



Federal Laboratory Consortium
for Technology Transfer

2020

ANNUAL REPORT
TO THE PRESIDENT AND CONGRESS

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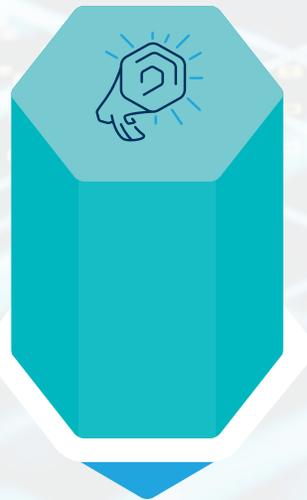
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FLC Organization

The Federal Laboratory Consortium for Technology Transfer (FLC) is the formally chartered, nationwide network of more than 300 federal laboratories, agencies, and research centers that fosters commercialization best practice strategies and opportunities for accelerating federal technologies from out of the labs and into the marketplace.

Through American taxpayers' investment in our federal laboratories' research and development (R&D) efforts, scientific and technological breakthroughs can take place and return dividends to our economy. New industries, businesses, and jobs are just a few of the benefits that result when a new innovation is brought to market, through a collaborative process called technology transfer (T2). The FLC is here to promote the organization, educate labs and their prospective partners about the T2 process, and facilitate the partnerships that drive these achievements. Accordingly, the FLC has updated its organizational structure to reflect those three key foundational pillars – Promote, Educate, and Facilitate.

In Fiscal Year 2020 (FY20), the FLC began implementing its five-year Strategic Plan, working closely with a full-time staff established under the cooperative agreement between AUTM and FLC that was announced at the end of 2019. AUTM is a nonprofit leader supporting the development of academic technology transfer and research that changes the world and drives innovation forward. For more information on the FLC, please visit www.federallabs.org. For more information on AUTM, visit www.autm.net.



PROMOTE

Actively promote availability, benefit, and value of federal laboratory assets through technology transfer (T2) to improve national economic prosperity and execution of lab missions.



EDUCATE

Provide progressive full spectrum education and training (E&T) and networking opportunities for federal T2 professionals and key internal stakeholders.



FACILITATE

Proactively engage and leverage partnerships that connect relevant private sector partners with individual federal laboratories to increase measurable outcomes.



Letter from the FLC Chair

2020 was another year of great impact for federal labs. The FLC continues to focus on its mission to increase the impact of federal technology transfer for the benefit of the U.S. economy, national security and society. To do so, this past year the organization has taken a more strategic approach to focus its efforts into three main pillars: Promote, Educate, and Facilitate. These areas support federal technology transfer through communication, education, and partnerships, respectively.

The FLC developed a five-year communications plan for more deliberate promotions to clearly communicate the value proposition to our audiences. Our 2020 education initiatives resulted in nearly doubled attendance for all virtual training. In addition, the FLC has established several key national and regional partnerships to improve federal lab connections within the private sector.

FY20 was a year of change. Implementation of the five-year Strategic Plan began with our new cooperative partner, AUTM, the global technology transfer association serving the academic community. AUTM staff handles most of the FLC's organizational daily activities so the Executive Board can work on mission-focused strategic initiatives—an arrangement that is already bearing fruit, as our audience is expanding and the quality of our programs is improving.

The pandemic converted all of FLC's in-person professional development training to virtual events, creating a broader audience. The FLC also developed a special news section highlighting federal labs' rapid responses in the fight against COVID-19. Nearly 700 articles generated more than 50K pageviews, and the database was linked with AUTM's site to inform and encourage collaborative COVID-19 response efforts among the federal, academic and private sectors.

In addition, the organization continued to modernize its procedures with bylaw changes voted upon by the membership to allow electronic voting and virtual meetings.

The FLC national and regional awards programs, the Planner, and Lab Tech in Your Life are essential for promoting federal lab success to a broad audience. High-quality submissions from member labs allow these products to fully demonstrate the value of federal research, development, and innovation and inspire future collaborations.

