



**BOOSTING AMERICAN PROSPERITY
THROUGH FEDERAL INNOVATIONS**

Today, other countries are challenging American leadership in the training of skilled workers, investments in research and development, and support of entrepreneurship. America must expand its ability to move science and technology breakthroughs into the marketplace. Federal labs play an important role in this effort, and we are working now to ensure that all research agencies make their “lab to market” efforts a top priority.

– **Thomas Kalil** and **Nicholas Maynard**, White House OSTP blog, October 28, 2011

Photo credit: National Security Technologies, LLC

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This year marked another milestone in government technology transfer with the inclusion of the “Lab-to-Market” initiative in the President’s Management Agenda and as a Cross-Agency Priority Goal supporting our nation’s economic growth. The Federal Laboratory Consortium for Technology Transfer (FLC) plays a key role in making this goal a reality as the goal aligns closely with the work the FLC has so successfully accomplished over past years. With the call for government agencies and laboratories to fuel economic growth through federal technology innovations that create new industries,

job opportunities, and products that strengthen our nation’s position in the global marketplace, the FLC has been recognized as a leader in enabling and supporting the technology transfer mission at its member laboratories. The FLC takes great pride in adding value to the government-wide implementation of processes that can leverage and shape federal research and development (R&D) to help domestic businesses better compete in the global marketplace. The benefits of these technology transfer initiatives, in addition to offering an innovative return on R&D investments funded by American taxpayers, include economic growth and positive societal impact for our nation. Because 2013 was the initial year for the 5-year federal technology transfer initiative designed by the President in his Presidential Memorandum, *Accelerating Technology Transfer and Commercialization of Federal Research in Support of High-Growth Businesses*, to increase the delivery of federal R&D to the marketplace, the FLC has adopted this theme for our Annual Report to the President and Congress.

Since its formal creation, as enacted in the Federal Technology Transfer Act of 1986, the FLC has remained among the foremost champions for technology transfer and the vital impact it has on our economy. While 2013 presented many challenges to federal R&D budgets, the FLC remained steadfast in its mission to provide exceptional technology transfer education and training, networking forums, recognition, and top-quality resource tools to its members and the diverse communities they serve. The FLC remains committed to maintaining a cohesive national network of federal laboratories where its people can come together and share ideas for accelerating the commercialization of technologies from our national investment in R&D.

Through its various committees, regional coordinators and supportive members, the FLC’s efforts continue to deliver impressive results implementing its congressionally mandated mission of facilitating federal laboratory technology transfer. The efforts and dedication of our members in working to see their laboratories’ scientific and technological achievements used in commercial applications is inspiring. These results are demonstrated through studies like the Midwest Region’s technology-based economic development (TBED) study conducted by the Indiana Business Research Center (IBRC). This study, undertaken to improve laboratory technology commercialization marketing strategies, would not have been possible without FLC member support.



An important component of the FLC’s mission is to provide value-added services that provide unique cross-laboratory capabilities. We rose to this challenge over the past year by assisting laboratories and industry looking for technologies ready for transfer by increasing participation in, and reengineering, our Available Technologies Search Tool. The FLC also used this year to build on its web-based service offerings by developing FLCBusiness—a new, all-inclusive, business resource tool that will leverage federal resources and support our nation’s technology transfer process. The FLCBusiness database, which you will learn more about in this report, provides businesses with newly compiled, easily accessible information about how to utilize federal laboratory facilities and equipment, technologies, funding, and specific programs. The relaunch of the Available Technologies Search Tool and the ongoing development of FLCBusiness provided unique, interactive, web-based tools that were deployed rapidly, successfully, and at a low overall cost.

In addition to the deployment of our new service tools, the FLC continued to celebrate and recognize laboratory accomplishments and technology transfer successes in areas such as R&D commercialization and collaborative partnerships. The technology transfer process takes a great deal of time, patience, and dedication. However, the mission is important, and success is a critical part of our national innovation policy. For those reasons, the FLC aims to remain a valuable resource for its members at a time when technology transfer has become more important than ever to keep our nation competitive in the global economy.

On behalf of the members of the FLC, I am pleased to present, in accordance with 15 U.S.C. § 3710(e)(6), the FLC 2013 Annual Report to the President and Congress.

Respectfully,

Paul Zielinski
FLC Chair



Over the past few years, the efforts to retool our nation's economy to be more competitive in the global marketplace have kicked into high gear with direction coming straight from the White House. President Obama's 2011 Memorandum, entitled "Accelerating Technology Transfer and Commercialization of Federal Research in Support of High-Growth Businesses," tasked all government departments and agencies to support this effort by promoting the transfer of federal technologies from laboratories to the marketplace. By increasing access to the nation's scientific and technological resources, our federal laboratories bolster rapid innovation among American businesses and, more specifically, aid small businesses and startups—with the purpose of revitalizing our economy.

In 2013, the Office of Science and Technology Policy [OSTP] released a set of lab-to-market initiatives and set out down a path of bringing the Administration's call to action into fruition. The Federal Laboratory Consortium for Technology Transfer is strategically aligned and positioned to support these initiatives. Recognizing the criticality and timelessness of these initiatives, the FLC aligned itself with the Obama Administration's lab-to-market initiatives, and has used 2013 as a starting point for strengthening its congressionally mandated responsibilities to facilitate the transfer of federal laboratories' scientific R&D in order to stimulate the mainstream economy.

While 2013 was marked as an implementation year for government agencies to establish goals, metrics and progress for improving upon the returns and commercialization of federal R&D investments, the year was not without setbacks. Agency-wide budget cuts, sequestration, and a government shutdown that lasted from October 1 through 16, 2013, forced innovative advancements and technology commercialization processes to be placed on hold.

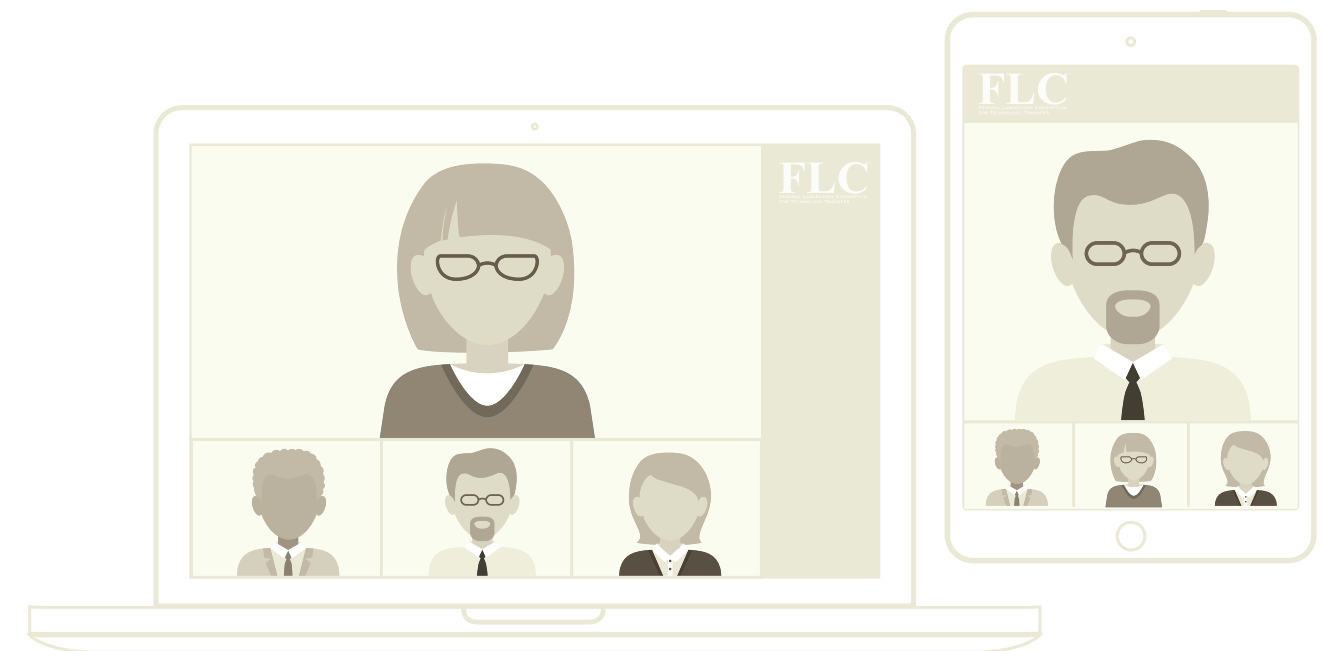
Despite these constraints, however, the FLC was able to provide valuable support to its diverse network of members and achieve its mission goals through committee and regional efforts, as well as develop an array of support services to both members and newcomers to technology transfer.

2013—A Year to Accelerate Innovation

The start of fiscal year 2013 (FY13) signaled for all federal agencies, organizations, and the FLC to strengthen their existing efforts in accelerating federal technology transfer. The urgency of producing a return on taxpayers' investments has now become more important than ever in the government's aim to retool our nation's economy.

Standing as a unified network, the FLC was quick to offer its support and resources to aid the campaign to put our economy back in the restorative black. To meet its goals this year, the FLC achieved the following:

- Offered an online learning center (in the absence of the annual onsite national meeting) that equipped members with educational technology transfer webinars.
- Introduced virtual and live-streaming capabilities at FLC meetings.
- Revamped education and training resources to include e-learning courses.
- Created and developed the FLCBusiness Resource Center—a comprehensive, online, searchable database of information about the federal laboratories and available technologies.
- Developed plans for a new FLC national website to be launched in FY15.





Cross-Agency Tools and Services

Through its mandated mission to assist with accelerating federal technologies from laboratories to the marketplace, the FLC is able to showcase all of the cutting-edge scientific and technological R&D that our nation has to offer. With FLC-provided services such as the Available Technologies Search Tool and the Technology Locator, our nation's resources are quickly becoming viable solutions for small businesses and startups to take advantage of for their production progress and our economic benefit. With budget cuts taking place government-wide over the past year, these tools are vital to the support of our country's economic health and will be consistently updated to keep current with the influx of new agency information as it becomes available through data.gov.

