherosclerosis and osteoporosis
- Drug design
- Creating biological tools to study inflammatory related disease

proteins, they do not elicit an immune response and are likely to be exceptionally safe. They can be prepared with standard chemical synthesis.

This U.S. patent pending technology is available for licensing.

More info: LBNL Technology Transfer Department, TTD@lbl.gov

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and fuel cells.

It also strives to address old problems with new solutions. In one of its key areas, disaster management, JUSTSAP is working to identify new information systems that will predict and communicate disasters so teams can respond and world resources can be put into action without delay.

In order to locate these technologies and resources, the group is interested in forming liaisons with other federal laboratories within the FLC.

More info: Jim Crisafulli, Research & Development Coordinator, Energy, Resources & Technology Division, DBEDT/ State of Hawaii, 808-586-2388, jcrisafu@dbedt.hawaii.gov

Lab in the Limelight from page 1

often referred to as Teapot Dome, near Casper, Wyo. Teapot Dome produces petroleum from 600 wells in nine geological formations.

Access to equipment and a highly experienced workforce provide the state-of-the-art testing environment necessary for testing the design and performance of a new technology in an operating oil field environment.

RMOTC assumes the risk of damage to wells or facilities during a test, and the partner assumes the risk of damage to

equipment or tools tested. A private sector or university may partner with RMOTC through a Cooperative Research and Development Agreement (CRADA).

The CRADA allows RMOTC to provide in-kind services and supplies to the field test project as defined in the Joint Work Statement. Testing at RMOTC may also be accomplished through a "work for others" agreement wherein the client funds 100% of the project cost. Work with other government agencies can be accomplished either directly through memorandum or indirectly through the private sector partner.

Who Tests at RMOTC?

RMOTC partners include service companies and equipment manufacturers who test new ideas



Workers run casing into the well after a ProDril test. ProDril Services, Inc. injects steel shot into drilling mud to increase the penetration rate of the drill bit through rock. The process will reduce the time and cost required to drill deep, hard rock formations.

and products leading to increased recovery or reduced operating costs. Independent oil producers leverage technologies tested at RMOTC by evaluating new recovery processes before application. Inventors test, evaluate, demonstrate, and transfer new technologies to the oil and gas industry.

Environmental companies explore ways to prevent and manage environmental risks. National laboratories and government organizations field test theoretical laboratory assumptions in a real-

world setting, and universities teaching theory in the classroom demonstrate real-life applications in the field.

Who Benefits from the RMOTC Program?

The RMOTC program supports the goals of the National Energy Policy.

Each and every project contributes in some way to the nation's energy security, economic growth, or technical

leadership. Technologies tested at RMOTC are found in applications worldwide, and partners endorse RMOTC as a valued testing partner.

The Interstate Oil & Gas Compact Commission, the Independent Petroleum

Is Your Lab Part of the Federal Gallery?

Technology Transfer Conference & Expo

invites federal labs to showcase their technologies as part of the **National Design Engineering Show**.
A 20% discount for federal labs... but a deadline looms, so don't wait!

McCormick Place
Chicago, Ill., March 3-6, 2003
Contact Mike Driscoll at:
MDriscoll@reedexpo.com

Association of America, the National Stripper Well Association, and the Rocky Mountain Oil & Gas Association support the unique capabilities offered by RMOTC to industry, government, and academia.

Available Capabilities

- Oil & gas reduction (artificial lift, operations, enhanced oil recovery)
- Drilling (oil & gas, geothermal, mining)
- Renewable energy (geothermal, solar, wind)
- Flow assurance
- Bioremediation
- Beneficial use of produced water (wetlands)
- Geology, petrophysics.

What Does the Future Hold for RMOTC?

RMOTC envisions a state-of-the-art testing and demonstration center that builds on existing capabilities and serves a wider range of clients.

The center plans to offer new and more specialized services designed exclusively for its clients. Near-term expansion will include testing services for new technologies in the following areas: coal bed methane, produced water management, CO₂ flooding, and carbon sequestration.