Despite the challenges faced by all federal labs during the pandemic, we received 87 nominations for the prestigious FLC National Awards and 71 excellent submissions for the 2021 edition of the very popular FLC Planner. We conducted a new paid media campaign for the Home edition of LabTech in Your Life while collecting new technologies for the next Airport edition, to be launched in 2021.

The exciting results from the first year of our 2020-2025 Strategic Plan implementation give us confidence that we are forging positive changes for our community.

This annual report outlines the efforts that our organization continues to make on behalf of our members, partners, and collaborators. In accordance with 15 U.S.C Section 3710(e)(6) and on behalf of the members of the FLC, I am pleased to present the FLC 2020 Annual Report to the President and Congress.

Respectfully,

A handwritten signature in blue ink, appearing to read "John Dement". The signature is stylized and fluid.

John Dement, FLC Chair

2020 by the Numbers

FEDERALLABS.ORG VISITORS (UNIQUE PAGE VIEWS)



MOST VISITED SECTIONS



SUCCESSES GALLERY

307

AWARD PROFILES AND SUCCESS STORIES

PANDEMIC PARTICULARS

COVID-19 NEWS

671

POSTS

NATIONAL AWARDS

10

Categories

87

Nominations

32

Winners

6

Agencies Represented

FLC REGIONAL MEETINGS

NORTHEAST

135

Registrants

MID-ATLANTIC

205

Registrants

MIDWEST AND SOUTHEAST

113

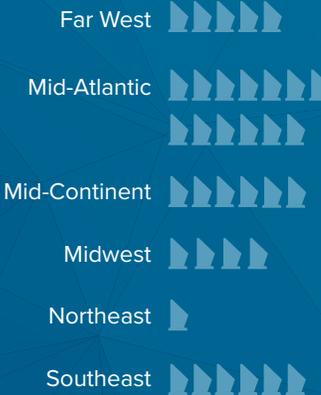
Registrants

FAR WEST AND MID-CONTINENT

135

Registrants

WINNERS BY REGION



*Some categories include multiple agencies and regions, so the total will not match the number of winning nominations.

SOCIAL MEDIA



1,208

Facebook likes
(+58% vs 2019)



1,194

LinkedIn followers
(+53%)



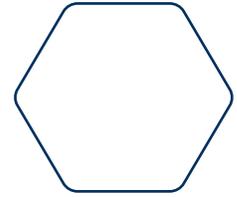
3,214

Twitter followers
(+54%)

WINNERS BY AGENCY



FLC NATIONAL MEETING AND AWARDS



National Meeting

Embracing unexpected opportunities

The COVID-19 pandemic necessitated shifting the 2020 National Meeting from its original April dates and the planned location of Portland, OR. Since federal travel restrictions persisted through the summer, the FLC took its premier event online from August 31 to September 3, 2020. The virtual format expanded participation, with a record-breaking 804 registrants. More than 68% of attendees reported they learned something new to do their jobs better.

PANDEMIC PARTICULARS

VIRTUES OF GOING VIRTUAL

Federal tech transfer professionals, their partners, and other stakeholders embraced the concept of a virtual National Meeting, with almost double the number of registrants as the prior year's in-person meeting.

The advantages are clear:

NO COST TO ATTEND

NO NEED TO TRAVEL

ACCESSIBLE FROM ANYWHERE

SESSIONS ARE EASILY RECORDED FOR LATER VIEWING

And so are the results:

RECORD NUMBER OF REGISTRANTS

434

2019 REGISTRANTS

807

2020 REGISTRANTS

MEETING HIGHLIGHTS

TRAINING SESSIONS

- **AUTM Essentials of Technology Transfer**

This course followed the lifecycle of invention disclosure—ultimately resulting in licensing—while highlighting the different perspectives, issues, and concerns of industry, academia, and government labs.

- **CRADA Workshop**

A cooperative research and development agreement (CRADA) is one of federal technology transfer's most important mechanisms. This course was a one-stop shop for everything CRADA.

- **Communicating Up, Down, and Across the Organization**

This hands-on workshop covered how to improve communication skills and put your best foot forward, as well as specific tools and strategies to build mutual understanding and connectivity with others.