Available Technologies Search Tool

The Available Technologies Search Tool enables FLC website users to search for federal technologies that are ready for licensing. The Available Technologies Search Tool was built to leverage Google's search algorithm and scan more than 20,000 available federal laboratory technologies by crawling the websites of 10 agencies and nearly 350 labs.

By providing a search engine that aggregates listings throughout the federal laboratory system, the Available Technologies Search Tool makes it easier than ever to quickly search government and laboratory websites and records. All users have to do is click on a result, which links them directly to a laboratory or agency listing and the following pertinent information to facilitate the T2 process:

- Description of the invention
- Technology applications and benefits
- Current development and patent status
- Name of inventor
- Contact information of the technology transfer professional at the lab.

The Available Technologies Search Tool page has been utilized more than 13,000 times, increasing user visits by approximately one-third since FY12 due to additional outreach efforts. The FLC is in planning to develop a next generation Available Technologies Search Tool which will leverage data from laboratories as it is made available through the Open Data Initiative in concert of the continuing lab-to-market cross-agency priority goals.



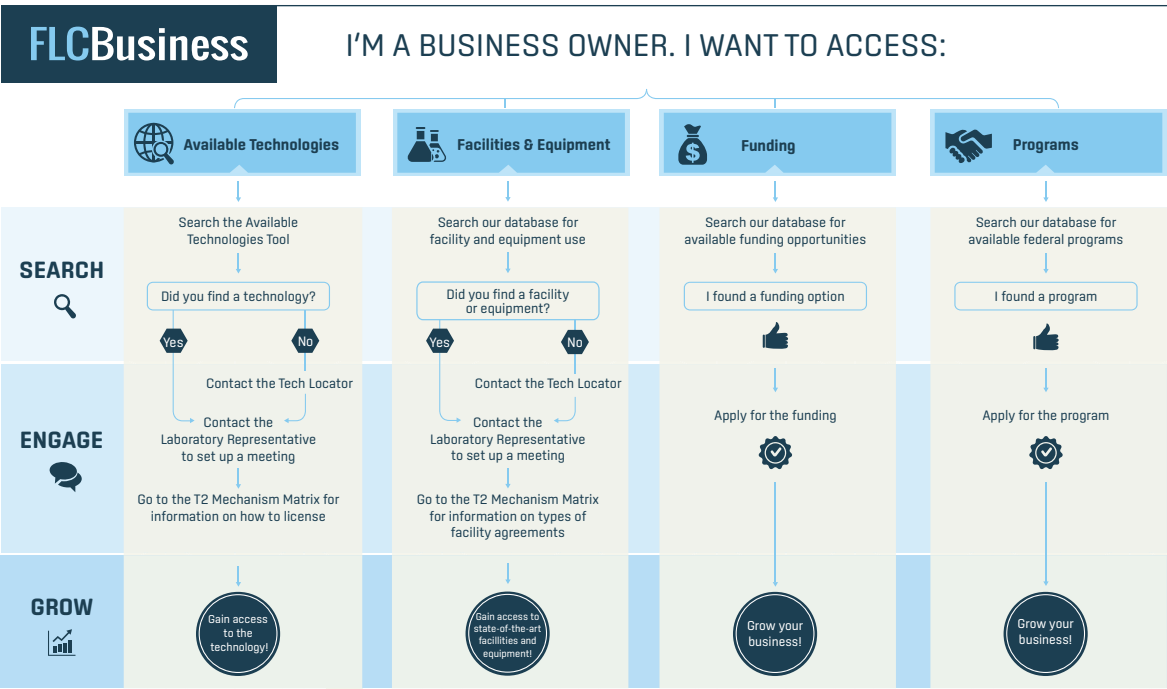
FLCBusiness

FY13 also saw the creation and development of FLCBusiness—the FLC's latest business resource tool and probably its most significant undertaking since the relaunch of the Available Technologies Search Tool. FLCBusiness, the first comprehensive database of all that the federal laboratories offer, includes:

- Search capabilities of all laboratories, including marketing materials uploaded to its site
- A complete web application that provides laboratories with the ability to update and maintain all of their facility information
- Full descriptions of laboratory, facilities and equipment, and research programs and funding opportunities in a one-stop shopping format.

FLCBusiness was created in response to the Administration's push for federal laboratories, their facilities, and their resources to be more accessible to industry, agencies, and academia to aid in business development. While the product is still in its beta, or external testing and configuration phase, the FLCBusiness database is being groomed to provide the ultimate leveraging of federal resources. In collaboration with the Government's Open Data Initiatives, the FLC is working to improve the FLCBusiness database by probing and importing the most up-to-date laboratory technology, facility, and funding and program information as soon as it is made accessible.

The following FLCBusiness roadmap gives a detailed look at how anyone can easily search, engage, and grow their business or technology using the FLCBusiness database.





The Technology Locator

In addition to the Available Technologies Search Tool, the Technology Locator offers immediate, personalized search assistance and referrals that connect industry and technology seekers with federal laboratory expertise and technologies.

Acting as a matchmaker for those looking to start a business, improve their product, or find help solving a problem, the Technology Locator uses the FLC's diverse network of Laboratory Representatives and knowledge base of the federal laboratory system to put technology seekers in contact with a laboratory that can provide the expertise and capabilities that best respond to each specific request. Upon distributing a request to a laboratory or facility, the Technology Locator staff follows up on whether or not a deal or progress has been made between the Laboratory Representative and the requestor.

Thanks to the Technology Locator service, some of the most important technological developments produced in federal laboratories have been transferred out of laboratories and into the marketplace. Vaccine developments like Merck & Company's Gardasil™, a lifesaving vaccine developed to prevent human papillomavirus (HPV) infection, would not have reached its market potential without the original technology development that originated from HPV research conducted at the National Institutes of Health's (NIH) National Cancer Institute, or introductions and follow-up from dedicated Technology Locator staff.

In FY13, the Technology Locator service received nearly 200 requests for federal laboratory assistance. Requests that reached technology transfer success ranged from scientific areas such as software development to testing services for therapeutic research from laboratory facilities, as well as analytical equipment-intensive laboratory migration testing, among others.

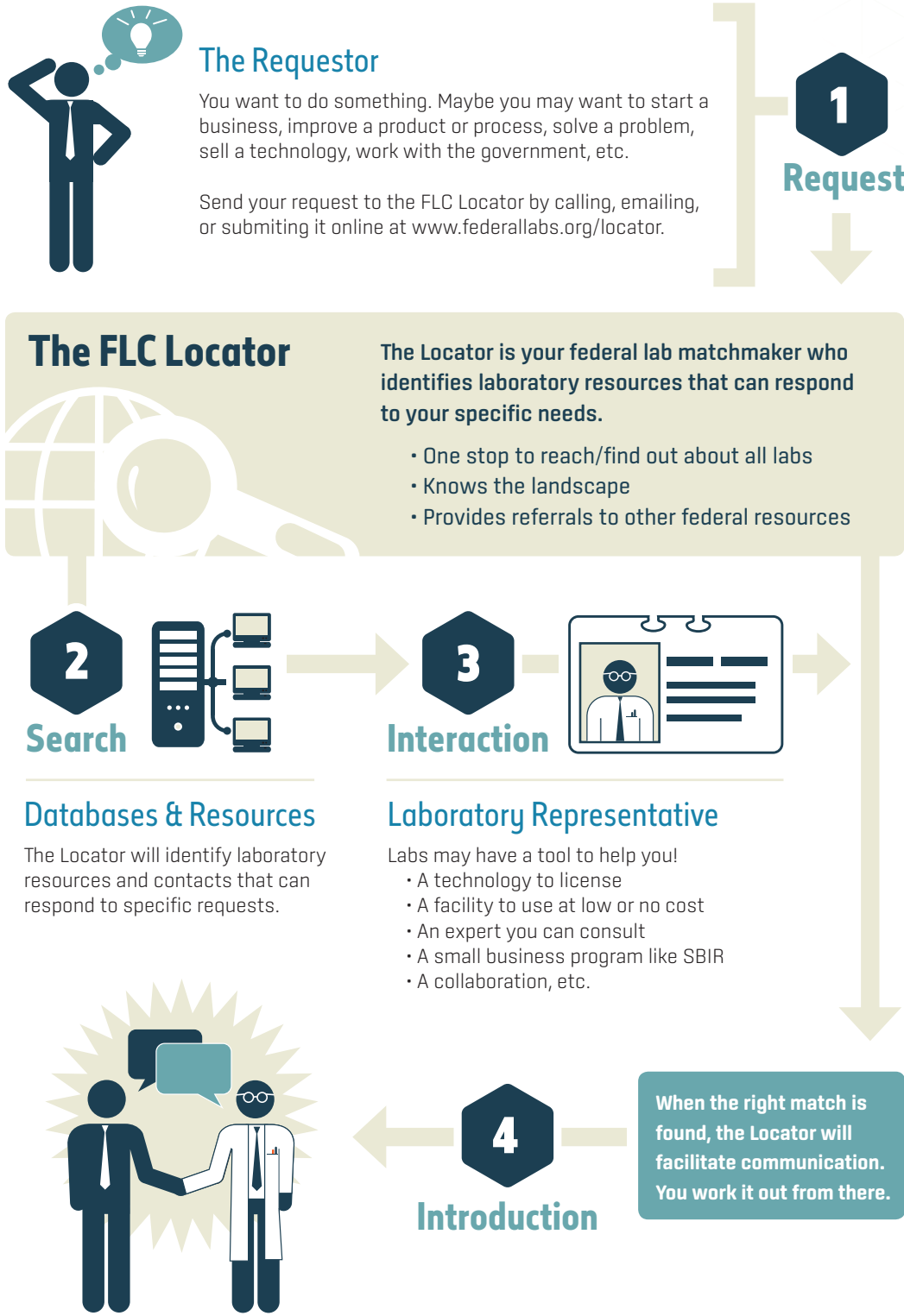


Developed by Merck & Company, key elements of the technology for Gardasil™ originated from the HPV research in the laboratory of Drs. Douglas Lowry and John Schiller of the National Cancer Institute of the National Institutes of Health.

Photo credit: Merck & Company



How Does the Technology Locator Service Work?