Knowing its services contribute to the successful application of new technologies in the global marketplace, the center wants to make those services available to you. At RMOTC, the focus is on being flexible and responsive to partners. The center also stresses the value of its policy to share risk and make the test as cost-effective as possible. If you need a reputable and reliable testing center in the future, RMOTC may be your next call. They will design a plan exclusively for you and your testing needs.

For a list of partners and project descriptions, visit RMOTC's web site at <www.rmotc.com> or contact **Sandy Andrew** at 307-261-5000.

Technology Locator from page 1

In cooperation with the federal laboratories and the private sector, Technology Locator Sam Samuelian helps potential collaborators take advantage of the vast reservoir of technology and expertise located in federal laboratories.

special expertise or capabilities in the user's area of interest. The Technology Locator specifically identifies laboratories that have the technical resources to respond to specific requests for information.

The FLC's unique networking structure and its person-to-person technical linkages are vital factors in its ability to respond directly and rapidly to these requests.

Once a linkage has been identified, arrangements for the actual technical exchange are between the user and the laboratory. This exchange can take the form of readily available material, technical advice, or collaborative research.

One mechanism for accomplishing this is a detailed request form.

Another is for the Technology Locator to actively assist users in drafting their technical requests.

The Technology Locator request form can be accessed through the FLC web site at hand <www.federallabs.org> or by contacting **Sam**

Samuelian of the Management Support Office at 856-667-7727.

When using the web site, click on the Technology Locator icon in the upper right-corner of the home page and select the request form.

Through this link, the requester can get information regarding the use of the form and descriptions of each field on the form.

Upon receipt of the form, the Technology Locator will contact the requester with any questions and immediately initiate the search for a laboratory matching the request. When a suitable laboratory is identified, the requester's contact information and the request will be forwarded to the laboratory for review. If the technology request is found to be within the scope of the laboratory's mission, the laboratory will contact the requester to further discuss the potential for collaboration. **FLC**

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Position to remain vacant
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Federal Technology Transfer Legislation & Policy



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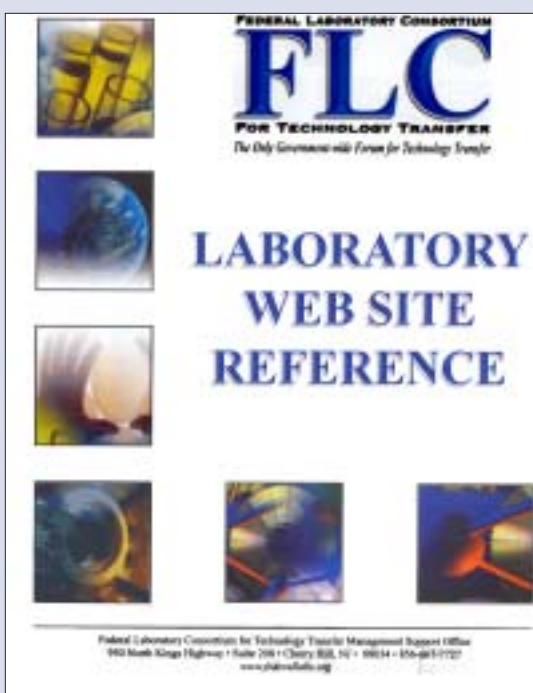


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- Grant & SBIR Info
- Calendar of Events
- Commercialization Assistance

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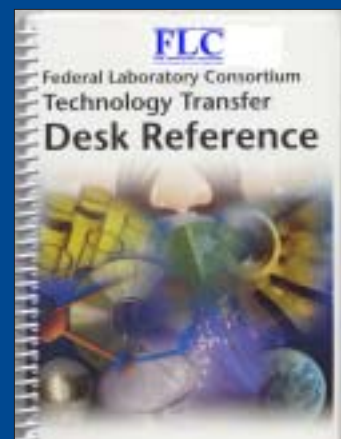


The FLC Laboratory Web Site Reference

*This lightweight, quick
reference directory of
federal laboratory web
sites brings you to the
front door of science
and technology*

**Contact the FLC MSO to reserve your copy
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T² Procedures T² Legislation T² History T² Mechanisms The FLC's Role in T²