KEYNOTE

- **Nuclear Technology: What it Takes to Go from New Idea to First Plant Deployment**

Derick Botha of NuScale Power discussed the NuScale concept for a new kind of nuclear power plant and the company's work with U.S. national laboratories to commercialize new technologies, including deployment of NuScale's Small Modular Reactor at the Idaho National Laboratory site.

PANEL DISCUSSIONS

- **How Agencies Decide Whether to Seek IP Protection for an Invention**

Representatives from a diverse set of agencies discussed the factors they consider when seeking intellectual property (IP) protection. While each agency's mission requires specific criteria, some factors may be common to many or even all agencies.

Panelists: Mojdeh Bajar of NIST, Linda Burger of NSA, Mary Monson of Sandia, and Brian Nakanishi of USDA ARS

- **Pandemic Particulars:**

- **Tech Transfer and Other Aspects of Federal Agencies' COVID-19 Response**

This panel discussion described how federal scientists and technology transfer professionals were working with patent, regulatory and public health communities, bringing their agencies' strengths and specialties to respond to the global pandemic.

Panelists: Kim Pham of DOD, Barney Graham of NIAID, Karin Ferriter of USPTO, and Clara Asmail of DOE

National Awards Highlights



ROOKIE OF THE YEAR

Jack L. Owsley III,
Air Force Research Laboratory
Sensors Directorate



LABORATORY DIRECTOR OF THE YEAR

Dr. Paul Kearns,
DOE Argonne National
Laboratory



OUTSTANDING TECHNOLOGY TRANSFER PROFESSIONAL

Jason Martinez,
DOE Sandia National Laboratories



HAROLD METCALF FLC SERVICE AWARD

Dr. Robert Griesbach,
USDA Agricultural
Research Service

The 2020 FLC National Awards included two new categories: the Impact Award and the Technology Transfer Innovation Award.

IMPACT AWARD

Honors FLC member laboratories and non-laboratory partners whose technology transfer efforts have made a tangible and lasting impact on the populace or marketplace.

TECHNOLOGY TRANSFER INNOVATION AWARD

Recognizes federal labs that successfully implemented innovative or unconventional technology transfer approaches that resulted in a significant increase in T2 activities.



14

NOMINATIONS

5

WINNERS

14

NOMINATIONS

5

WINNERS

DOC National Oceanic and Atmospheric Administration
"NOAA Expands Reach of Science On a Sphere"

DOD Uniformed Services University
"USU Work Helps Control Hendra, Nipah Viruses"

DOE Oak Ridge National Laboratory
"Catalyst Swaps CO2 for Ethanol and Cleaner Air"

DOE Sandia National Laboratories
"Home Test Helps Keep Male Infertility Private"

HHS Food and Drug Administration
"FDA Mobile App Promotes Focus on Patients"

USDA Agricultural Research Service
"ARS Innovation Fund Awards Millions for T2"

Naval Undersea Warfare Center, Division Newport
"Navy Event Champions Two-way Tech Transfer"

DOE Oak Ridge National Laboratory
"ORNL Scientists Compete for T2 Opportunities"

DOE Pacific Northwest National Laboratory
"Exploratory License Allows Industry Test Drives"

HHS National Cancer Institute
"NCI's T2 Training Benefits Lab and Postdocs"

FLC Regional Meetings And Awards

Celebrating successes amid uncertainty

For the first time, all FLC Regional Meetings were converted to a virtual format due to the pandemic and travel restrictions. Each region provided a robust regional program delivering content tailored to the needs and interests of its regions. Federal labs' ongoing response to the COVID-19 pandemic was reflected both in meeting sessions and in the themes of the tech transfer projects that won FLC Regional Awards.

NORTHEAST REGION MEETING

OCTOBER 6-7

MEETING HIGHLIGHTS

Keynotes:

"IP and Espionage"

Presented by Scott McGaunn

Federal Bureau of Investigation

"How to Succeed in Tech Transfer"

Presented by Valerie Larkin

NAVSEA Division Newport

Meet the Labs:

Army DEVCOM Armaments Center

Volpe National Transportation Systems

Army Engineer Research & Development Center

MIT Lincoln Lab

U.S. Coast Guard

Princeton Plasma Physics Lab

AWARDS

• Excellence in Technology Transfer

MIT Lincoln Laboratory

"MIT Lincoln Laboratory and partners enlist analog technology for complex computing challenges"

During the meeting, a panel of representatives from MIT Lincoln Laboratory and spin-off partner company Sync Computing discussed the award-winning project.