Offering Knowledge and Resources

For many scientists and federal laboratory employees, the process of commercializing a technology that they have spent months, even years, developing can seem as painstaking as the research hours needed to bring that innovative idea to fruition. Luckily, one of the FLC’s primary functions is to provide the highest quality education and training to its diverse network of members so their goal of one day seeing their technologies in the marketplace can easily be achieved. Through the FLC’s various online, multimedia and print publications, thousands of technology transfer professionals, scientists, and academia can take full advantage of the wealth of resources the FLC has to offer.

In FY13, it became increasingly crucial for T2 professionals to stay up-to-date on the latest science and technology policy, patent process amendments, and legislation surrounding technology transfer—given that it was the springboard year for the President’s lab-to-market initiatives. To keep the FLC community informed of the most recent science and technology policy mandates, the FLC’s Education and Training (E&T) Committee expanded its T2 curriculum by developing and launching e-learning courses that complement the training offered at FLC meetings. The inclusion of on-demand e-learning courses like “Introduction to Technology Transfer” and tools such as an interactive legislative timeline provide learners with important and relevant knowledge about technology transfer.

The Committee also hosted instructional webinars that included topics such as “Commercialization Success Tools—Strategic Marketing for Your TTO,” “Introduction to Intellectual Property,” and “Open Innovation and Technology Scouting.” These webinars served as easily accessible resources to FLC members seeking information on how to improve their results as technology transfer professionals.

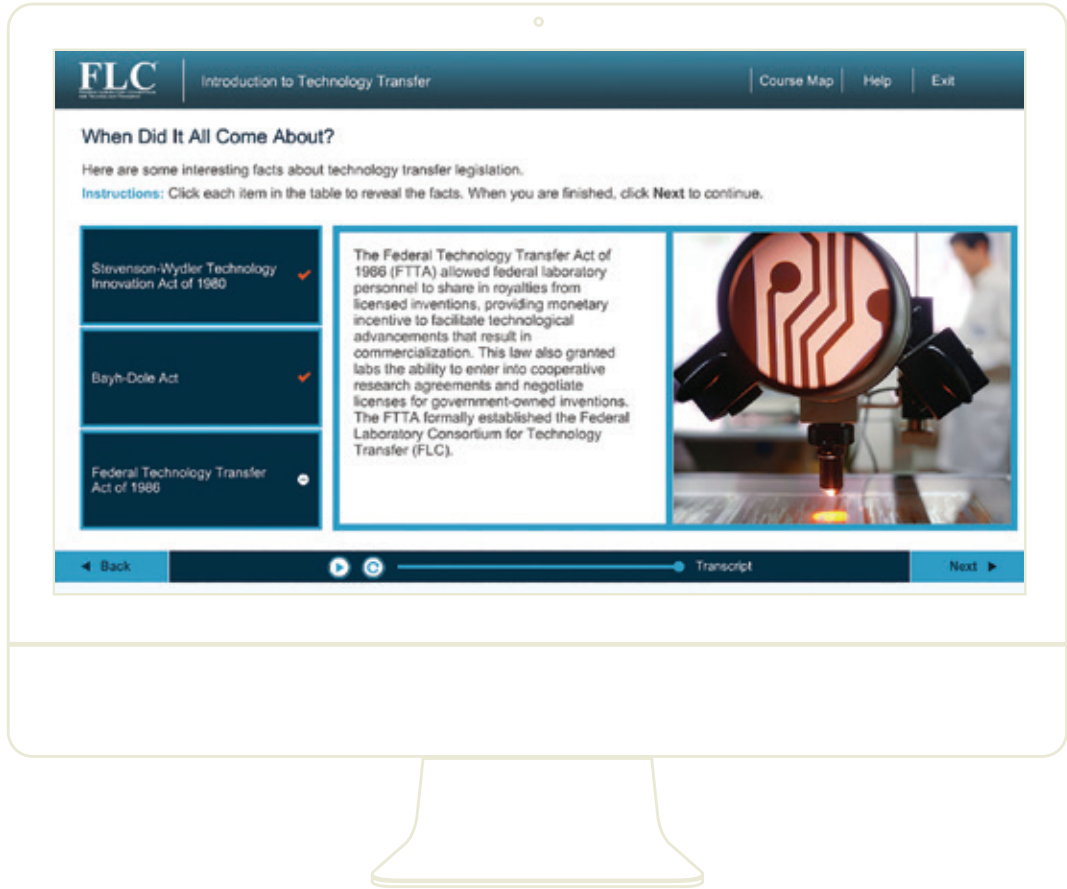
In addition to the e-learning program, the FLC E&T Committee continued its tradition of providing quality educational materials, such as the Technology Transfer Mechanisms Database, for members and newcomers to the field of technology transfer. FY13 saw updates to the print and e-book versions of the *Technology Transfer Desk Reference: A Comprehensive Introduction to Technology Transfer* and *Federal Technology Transfer Legislation and Policy* (aka “The Green Book”). The 2013 edition of The Green Book, which the E&T Committee provides in its online learning resource center, features expanded sections on Executive Branch and regulatory guidance, as well as updates to the laws governing federal technology transfer, including those caused by the newly enacted Leahy-Smith America Invents Act (AIA). In addition, the Technology Transfer Mechanisms Database and its companion “at-a-glance” matrix provide comprehensive guides to the various technology transfer options available at member agencies.



E&T Committee FY14 Initiatives

The E&T Committee looks to expand online learning opportunities, including e-learning courses, webinar series, and white papers on topics that will best serve the needs of the technology transfer community. Whether figuring out how best to navigate the patent process or simply looking to brush up on intellectual property rights, learners of all T2 professional experience can benefit from the FLC’s education and training program. The future of FLC E&T is bright as the Committee focuses on the following goals in FY14:

- Add more virtual components/supplements to traditional training courses
- Target e-learning topics for Cooperative Research and Development Agreements (CRADAs)
- Provide virtual meeting webinars that feature practical help getting technologies to market
- Release more white papers on relevant T2 topics
- Assess and develop tools to foster T2 professional development.





Fostering Partnerships and Collaboration

The partnerships formed between federal laboratories and their state and local governments are extremely beneficial for the transfer of federal technologies and are key to contributing to our nation's overall economic success. Through their daily work with industry, academic institutions and organizations, state and local governments are able to offer significant support to federal laboratories' T2 efforts. Thanks to the work of the FLC's State and Local Government (S&LG) Committee and Regional Coordinators, regional, state and local organizations are able to gain better access to federal resources for the betterment of their local community and economy.

In FY13, the FLC employed several different strategies for leveraging federal technologies at the state and local levels. Activities such as a technology-based economic development (TBED) study, promoting state and local economic development through collaborative partnerships, STEM outreach, and events are just some of the ways the FLC continues to offer resources and support for state and local organizations to participate in and benefit from federal laboratory technology transfer.

TECHNOLOGY DEPLOYMENT

The AFRL Space Vehicle Directorate, through a CRADA executed with ATA Aerospace, LLC, developed key technologies for the Red Bull Stratos team's historic balloon flight. Shown here, Felix Baumgartner setting freefall record on October 14, 2012.

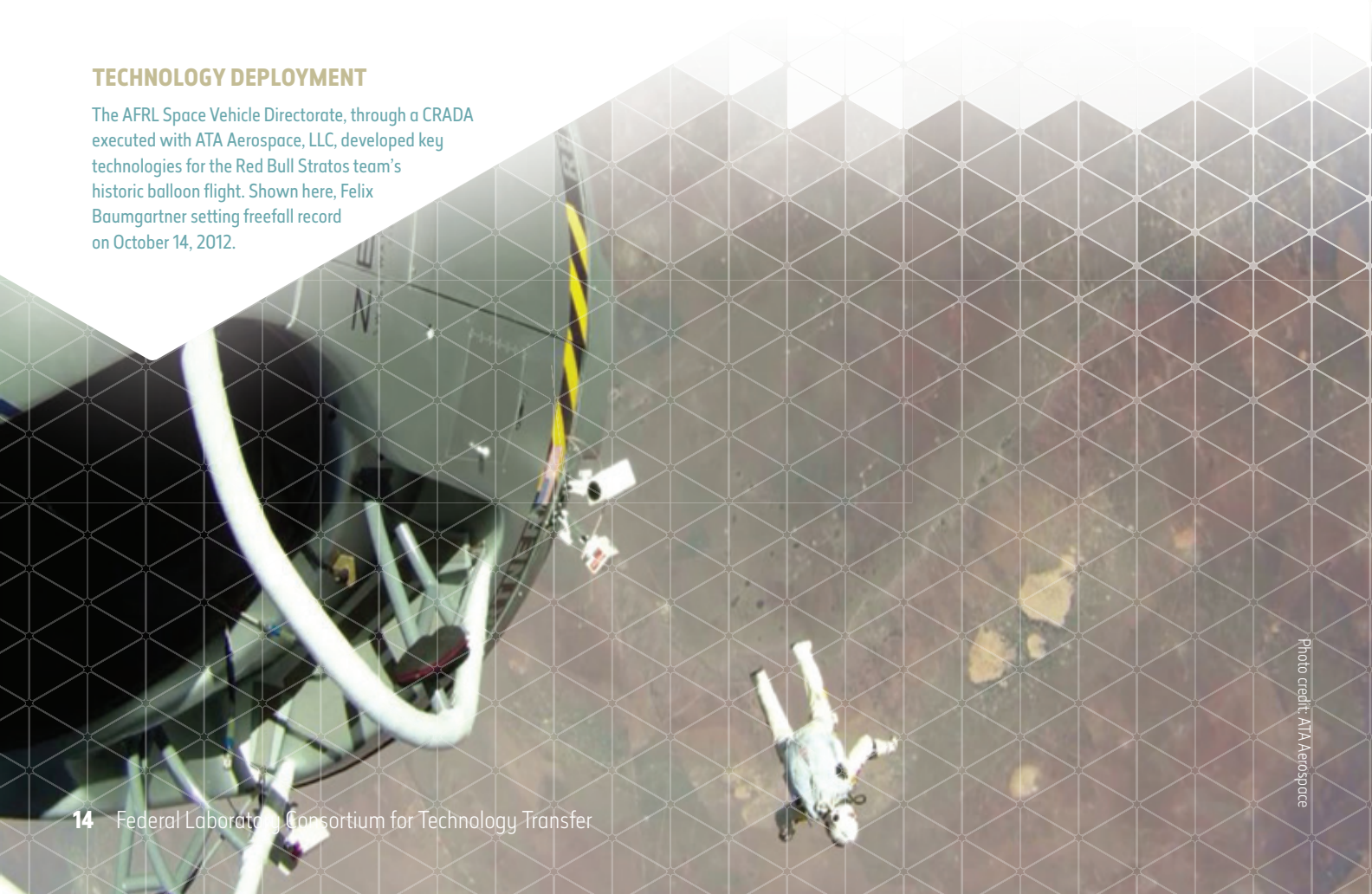


Photo credit: ATA Aerospace



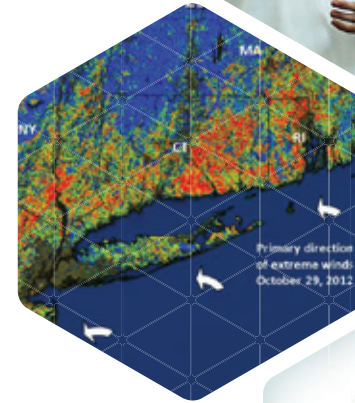
STEM

Students Matt Harms (left) and Thor Hagberg show off the Smart Target prototype in their product pitch at the Technology Commercialization Academy—an intensive summer program established through an Educational Partnership Agreement with the University of Southern Indiana and the Naval Surface Warfare Center, Crane Division.



