The Only Government-wide Forum for Technology Transfer

J. Susan Sprake
FLC Vice Chair

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The FLC is a vast network of over 700 federal laboratories across the United States.

<table>
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<th>The Only Government-wide Forum for Technology Transfer</th>
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<td>Innovation technology for companies can be found in the federal laboratories</td>
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<td>Cutting edge research is done in these laboratories.</td>
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| NASA, Department of Energy, National Institute of Health, Department of Agriculture, Department of Transportation, Department of Defense, etc... |
The FLC was formally chartered by the Federal Technology Transfer Act of 1986 to promote and strengthen technology transfer nationwide.

Funded each year from a portion of federal R&D appropriations.

The Only Government-wide Forum for Technology Transfer
The FLC Structure

- Chair
- Vice Chair
- Regional Coordinators (6)
- Laboratory Representatives
- National Advisors (Industry and Gov.)
- Washington DC rep

The Only Government-wide Forum for Technology Transfer

Executive Board (23 members)
Promoting the Technology and Technology Transfer Tools

Internet Web Site
Awards
Education and Training
Locator Service
Publications
Conferences
Committees

- Education and Training
- Communications and Publications
- Awards
- State & Local Government
- Policy & Planning
- Program
The FLC is committed to providing technology transfer professionals, researchers, and members of industry with the tools and services needed to further professional development.
**Federal Technology Transfer Legislation and Policy**

- Provides the principal statutory and presidential executive order policies that constitute the framework of the federal technology transfer program.
- It is also intended to help those outside the government acquire a fundamental understanding of the legal framework for technology transfer.

“*The Green Book,*”
The Desk Reference includes:

- technology transfer overview, including technology transfer procedures, history, strategies, organizations, and mechanisms;
- the role of the FLC in technology transfer;
- Cooperative Research and Development Agreements (CRADAs); and intellectual property issues.
Intermediate Classes

Use of different Mechanisms to transfer technology*

Exchange of Best Practices

Challenges & Problems discussion.

Review of new technologies for commercialization potential

Marketing research

Marketing the technology
*Technology Transfer Mechanisms*

- Patent License Agreement
- Cooperative Research and Development Agreement (CRADA)
- Work for Others – Work for Private Parties
- Collegial exchange
- Educational Partnership Agreement
- Use of Facilities Agreement
- Commercial Test Agreement
- Material Transfer Agreement
- Partnership Intermediary Agreement
- Commercial Service Agreement
- Personnel Exchange

Examples are on the Web Site
Advanced Classes

- Intellectual Property Assessment
- Advanced Licensing Negotiations
- Different types of Licenses
- Differences between industry expectation and Federal laboratory requirements.
- Alliance Building Workshops / Partnerships*
Some of the most notable relationships between federal laboratories and industry are their “Partnerships.”
What would a baby diaper manufacturer have in common with a Federal lab?

- Proctor & Gamble asked around for help with its diaper production line. They were sent to one of the world’s most preeminent laboratories, Los Alamos National Laboratory.

- PowerFactoRE – predict, prevent and reduce reliability losses, equipment failures, and time of repairs.
Proctor & Gamble
Los Alamos National Laboratory

- $1 billion dollars in operating cost – saved!

Los Alamos Technology:
Invented Here, Tested Here... Transferred to Industry
New Technologies

- Conducting Polymers
- The world of NANO
- Second sight
- Communications
- Batteries
- Sensors
Conducting Polymers

- Build artificial muscles

- Carbon Composite Implants
  Light weight / very strong – bond with tissue
The world of NANO

- Repair Molecules
  - Nano – fibers
  - technologies
    (bio & non-bio)
  - Bone replacement
The goal is to develop a micro-electronic device that consists of a multiple artificial retinal chip set and implant it in the eye to allow patients to see images.
INFICOMM,* Two-Way Communication by reflecting Radio Waves

*For “Infinite Communication”*

- Totally passive technology useful for...
  - Safety—person locator - emergency needs

- Advantages of INFICOMM
  - No batteries required!
  - 3-mile radius for single antenna
Hydrogen Fuel Cell

- Fuel Cells that power mobility units
- Scooters.
- Other Battery technology
New Technologies - Sensors

- Telemedicine
- Sensors
  - Smart skin sensors
- Home diagnostics
  - DNA dipstick - Flu
- Bio-Sensors
  - Bacterial
  - TB
  - Toxins
  - Tumors
Intellectual property can be a real delicate issue for some companies.

The FLC has subject matter experts that can help an entity understand how Intellectual Property can be protected as they consider and enter into a federal technology transfer partnership.
COMMUNICATIONS & PUBLICATIONS

- **FLC NewsLink** — Monthly newsletter
- Technology Calendar
- Technology Locator — potential partners find federal resources
- **Technology Transfer 2006** — Focused Technologies & Partnerships
- Educational Materials
- Exhibits — Major trade shows and conferences
- Media Support — Publications, brochures, etc.

Web site: www.federallabs.org
Technology Transfer
Publications

Excellence in Technology Transfer
Awards, 2006

Federal Technology Transfer
Success Stories, 2006
The Only Government-wide Forum for Technology Transfer

Technology Locator Service

The FLC helps to find the right lab with the right technology for specific requirements.

Industry has a point-of-contact to find new and relevant technology.
The FLC Technology Locator publishes directories that focus on special needs such as automotive materials, medical technologies, energy technologies, or computational achievements.
The FLC will send an industry or university technology challenge or problem to the Federal Laboratories or to a single laboratory with unique specialties.

Using the Internet to find Innovation technologies as found in the federal laboratories.
The FLC Locator service is staffed by individuals who are very knowledgeable about the different attributes of the various laboratories.

Innovation technology for a company can be found in the federal laboratories.
In summary

Internet Web Site

Awards

Education and Training

Locator Service

Publications

Conferences
J. Susan Sprake
FLC Vice-Chair
New Business Executive
Los Alamos National Laboratory
(505) 665-3613
sprake@lanl.gov

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FLC Web Page
http://www.federallabs.org