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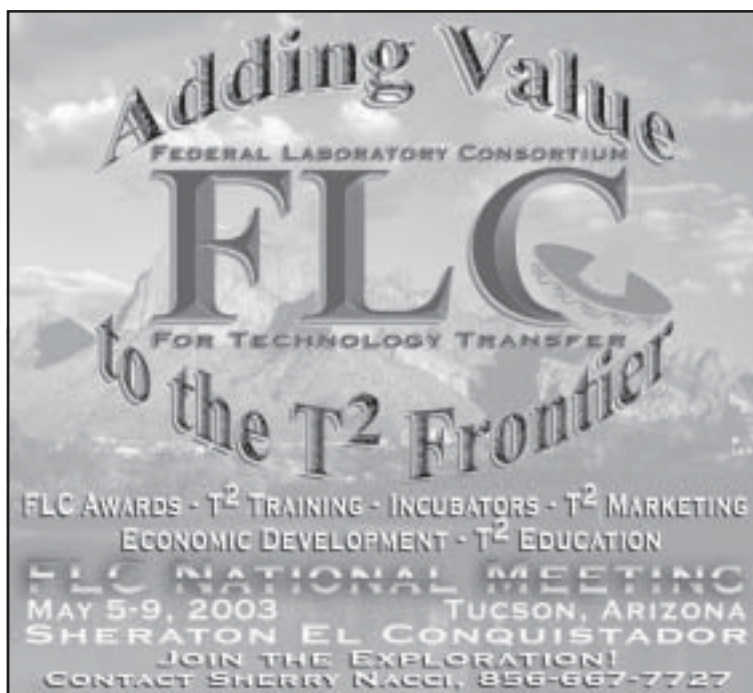
ETC...

Meeting from page 1

achievements of scientists and T² professionals who worked to transfer their capabilities and technologies to the marketplace. The ceremony will include the presentation of the *FLC Excellence in Technology Transfer Awards*, the *FLC Service Awards*, and the *FLC Laboratory Director of the Year Award*.

The meeting agenda also includes a multimedia presentation by Marketing Chair **Al Jordan**. This interactive session will break down T² marketing tools, as well as provide attendees with methods for using the FLC to promote T² activity and awareness.

Continuing the theme of *Adding Value*, Member-at-Large **Pat Rodriguez**



has lined up a team of experts, *The Successful Scientists Panel*, to discuss best practices and lessons learned.

Other can't-miss agenda items include a session by **Doug Blair** of the Air Force Research Laboratory on *Quality Net, Improving Quality Standards and Operating Efficiency in T²*; the *Lab Directors Panel*; the *Award Winners' Showcase*; and FBI Agent **Tom Liffiton's** session, *Federal Laboratories at Risk via Cyber Crime*.

Tucson's El Conquistador Hotel will host the five-day event from May 5-9, 2003.

More info: <www.federallabs.org> or contact **Sherry Nacci** of the FLC Management Support Office at 856-667-7727 or snacci@utrsmail.com

2003 FLC Award Nominees

Laboratory Director of the Year

Thomas Barton
Ames Laboratory

Alan Janiszewski
Air Force Research Laboratory/Propulsion Directorate

Arthur Stephenson
George C. Marshall Space Flight Center (NASA)

James Zarzycki
Edgewood Chemical Biological Center

FLC Service Awards

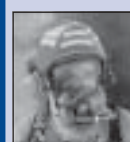
Harold Metcalf Award
Dr. Michael Sullivan, Naval Air Warfare Center Weapons Division

Representative of the Year Award
Dr. J. Scott Deiter, Naval Surface Warfare Center Indian Head
Lynn Murray, Volpe Center (Department of Transportation)

Outstanding Service Award
Joan Miller, NTTC
A. David Spevack, Office of Naval Research

Today at

www.federallabs.org



NIST Fighting Fire

Check out how the *National Institute of Standards & Technology* provides early warning of building collapse and mixes up a new thirst quencher for fire.



Lab in the Limelight

Find out who the *National Park Service* calls in to save history.



DC Dispatch

D.C. Representative **Dave Appler** tackles three capital issues: the U.S. Patent and Trade Office, base realignment's impact on federal R&D, and homeland security.



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