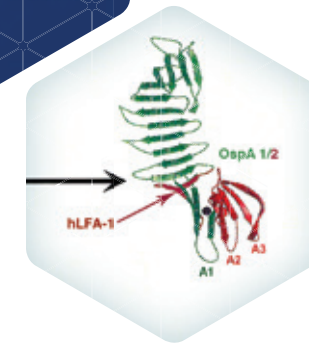
MULTI-AGENCY COOPERATION

Eastern United States: ForWarn MODIS (Moderate Resolution Imaging Spectroradiometer) views of the initial damaging effects of Hurricane Sandy on the Eastern U.S. region's forests. ForWarn is a satellite-based forest monitoring tool developed through the synergistic efforts of four federal agencies.



SPEED OF BUSINESS

Benjamin Luft, M.D., of Stony Brook University School of Medicine and John Dunn, Ph.D., of Brookhaven National Laboratory partnered to formulate a Lyme disease vaccine that is effective on all *Borrelia* species. Their collaborative R&D led to the licensed intellectual property of the Lyme disease technology to Baxter International, S.A.



UPDATE: Indiana Business Research Center TBED Study

In FY12-13, the S&LG Committee, in collaboration with the Midwest Region, completed the first phase of a pilot study documenting the network of Midwest federal labs and TBED entities. The Indiana Business Research Center (IBRC) was commissioned to collect data on industry groups and TBED organizations that have either been involved with or are interested in assisting with the transfer and commercialization of federal technologies. The purpose of the study was for federal labs to identify TBED and investor groups that would like to partner with federal laboratories. The results from the nearly 250 TBED entities and the recommendations from more than 50 interviews with TBED staff provided the S&LG Committee and the Midwest laboratories with a clearer direction on how to increase technology commercialization and engage local stakeholders. Recommendations from TBED entities included:

- Increase federal laboratory visibility for better networking opportunities with industry
- Market labs and technologies to TBED groups in their region and state
- Incentivize laboratory researchers and technology transfer personnel to be more entrepreneurial
- Develop new, as well as support existing, initiatives to help entrepreneurs get over the technology "valley of death"
- Study and replicate success.

Photo credit: USI Photo Services (STEM), ForWarn MODIS (Multi-agency), Stony Brook University School of Medicine (Speed of business)



State and Local Governments

BUSINESS AND JOB CREATION

SimTable, LLC, a producer of innovative technologies such as three-dimensional models for wildfire and emergency response training, is one of several businesses in northern New Mexico to benefit from Los Alamos National Laboratory and Santa Fe Regional Development Corporation, Los Alamos Connect's Venture Acceleration Fund.

The findings of the IBRC's TBED study spurred the S&LG Committee and the Midwest Region to further their research for the betterment of all regions by kick-starting a more in-depth pilot study that will analyze the collective intellectual property portfolios of individual Midwest laboratories. The data collection for this study has already begun using Innography, an online software program, and will continue through FY14, when a full report of the study and its findings will be released. The FLC believes that the results of this study will help all of its regions gain a better understanding and identification of their region's innovation market areas and capabilities, as well as offer insights on how to effectively communicate the themes for commercialization and collaboration purposes.

Federal Labs Provide Collaborative Value

Federal laboratories offer great value to our nation by offering technological advancements and stimulating our economy in the following areas: business and job creation, multi-agency cooperation, speed of business, STEM, and technological development. Federal laboratories are constantly evolving their R&D to keep pace with the public they serve. Through the images and captions displayed in this section, the FLC is pleased to share the collaborative efforts and dedication that the entire network of federal labs have completed to successfully address the changing business landscape within their regions.

Partnering with a federal laboratory has the potential to create new jobs, which can have an impact ranging from a small business significantly increasing its staff to the economic revitalization of an entire region.

- Belinda Snyder, State and Local Government Committee Chair

Photo credit: Bill Stengel Photography

Photo credit: United States Army Research Laboratory



Connecting T2 with You

Since its organization in 1974, the FLC has built its technology transfer service awareness on the foundational basis of communication and outreach. As one of the primary means of advocating the significant impact technology transfer has on the economy, outreach efforts remain a top priority on the FLC’s annual agenda. Given the fiscal challenges that took place this year across government agencies, the FLC strategized new ways to develop, deploy, and disseminate its wide range of services to both members and industry.

Improving Technology Transfer Services

With the re-launch of the FLC’s Available Technologies Search Tool in FY12, the FLC forged into FY13 by continuing to strive to meet the demands of the Obama Administration’s technology transfer initiatives. Taking on the FLC’s largest database initiative to date, the FLC Communications Committee began creating and developing FLCBusiness—an even more enhanced database that can be utilized by labs, small businesses, and the public alike.

Although still in the beta stage of development, FLCBusiness is a comprehensive resource search database created to advance technology transfer and commercialize federal research to support higher-growth for American businesses. The impetus for FLCBusiness was the President’s and OSTP’s call for all federal laboratories and government entities to market their technologies to businesses. The FLC responded to this call by creating FLCBusiness as a way to leverage federal resources into one hub of information so that any business seeking to engage with a federal laboratory could do so with ease and efficiency.

Working in cooperation with Agency and Laboratory Representatives from across the country, the FLC Communications Committee has input copious amounts of information into the FLCBusiness database, such as:

- Comprehensive laboratory profiles
- Laboratory facility space and equipment
- Funding opportunities
- Lab-specific, special programs
- T2 publications.

One of the FLC’s most significant undertakings, the FLCBusiness site is designed to help build awareness and market federal laboratory resources in a one-stop shop. Through its three-step search, engage, and grow process, FLCBusiness will help members of industry locate the laboratory resources they need to grow their business.



Growing the T2 Network

Aside from providing innovative tools to bolster technology transfer, the FLC is always looking for ways to increase its public visibility. Through various social media channels (i.e., Twitter, Facebook, LinkedIn, and YouTube), the FLC has exponentially grown its network of scientists, engineers, T2 professionals, entrepreneurs, academic researchers, and others.

Whether tweeting about a recently licensed federal technology, spotlighting a laboratory’s research through a Facebook post and YouTube video clip, or listing an available technology transfer job at a laboratory via LinkedIn, the FLC utilizes the benefits of each of its social channels to maximize the exposure of federal technologies and their readiness for transfer.

The Committee also delivers an online news resource, *FLC NewsLink*, to keep the community apprised of the latest AIA news and legislative hearings. *FLC NewsLink*, which publishes daily posts and is delivered to members electronically ten times a year, also keeps the FLC community aware of what is happening at labs nationwide by sharing technology research stories, laboratory spotlights, press releases and white papers, and championing available technologies.



FLC Social Media Metrics



300
followers gained
in FY13

443
tweets posted

182
retweets



205
new page likes
in FY13

66
posts

1/3
of all posts
were shared



80
new followers
gained in FY13

40
posts

100
the average
of impressions
made per post



30
channel subscribers
gained in FY13

42
videos on channel

694
video views



FY14 FLC Communications Initiatives

In keeping consistent with its ability to deliver quality, budget-friendly products to benefit the technology transfer community, the FLC plans to continue beta development and testing of FLCBusiness into the new year. The business resource site is anticipated to officially launch in fall 2014, with formal support coming from OSTP.

Also slated for development in FY14 is the redesign of the FLC website, www.federallabs.org, and a complete rebranding of the FLC's image. The new site will be a more responsive, modern website built in a content management system platform, and will offer a range of new and enhanced capabilities sections:

- Available Technologies Search Tool
- FLCBusiness
- Pertinent information about the FLC and technology transfer
- An interactive regional and state profile map
- An updated T2 Mechanisms Matrix
- A T2 mentor forum and job board
- A revamped learning platform to deliver e-learning courses and webinars.

We [the FLC] wanted to step up to the plate and provide a collaborative environment for industry to search and find vital information about federal laboratory resources available for industry use. This tool is the missing piece to the T2 puzzle for many businesses.

- **Mojdeh Bahar**, FLC Chair (2011-2013), Assistant Administrator, Office of Technology Transfer, USDA-Agriculture Research Service



Planning on a Budget

Each year, the FLC works tirelessly to put together its national meeting, which has come to serve as the apex event for T2 education and training, networking opportunities and award recognition. Unfortunately, the FLC had to make the difficult, but fiscally prudent, decision to forgo its 2013 national meeting scheduled to be held outside of Denver, Colorado, due to the budget constraints and travel restrictions that all government entities experienced throughout the year. In lieu of the national meeting, the FLC Program Committee worked in conjunction with the E&T and Communications committees to provide the FLC community with pertinent webinars, e-learning courses, and vital T2 news and AIA legislation updates as an alternative.

The Program Committee used FY13 to strategize, plan, and execute a comeback for the FLC 2014 national meeting. In an effort to keep travel costs low for attendees, the meeting was held in late April, in Rockville, Maryland, a location close to many government agencies' headquarters.

The Committee was dedicated to making the 2014 national meeting as educationally beneficial and professionally informative as ever. In sticking with the Administration's technology transfer lab-to-market initiatives, the 2014 national meeting centered on the theme of "Accelerating Innovation for Economic Impact."

The meeting agenda is slated to feature:

- A full day of T2 training courses
- Various technology needs and human interest panels
- Industry Day, with participation from leading scientific and technology companies
- Live streaming of select speakers and sessions, and much more.



FLC NATIONAL MEETING

Accelerating Innovation for Economic Impact

Rockville, MD • April 21 - 23, 2014



Achieving Innovative Success

Since the start of its technology transfer awards program in 1984, the FLC has recognized nearly 200 federal laboratories and their industry partners for outstanding technology transfer achievements. In FY13, the Awards Committee remained committed to making the program as inclusive as possible to reflect the diversity of the laboratories that encompass the FLC community. Through a thorough review of the awards criteria and submission procedures, the committee ensured that the FLC awards demonstrate the practice of technology transfer while taking into consideration the evolving technological and scientific trends and conditions in the field.

This year, the Awards Committee and National Advisory Council members—a panel of renowned scientists, physicians, engineers, and technology transfer professionals from federal laboratories—judged 113 nomination submissions. Of those, the FLC presented 27 awards to winners representing 20 laboratories across 7 agencies. Thanks to the dedication of the FLC’s Regional Coordinators, many of the 2013 FLC national awards were presented onsite to individual labs and their partners, as well as at separate ceremonies accompanying regional meetings.

With scientific and technological achievements ranging from lifesaving therapeutic drug discoveries to satellite-based assessment tools designed to detect and protect against harmful changes to the environment, recipients in the eight 2013 awards categories displayed outstanding dedication to their fields and commitment to advancing their innovations for the benefit of the global community.

2013 FLC National Awards Categories and Recipients

EXCELLENCE IN TECHNOLOGY TRANSFER

Department of Agriculture – Agricultural Research Service

ARS Appalachian Fruit Research Station

Commercial Rotating Cross-Arm Trellis Technology for Blackberry Production

ARS Mid South Area, Biological Control of Pests Research Unit

In Vivo Production of Entomopathogenic Nematodes

ARS Mid South Area, Biological Control of Pests Research Unit

Method for Encapsulation of Microparticles

Invasive Insect Biocontrol and Behavior Laboratory

Novel Microbial Insecticide *Chromobacterium subtsugae*

Department of Agriculture – Forest Service

Rocky Mountain Research Station, Wildland Fire Management Research, Development and Application Program

Development and Application of the Wildland Fire Decision Support System

Department of Defense – U.S. Army

U.S. Army Armaments Research, Development and Engineering Center

Foamed Celluloid and Its Applications to Propellant Packaging

Department of Defense – U.S. Navy

Naval Medical Research Center

Adhesin-based Vaccine Against Enterotoxigenic *Escherichia coli* (ETEC) Travelers’ Diarrhea

Department of Defense

Uniformed Services University of the Health Sciences

Treatment and Prevention of Deadly Hendra and Nipah Virus Infections

Department of Energy

Oak Ridge National Laboratory

Pulse Thermal Processing

Pacific Northwest National Laboratory

Injectable Radiogel for High-Dose Interstitial Radiation Therapy

Pacific Northwest National Laboratory

Mixed-Acid Vanadium Redox Flow Battery Technology

Pacific Northwest National Laboratory

Next-Generation Microchip Ion Mobility Spectrometer

Sandia National Laboratories

Removal of Radioactive Cesium from Seawater Using Crystalline Silico-Titanates

Department of Health and Human Services – National Institutes of Health

National Institute of Allergy and Infectious Diseases

Novel Therapeutic for Tuberculosis - SQ109

National Institute of Allergy and Infectious Diseases

Sound Attenuation Canopy



Winners of one of the FLC Awards for Excellence in Technology Transfer, Capt. Stephen Savarino and colleagues at the Naval Medical Research Center create vaccine against the diverse enterotoxigenic *Escherichia coli* (ETEC) bacteria, a leading cause of travelers’ to help combat the war against gastroenteritis.

Photo credit: Naval Medical Research Center



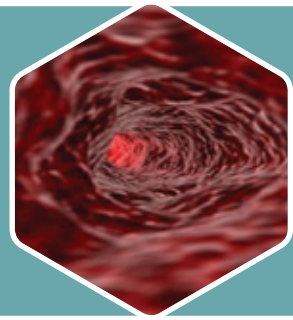
Students Sean Linehan and Dawn Savidge of Ball State University's Entrepreneurship Center worked with NSWC, Crane scientists to develop and expand upon the patented "Sim Skin" technology to transition the product into the market.

National Heart, Lung & Blood Institute

Glybera®: First Gene Therapy Recommended for Approval in West

National Aeronautics and Space Administration

Lyndon B. Johnson Space Center
Endothelium Preserving Microwave Treatment for Atherosclerosis



Since the July 2011 Space Act Agreement (SAA) between NASA-JSC and meridian Health Systems, P.C., further collaborative study and development of NASA-JSC's patented Endothelium-Preserving Microwave Treatment for Atherosclerosis technology is accelerating into the marketplace as a nonsurgical, low-cost tool to repair diseased coronary arteries.

Lyndon B. Johnson Space Center
Robotic Glove

INTERAGENCY PARTNERSHIP AWARD

USDA Forest Service, Stennis Space Center, Oak Ridge National Laboratory, USGS Earth Research Observation Science Center

STATE AND LOCAL ECONOMIC DEVELOPMENT AWARD

John Dement
Naval Surface Warfare Center, Crane Division

STEM AWARD

Air Force Research Laboratory Directed Energy and Space Vehicles Directorates
Dr. Mary Satterfield
National Institute of Standards and Technology

OUTSTANDING TECHNOLOGY TRANSFER PROFESSIONAL AWARD

"Military 2 Market Team"
Naval Surface Warfare Center, Crane Division
Ball State University Entrepreneurship Center

ROOKIE OF THE YEAR AWARD

Michael Larkin
Naval Undersea Warfare Center Division Newport

LABORATORY DIRECTOR OF THE YEAR AWARD

Michael Coats
Lyndon B. Johnson Space Center

Duane Embree
Naval Surface Warfare Center, Crane Division

Dr. Paul Hommert
Sandia National Laboratories

FLC Service Award – REPRESENTATIVE OF THE YEAR

Brian Suh
SPAWAR Systems Center Pacific

Photo credit: USI Photo Services (top), Lyndon B. Johnson Space Center (bottom)



Photo credit: NASA Ames

An FLC national award symbolizes one of the highest honors bestowed in T2, and this year's honorees have demonstrated a commitment to ensure that the American public has access to federally created technologies.

- James Poulos, III, Awards Committee Chair

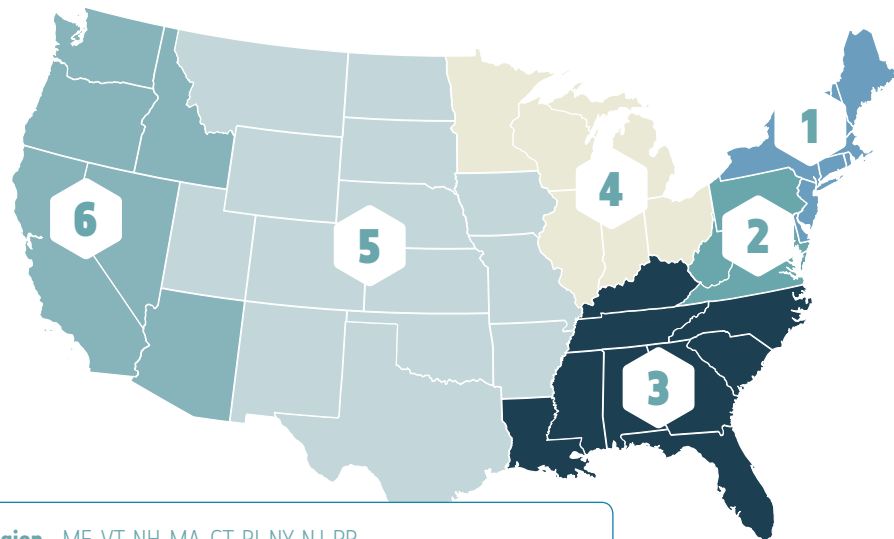


T2 Across America

To successfully advance federal innovations and technologies, the FLC relies heavily on the actions and efforts of its six geographical regions across the country. Through the assistance and advocacy of regional coordinators, deputy regional coordinators and other key members, the FLC reaches federal laboratories on a local level and provides tailored T2 education, training, and networking opportunities based on the scientific and technological needs of that geographic area.

The regional activities and events that take place throughout the year are vital to raising awareness about the significant effects that technology transfer has on our economy. By collaborating with regional technology-based economic development (TBED) groups, businesses, corporations and academic institutions within the region through regional meetings, laboratory tours, and other activities, the FLC broadens its network of resources for its members and aids in building industry partnerships.

Despite budgetary restrictions, FY13 proved to be quite successful for technology transfer throughout the regions. Through steadfast promotion of business collaborations, technology patent approvals, licensing, and FLC representatives participating in regional conferences, the future of T2 awareness and successes across our country looks brighter than ever.



- 1 Northeast Region** – ME, VT, NH, MA, CT, RI, NY, NJ, PR
- 2 Mid-Atlantic Region** – PA, DE, MD, VA, WV, DC
- 3 Southeast Region** – AL, FL, GA, LA, MS, NC, SC, TN
- 4 Midwest Region** – OH, IN, IL, MI, WI, MN
- 5 Mid-Continent Region** – AR, CO, IA, KS, MO, MT, NE, NM, ND, OK, SD, TX, UT, WY
- 6 Far West Region** – AK, AZ, CA, HI, ID, NV, OR, WA

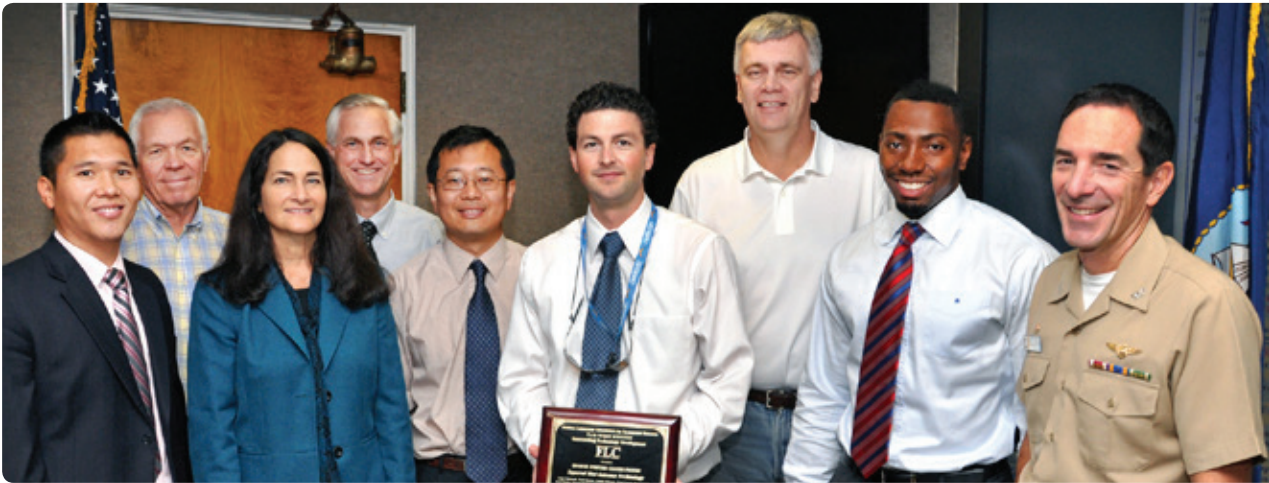
Photo credit: U.S. Navy photo, Alan Antczak



Far West Region

Comprised of over 50 laboratories and spread out over the eight western states of Alaska, Arizona, California, Hawaii, Idaho, Nevada, Oregon and Washington, the FLC Far West Region has a wealth of federal laboratory resources and programs that are available for businesses to utilize and benefit from. As in years past, the Far West Region continued to center its FY13 goals around helping regional small businesses and startups take advantage of laboratory research and facilities. Due to budget constraints and the federal government shutdown that occurred in early fall, events such as the annual, joint Far West/Mid-Continent Regional meeting had to be reduced in scope, format, and duration, causing a temporary road block in the way of regional technology transfer progress.

Always proactive, regional representatives developed a panel on partnering with federal laboratories and offered one-on-one meetings at the WBT Innovation Marketplace, touting the region's technologies and laboratory partnership opportunities available for entrepreneurs and corporate licensing partners. The Far West also supplied materials and information promoting its laboratories' R&D at training conferences such as the 2013 National SBIR Conference, TechConnect World Summit and Innovation Showcase, as well as other business and technology venues. A representative from the Far West Region held a training session on "Federal Labs and T2" at the 2012 National SBIR Conference in Portland, Oregon, and a session on "Partnering With Federal Labs in SBIR/STTR" at the Collaborative Innovation 2012 conference in Tacoma, Washington. Additionally, regional representatives attended the SPIE Photonics & Optics and the National Defense Industrial Association (NDIA)/Navy Gold Coast events in San Diego, California, to promote opportunities to partner with federal laboratories and leverage laboratory capabilities within the region through technology transfer. The joint 2013 FLC Far West and Mid-Continent regional meeting took place in Monterey, California.



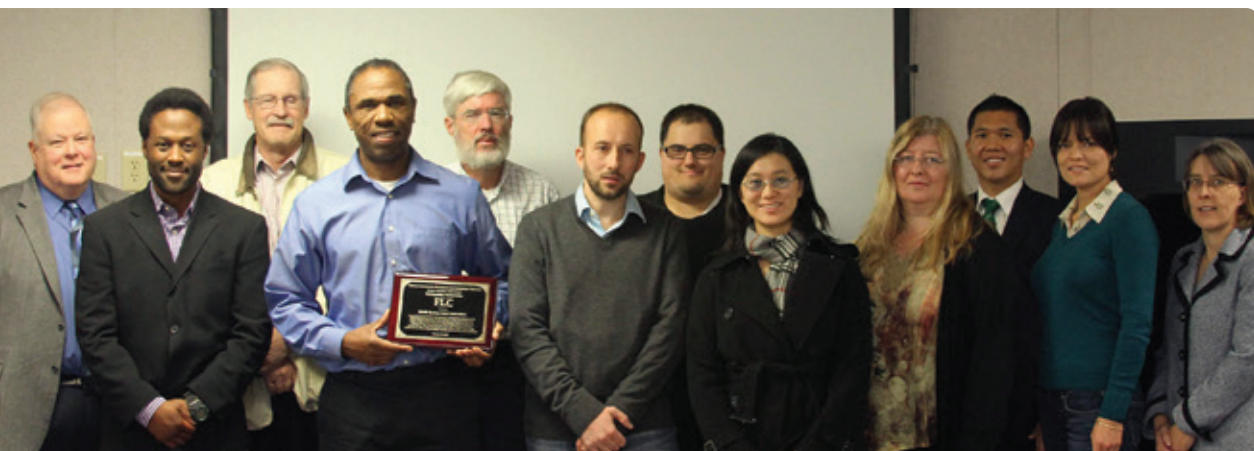
Tapered Slot Antenna Technology team accepting 2013 FLC Far West Outstanding Technology Development Award at SPAWAR Systems Center Pacific



The work of the FLC regional coordinators and representatives requires a lot of voluntary time, commitment and dedication to the field. This year, Far West Regional Coordinator Brian Suh, Director of the Technology Transfer Office at Space and Naval Warfare Systems Center Pacific (SSC Pacific), went above and beyond his duties to champion the significance of technology transfer, earning the FLC's national Representative of the Year Award. His passionate activism for technology transfer has delivered far-reaching results in just a few years, and did not go unnoticed by his peers and region.

Along with Suh's FLC national award, 12 laboratories were recognized with regional awards for their outstanding technology developments, partnerships, commercialization successes, and professionalism. Winners of these awards included NASA Dryden Flight Research Center for its outstanding commercialization success in developing a fiber optics sensing system; Lawrence Livermore National Laboratory for outstanding partnership work in rapid viability polymerase chain reaction; and Idaho National Laboratory for outstanding technology development of its switchable polarity solvent forward osmosis. In addition, the award for Technology Transfer Professional of the Year was presented to Kristin Kimball, USDA-ARS.

Because the 2013 Far West regional meeting was significantly impacted by sequestration and the government shutdown, the awards ceremony did not take place as scheduled. Fortunately, the regional coordinator was able to present the awards at SPAWAR Systems Center Pacific, Lawrence Livermore National Laboratory, NASA Ames Research Center, and USDA-Agricultural Research Service. These laboratory visits and award presentations were extremely well-received by the laboratories.



Earth System Grid Federation team accepting 2013 FLC Far West Outstanding Partnership Award at Lawrence Livermore National Laboratory

Photo credit: Rick Shindell, FLC Far West Regional Support



Mid-Atlantic Region

In FY13, laboratories in the Mid-Atlantic Region made several strides through technology R&D and the forging of diverse partnerships to move their technologies into the marketplace.

Seven of the over 100 federal laboratories and facilities that comprise the Region achieved awards for their innovative research in areas such as excellence in technology; interagency partnerships; outstanding technology transfer professionalism; science, technology, engineering, and mathematics (STEM); representative of the year; and state and local economic developments.

The National Energy Technology Laboratory (NETL), which achieved the regional award for Excellence in Technology Transfer, also gained attention for its significant industry partnership in its development of a unique platinum-chromium alloy stent. Working side-by-side with Boston Scientific, NETL helped to design a new alloy for coronary stents and develop a process to produce the alloy for use as stent materials. The new stent alloy material is thinner, more flexible, and easier to locate on an X-ray. Since its introduction to the market in 2010, the stent has generated billions in global sales. As of FY13, NETL and Boston Scientific's partnership work has been successfully translated into other medical treatments for maladies such as peripheral artery disease, particularly in the legs, where stents have dramatically reduced the risks of death and limb amputation.

NETL and Boston Scientific's partnership success is merely one example of the exciting R&D taking place across the Mid-Atlantic Region. Educating laboratories on best practices for entering into patent licensing agreements, Cooperative Research and Development Agreements (CRADAs), and Partnership Intermediary Agreements has been a key focus for the region. Industry and interagency partnerships, along with offering T2 training and education at the Mid-Atlantic regional meeting, which took place in Cambridge, Maryland, will continue to be a major initiative in FY14.

This platinum-chromium alloy stent, which is thin, flexible and easy to locate on an X-ray, has generated billions in global sales.

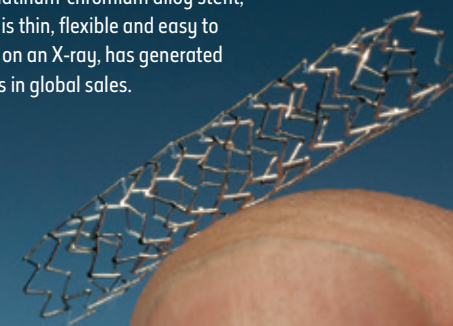


Photo credit: NETL/Stephen Anderson



Regional Activities

Additionally, the Region continued to develop relationships with local economic development partners. The Mid-Atlantic Region hosted a Maryland Technology Day event focusing on past innovations in the state and plans for the future. New relationships were fostered with the Northern Virginia Technology Council and the D.C. Department of Small and Local Businesses; and existing relationships continued to be developed with TEDCO, Montgomery County Economic Development, and Maryland Department of Business and Economic Development. Also, on a state level the Region participated in Maryland legislative working groups devoted to fostering economic development and growth within the state.

Mid-Continent Region

Spanning 14 states and with nearly 60 laboratories connecting the heartland of America, the Mid-Continent Region responded to the fiscal challenges of FY13 with innovative technologies and events that met regional needs. Notable technology developments such as NASA Johnson Space Center's X1 Robotic Exoskeleton, as well as Sandia National Laboratories' "Biometric Membranes for Water Filtration" are just a few examples of the top R&D projects produced by laboratories in the Mid-Continent Region.

To keep up with varying R&D projects taking place in the region, the regional coordinator helped Mid-Continent members stay up-to-date with the latest advancements in negotiating licenses and agreements, and policy news regarding the AIA at its joint regional meeting with the Far West and through its regional newsletter, email communications, and technology networking events.

Through the dissemination of such information, regional coordinator ensured that their constituents were at the top of their game when entering into a potential partnership or taking advantage of federal technology transfer programs like SBIR/STTR.

In addition to its cutting-edge research for agencies that include the Department of Defense (DOD), Department of Energy (DOE), and Department of Agriculture (USDA), Mid-Continent regional laboratories also found ways to give back to their communities through STEM programs like USDA/ Agriculture Resource Service (ARS)/Jonesboro Laboratory's Future Scientist Program, a teacher development program. Instructional development courses like this program allow teachers and students to learn about science and employment opportunities available in agriculture as well as the region.

Project Engineer Shelley Rae demonstrates the X1 Robotic Exoskeleton at NASA's Johnson Space Center, Advanced Robotics Development Lab. The X1 could be used as an inspace exercise machine that provides resistance against leg movement. Conversely, it can potentially be used on Earth to assist paraplegics with walking.



Photo credit: NASA/Robert Markowitz

Regional Activities



Photo credit: Argonne National Laboratory

Argonne battery researcher, Javier Bareno Garcia-Ontiveros, manipulates an air-sensitive sample inside an inert glove box. Argonne National Laboratory in the FLC's Midwest region is one of several research institutions that form an integral part of the Joint Center for Energy Storage Research, a public-private partnership that aims to overcome critical scientific and technical barriers and create new breakthrough energy storage technologies.

Midwest Region

In FY13, the Midwest Region focused on strengthening its partnerships with regional economic development organizations and investors. With a network of over 30 federal laboratories and representing agencies such as DOD, DOE and NASA, to name a few, the Midwest Region comprises Ohio, Indiana, Illinois, Wisconsin, Michigan and Minnesota.

This year, the Region concluded its first pilot project, "Innovation Partnership Networks in the Midwest," with research conducted by the Indiana Business Research Center (IBRC) of the Kelley School of Business at Indiana University. Data was collected from nearly 250 TBED entities with a presence in the Midwest, and findings were drawn from more than 50 interviews conducted by the IBRC research team. The conclusions drawn from the data collected offered beneficial insights for regional laboratories to work together with industry. The Region used the recommendations it received from the study to pinpoint TBED entities and investor groups within the region that are open to collaboration with laboratories.

The Midwest Region is now entering its second pilot program with Innography—an online software program that provides intellectual property business intelligence by correlating patent and trademark data with financial, litigation, and other key business information. Already being used by the Naval Surface Warfare Center Crane Division for a Navy T2 pilot program, Innography will help the Region gain a better understanding and identification of its innovation themes, specifically technology markets and invention capabilities. Through an analysis of a collective intellectual property portfolio belonging to the individual regional laboratories, the Region hopes to communicate its innovation themes for commercialization and collaboration purposes as a collective region.

While the Region did not hold its annual regional meeting, coordinators did use their time and resources in other innovative and productive ways, such as continuing with its FY13 regional awards, and holding presentations for those who were nominated. Awards



were handed out in three award categories: Excellence in Technology Transfer, Regional Appreciation Award, and Partnership Award. Midwest regional labs also received 2013 FLC national award honors for state and local economic development, outstanding technology transfer professionalism, and laboratory director of the year.

The Region also participated at technology showcases and commercialization workshops, and provided support to its regional members by broadcasting upcoming T2 training and IP education courses in the Region. Thanks to the tireless efforts and commitments of its coordinators, the Midwest Region continues to drive technology transfer and economic development in the region to new heights.

Northeast Region

Representing a diverse group of agencies such as the Departments of Commerce, Energy, Defense, and Transportation, among others, the FLC's Northeast Region contains approximately 35 member R&D laboratories and facilities across the New England area and New York, New Jersey, and Puerto Rico. During FY13, the Region centered its focus on progressing T2 training opportunities and improving its already stellar STEM and awards programs.

The Northeast's regional meeting, held in early September 2013 in Fishkill, New York, provided a great opportunity for members to network, share, and work to develop new, efficient strategies for T2 in the region. Session topics that offered aid to many members as they continue to work through the T2 process included: "The Future of Tech Transfer Metrics," "Licensing Issues - Collection of Royalties, Finding Licensees, and Other Issues," along with a review of regional laboratories' technologies ready to be commercialized.

In its ongoing efforts to support the enrichment of STEM education, the Northeast Region offered grants sponsoring projects based on existing curriculum; areas of STEM not yet addressed by current curriculum; or extracurricular STEM activities such as clubs, science fairs, enrichment activities or teacher training. To aid the Region's STEM outreach initiatives, the New Jersey Institute of Technology's (NJIT) Women in Engineering and Technology Initiative summer program, also known as FEMME8, gave 22 female middle-school students the opportunity to tour several Picatinny Arsenal facilities. Like many of its kind in the Region, the program is designed to enhance students' STEM knowledge, through field trips, discussions, experiments, and skill-building projects.

To highlight the efforts of its laboratories' outstanding T2 work and successes, the Region recognized two labs with the Excellence in Technology Transfer Award: the U.S. Army Armament Research, Development, and Engineering Center and the Naval Undersea Warfare Center Division, Newport. Receiving the award for Regional



In its summer program for Women in Engineering and Technology Initiative, also known as FEMME8, female middle-school students toured U.S. Army ARDEC, on July 23 to learn about potential careers for those interested in science, technology, engineering, and mathematics.



The Region received further recognition through the National Excellence in Technology Transfer Award given to the U.S. Army Armaments Research, Development, and Engineering Center for "Foamed Celluloid and Its Applications to Propellant Packaging."

Southwest Region

In continuing with FY12 efforts, the Region used FY13 to expand its networking and communications capabilities. In lieu of a regional meeting, the regional coordinator traveled to the USDA ARS Mid-South Area Technology Transfer Office in Stoneville, Miss. To present the region's Excellence in Technology Transfer Awards. The regional coordinator also hosted an on-site regional awards presentation at NASA Stennis Space Center for the Southeast FLC Partnership Award of which Stennis was a principal partner. Electronic outreach and communications through social media channels and roundtable discussions increased significantly due to government restrictions on travel and conference attendance. These communications proved vital for regional members to keep up with new patent application procedures such as the AIA's "First-Inventor-to-File" and policy hearings.

Additional T2 successes in the Region were presented to various laboratories in three categories: Project of the Year, Excellence in Technology Transfer Award, and the Partnership Award. Three labs received recognition for their commercialization successes in areas such as: a technology that can be used in bio control products to help with plant disease management, proving 100 times more effective than current



Located in the FLC's Southeast region, Oak Ridge National Laboratory (ORNL) evaluates and simulates engines, electric motors, and transmissions in conventional and hybrid powertrain configurations from light-duty cars to heavy-duty trucks with its new Vehicle Systems Integration (VSI) Laboratory. Industry partners can use VSI's data to adjust vehicle designs accordingly to help meet federal regulations, addressing the country's demand for cleaner, more efficient powertrains.



Advancing for the Future

The FLC Executive Board spent FY14 continuing to find ways to impact our nation's economy and facilitate federal technology transfer. While 2013 may be marked as a year of fiscally strained budgets, the FLC saw those constraints as an opportunity to streamline operations further and capitalize on the Administration's calls for conducting technology transfer with minimal resources. By setting strategic goals such as the planning of the 2014 FLC national meeting, and strengthening its communication and outreach efforts to industry with the creation of the FLCBusiness database, the FLC was able to carry out its mission to accelerate technology transfer in an efficient and effective manner.

The Executive Board and its committees are extremely optimistic with what the future holds for the FLC community. In FY14, the FLC implemented several technology transfer initiatives that will continue into FY15 and beyond.

FLC Initiatives

- Participate in lab-to-market working groups and provide spheres of influence in technology transfer activities
 - Launch the FLCBusiness resource tool in beta format; continue to populate the databases
 - Redesign the FLC website and rebrand the FLC image
 - Strengthen FLC networking through regional meetings and state and local government interactions
 - Launch the first lab and industry tech-to-market virtual conference in November 2014
 - Continue to promote and improve the Available Technologies Search Tool
 - Reengineer the structure of the FLC's annual meeting beginning with the 2015 meeting in Denver, CO.
- Develop a new FLC Strategic Plan
 - Develop implementing guidelines for committees on the Strategic Plan.
 - Create new and relevant technology transfer e-learning courses and white papers
- Update the T2 Mechanisms Database
 - Develop tools to foster technology transfer professional development
 - Conduct training webinars on relevant technology transfer topics



- Increase awareness of federal laboratories' tech transfer successes
 - Develop and disseminate FLC awards program branding and guidelines

Maintaining the FLC's Strategic Focus

The Planning and Policy (P&P) Committee, led by the Vice Chair of the FLC, provides the groundwork for the FLC to carry out its goals and provide for its members. To keep the FLC's objectives on track and aligned with the OSTP's agency-wide lab-to-market initiatives, the Committee initiated a process in FY14 to revamp, revise and implement a new streamlined Strategic Plan for the FLC. This new Strategic Plan will feature specific organizational goals that meet the FLC's statutory mandates, which are relative to the Administration's lab-to-market initiatives and cross-agency priority goals. The Plan will also provide guidance to the various FLC Committees regarding best practices for carrying out those goals in FY15. The P&P Committee also holds responsibility for developing and managing formal relationships with similar organizations through Memoranda of Understanding (MOUs). MOUs are a valuable resource in that they help to advance the FLC and like-minded organizations' missions through co-marketing campaigns and technology transfer training opportunities to each other's membership.





2013 Financial Statement

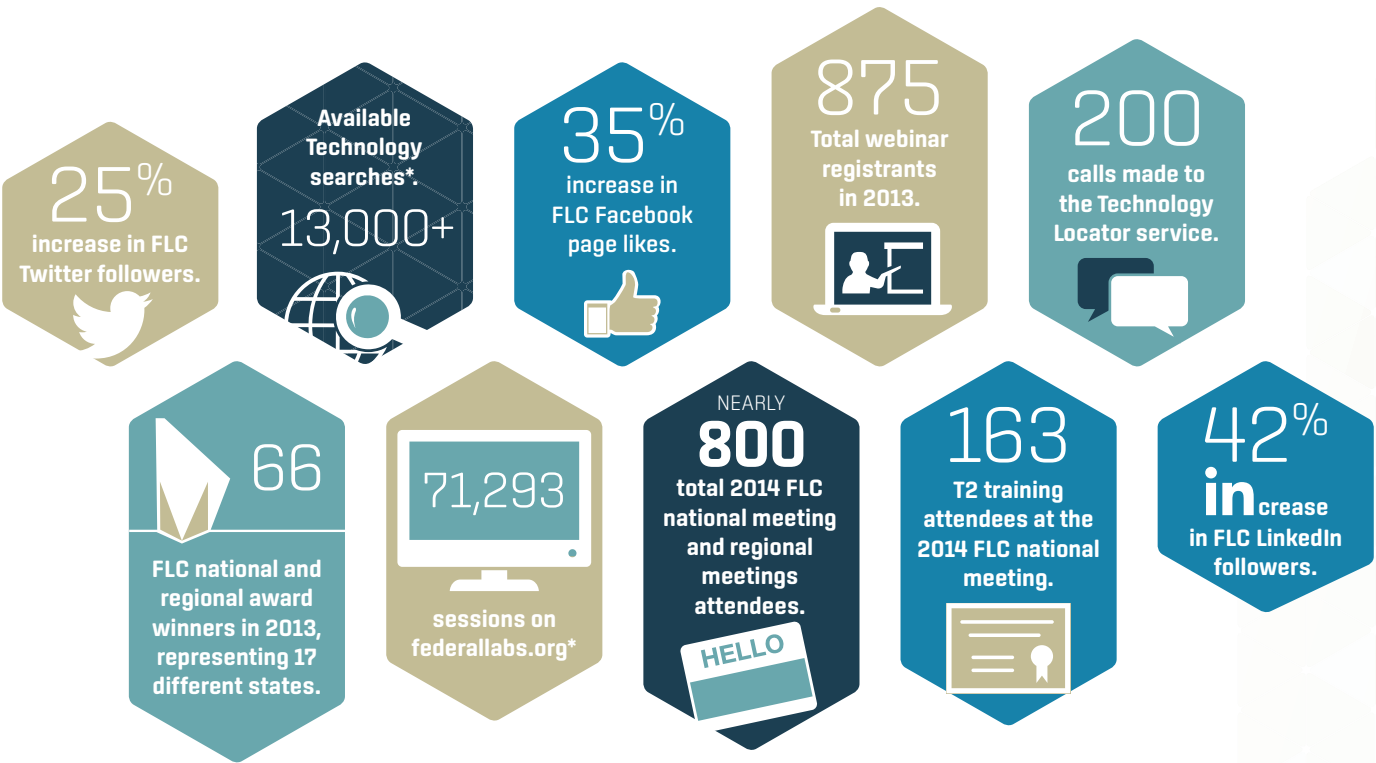
Funding for the FLC

By statute [15 USC §3710(e)(6)], the FLC receives its funding as a stated percentage of the intramural research and development budget of each federal agency for the fiscal year. These funds are transferred to the National Institute of Standards and Technology [NIST] at the beginning of each fiscal year and then transferred by NIST to the FLC to conduct its activities.

Below is a summary schedule of FLC revenues and disbursements as reported on the NIST ledgers, as well as a summary of agency contributions in FY13.

FLC Organization Activity Stats

Featured below is a compilation of all of the FLC’s activity performance figures. These metrics offer insight into the value of the growing resources, tools and services that the FLC is committed to providing for its members and industry.



*From Jan. 1, 2013 – Dec. 31, 2013



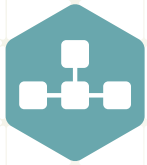
Schedule of Revenues and Disbursements

	2012	2013
Revenues	\$3,372,301	\$3,032,961
Disbursements		
Contract Support	\$1,207,435	\$1,292,789
NIST Administrative Charges	\$191,635	\$192,644
Committee/Operations	\$911,810	\$1,361,153
Total Disbursements	\$2,310,880	\$2,846,586

Agency Contributions to the FLC for Fiscal Year 2013

Agency	Amount Paid
Department of Agriculture	\$96,190
Department of Commerce	\$89,128
Department of Defense	\$1,516,151
Department of Energy	\$479,000
Department of Health and Human Services	\$33,464
Department of Homeland Security	\$32,344
Department of Interior	\$50,080
Department of Justice	\$0
Department of Labor	\$0
Department of Transportation	\$30,536
Department of Veterans Affairs	\$47,416
Environmental Protection Agency	\$20,228
National Aeronautics and Space Administration	\$157,376
National Institute of Health	\$456,112
National Science Foundation	\$24,936
Total	\$3,032,961

* Disbursements are made across fiscal years.



Mandated to Boost Technology Transfer

The membership of the FLC is comprised of the federal laboratories, each of which is represented by Agency Representatives (ARs) and Laboratory Representatives (LRs).

ARs are senior representatives who are appointed by each parent federal agency that typically has more than one member laboratory in the FLC. ARs represent the high-level interests of their parent federal agencies, and serve as institutional links between the Consortium and their respective agencies. They coordinate with the federal laboratories that are within their agency’s jurisdiction, assist and advise Consortium leadership about maintaining relevance to changing agency missions/priorities, and support the accomplishment of the FLC’s mandates.

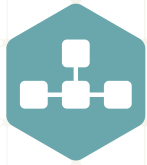
LRs are federal laboratory staff members who are appointed by each FLC member laboratory. They serve as the primary link between the FLC and their laboratory. They represent their laboratory regarding technology transfer and related activities, and assist the FLC with servicing requests for technical assistance.

ARs and LRs cast votes in FLC national and regional elections, in addition to voting on changes to Consortium Bylaws, policies, and procedures.

To best serve its large and geographically diverse membership and most effectively administer its affairs and services, the FLC is organized into 6 regional subdivisions: Far West, Midwest, Mid-Atlantic, Mid-Continent, Northeast, and Southeast. Each Consortium member laboratory is a member of the region in which it is located. Regional Coordinators (RCs) and Deputy Regional Coordinators (DRCs) are elected by the voting members of each region to carry out the affairs of the region.

The Executive Board is the FLC’s governing body. It is comprised of four nationally elected positions—FLC Chair, Vice-Chair, Finance Officer, and Recording Secretary—in addition to the Host Agency Representative, six Regional Coordinators, six Members-at-Large, and the chairs of standing committees. The FLC Executive Board determines policy and direction, and establishes the annual budget.

The Executive Board is advised by the National Advisory Council (NAC), which includes advisors from the FLC’s user communities, i.e., industry, academia, state and local governments, and federal laboratories. The NAC Chair serves as an ad hoc member of the Executive Board, as does the FLC’s DC Liaison. The DC Liaison, who provides the Executive Board with information regarding T2 legislation, policy, and procedures.



Much of the work of the Consortium is planned and carried out by the following standing committees and their chairs. The chairs of the standing committees are selected and appointed by the Executive Board, and present their committees’ activities to the Executive Board:

- Awards Committee
- Communications Committee
- Education and Training (E&T) Committee
- Legal Issues Committee
- Planning and Policy (P&P) Committee
- Program Committee
- State and Local Government (S&LG) Committee

Through all parties involved, the FLC works together to fulfill its Congressional mandates and facilitate the transfer of federal technologies.

FLC Executive Board (effective October 1, 2014)

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Paul Zielinski
National Institute of Standards and Technology

VICE-CHAIR, PLANNING & POLICY COMMITTEE CHAIR

Dr. Mark Reeves
Oak Ridge National Laboratory

FINANCIAL OFFICER

Keith Quinn
Air Force Research Laboratory

RECORDING SECRETARY

Marianne Lynch, J.D.
Department of Commerce

HOST AGENCY REPRESENTATIVE

Dr. Courtney Silverthorn
Senior Interagency Policy Specialist
Technology Partnerships Office
National Institute of Standards and Technology

FAR WEST REGIONAL COORDINATOR

Brian Suh
Space and Naval Warfare (SPAWAR) Systems Center Pacific

MID-ATLANTIC REGIONAL COORDINATOR

Dr. Robert Griesbach
USDA-Agricultural Research Center

MID-CONTINENT REGIONAL COORDINATOR

Jack James
NASA Johnson Space Center

MIDWEST REGIONAL COORDINATOR

John Dement
Naval Surface Warfare Center - Crane Division

NORTHEAST REGIONAL COORDINATOR

Robert Braun
U.S. Army Armament Research, Development & Engineering Center

SOUTHEAST REGIONAL COORDINATOR

Dr. Ramona Travis
NASA Stennis Space Center

AWARDS COMMITTEE CHAIR

James Poulos J.D.
USDA-Agricultural Research Center



COMMUNICATIONS COMMITTEE CO-CHAIR

Sara Langdon
U.S. Army Medical Research and Materiel Command

COMMUNICATIONS COMMITTEE CO-CHAIR

Al Jordan
NASA Marshall Space Flight Center

EDUCATION & TRAINING COMMITTEE CHAIR

Sarah Bauer
Environmental Protection Agency

LEGAL ISSUES COMMITTEE CHAIR

James Kasischke, J.D.
Naval Undersea Warfare Center - Division Newport

PROGRAM COMMITTEE CHAIR

Kathleen McDonald
Los Alamos National Laboratory

STATE & LOCAL GOVERNMENT COMMITTEE CHAIR

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Directorate, Office of the Deputy Under Secretary of
Defense for Intelligence Strategy, Programs and Resources

Joseph "Jim" Zarzycki, P.E.
Former Director, Edgewood Chemical Biological Center

The FLC community is, above all, driven by the dedicated people who make up the federal laboratory system. From scientists to patent attorneys and licensing professionals, these individuals are committed to helping the U.S. continue to be the world leader in scientific and technological innovation.

- Paul Zielinski, FLC Chair





Prepared by the FLC Management Support Office in conjunction with FLC Chair Paul Zielinski.
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