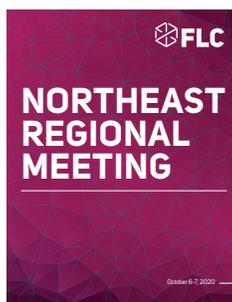
Participants:

Kevin Lefebvre, MIT Technology Transfer Office

Bill Herzog, MIT Lincoln Laboratory

Jeffrey Chau, Sync Computing

Suraj Bramhavar, Sync Computing



MIDWEST AND SOUTHEAST JOINT REGIONAL MEETING

OCTOBER 27-28

MEETING HIGHLIGHTS

Keynotes:

"Midwest Award Winner: A Closer Look"

Presented by Johnette Shockley

U.S. Army Corps of Engineers

"Southeast Award Winner: A Closer Look"

Presented by Gail Poulos

USDA Agricultural Research Service

AWARDS

Midwest Region:

• Interagency Partnership

USACE Construction Engineering Research Laboratory

"Collaborations and T2 drive use of USACE facilities

management software at NNSA and beyond"

• Excellence in Technology Transfer

USDA Agricultural Research Service

"USDA-led team's findings could help explain how agriculture can affect antibiotic resistance"

Southeast Region:

• Excellence in Technology Transfer

DOE Oak Ridge National Laboratory

"ORNL and licensee MVP join forces to make thermoset materials an option for large-scale 3D printing"

USDA Agricultural Research Service

"USDA and Renewable Nutrients partner to improve nitrogen recovery from livestock waste"



MID-ATLANTIC REGIONAL MEETING

NOVEMBER 10

MEETING HIGHLIGHTS

Keynote:

"Unleashing Innovation"
Presented by Mojdeh Bahar
National Institute of Standards
& Technology

Sessions:

- AI and the Patent Process
- Cultivating an Entrepreneurial Culture in Federal Labs
- **Pandemic Particulars:**
Federal Tech in the COVID-19 Response

AWARDS

- **Excellence in Technology Transfer**
NIH National Cancer Institute
"NCI's partnership with Adastral moves new brain cancer drug along the path to commercialization"
Army Medical Research & Development Command
"Patience, persistence, and creativity make USAMRDC's Body Cooling System a T2 success story"
- **Educational Institution and Federal Lab Partnership**
National Aeronautics and Space Administration
"NASA engineer's airborne remote-sensing innovation inspires nationwide educational network"
NIH National Center for Advancing Translational Sciences
"Seed funding and a start-up help NCATS-CCHMC cancer therapy cross preclinical Valley of Death"
- **Interagency Partnership**
DHS Chemical Security Analysis Center
Army DEVCOM Chemical Biological Center
National Institute for Occupational Safety and Health
"Three agencies collaborate to update respirator testing and ensure emergency responder safety"
- **State and Local Economic Development**
DOC National Institute of Standards and Technology
"NIST-TEDCO entrepreneurship program facilitates 11 new start-ups and \$2.7M in annual revenue"



FAR WEST AND MID-CONTINENT REGIONAL MEETING

NOVEMBER 18-19

MEETING HIGHLIGHTS

Collaboration Forums:

Unmanned Aerial Systems
for Defense and Agriculture
Panelists from USDA, NAVFAC,
and TradeSpace

AWARDS

Far West Region:

- **Outstanding Commercialization Success**
DOC National Oceanic and Atmospheric Administration
- **Outstanding Partnership**
DOE Lawrence Livermore National Laboratory
USDA Agricultural Research Service
National Aeronautics and Space Administration
- **Outstanding Technology Development**
DOE Sandia National Laboratories
Naval Facilities Engineering Systems Command
DOE Lawrence Livermore National Laboratory
- **Outstanding Commercialization Success**
National Oceanic and Atmospheric Administration

Mid-Continent Region:

- **Excellence in Technology Transfer**
DOE Sandia National Laboratories
USDA Agricultural Research Service
- **Notable Technology**
National Aeronautics and Space Administration
DOE National Renewable Energy Laboratory
DOE Los Alamos National Laboratory
- **Partnership**
DOE Sandia National Laboratories
USDA Agricultural Research Service
DOE National Renewable Energy Laboratory
DOE Idaho National Laboratory
DOE National Energy Technology Laboratory
- **Regional Technology:**
DOE Sandia National Laboratories
- **Tech Transfer Professional of the Year**
DOE Sandia National Laboratories



PANDEMIC PARTICULARS

AWARD-WINNING REGIONAL TECH TRANSFER PROJECTS WITH A COVID-19 FOCUS

DOE Lawrence Livermore National Laboratory
"LLNL and partners take COVID-19 ventilator technology from design to EUA in just three months"

National Aeronautics and Space Administration
"COVID-19 pandemic inspires modifications to human-powered ventilator developed for space missions"

DOE Sandia National Laboratories
"Sandia's regional COVID-19 response efforts address medical and economic effects of pandemic"

Success in Snapshots

An album of innovation, collaboration, and contributions

The FLC Planner is a 14-month calendar illustrating federal technology transfer achievements. This visually appealing package helps promote those successes to the FLC community, government offices and the general public.



DHS Technology Security Laboratory
Vapor Phase Explosive Threat Detection

NASA Goddard Space Flight Center
Miniaturized Modulated X-ray Source



PANDEMIC PARTICULARS



Lawrence Livermore National Laboratory (LLNL)

Additively Manufactured Nasal Swabs

To address a shortage of nasal swabs for COVID-19 testing, LLNL experts 3D-printed swabs from a biocompatible, surgical-grade resin and tested them in the Advanced Manufacturing Laboratory before making them available to medical providers.

USDA Agricultural Research Service
Rain Enhancement Technology



Lawrence Berkeley National Laboratory
Innovative Grid Burner



Los Alamos National Laboratory
Spectroscopic Detection of Nerve Agents



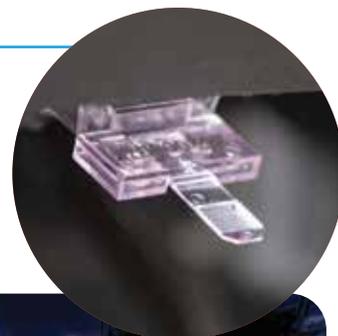
PANDEMIC PARTICULARS



Sandia National Laboratories
Helping Protect Medical Professionals

A Sandia team rapidly modified existing aerosol and filtration systems, originally developed for nuclear nonproliferation work, to test materials that could be manufactured into N95-like respirators for medical professionals on the COVID-19 front lines.

National Security Agency
Protecting Ports in Vehicles



National Oceanic and Atmospheric Administration
Remotely Operated Vehicle Deep Discoverer

National Renewable Energy Laboratory
Thermoplastic Tidal Power Turbine Blades



Federal Aviation Administration
Cockpit Simulation Laboratory

National Institute of Standards and Technology
3D-Printed Materials Made for Impact



National Energy Technology Laboratory
Characterization of Solid Oxide Fuel Cells

PANDEMIC PARTICULARS



Oak Ridge National Laboratory (ORNL)
Blow Molding Technology

ORNL researchers discovered that plastic preforms used to make Coca-Cola bottles met the specifications for test tubes used in COVID-19 test kits. This led to Coca-Cola rapidly producing millions of the test tubes to address a global shortage.



PANDEMIC PARTICULARS

PROMOTIONAL PIVOTING

- Debuting an Events Newsletter to maintain awareness in the FLC community of webinars and other online education and training opportunities, to help federal laboratory professionals stay informed despite the cancellation or postponement of most in-person events.
- Launching a COVID-19 news database to highlight the contributions of federal labs to pandemic response efforts. A total of 691 COVID-related stories were collected between March and December, and the database is still growing in 2021. Federal technology transfer helped fight the pandemic on many levels, which included:

Addressing shortages of equipment and hospital beds



Sandia National Laboratories partnered with New Mexico small businesses to develop and test new combinations of materials for use in N95-like respirators for COVID-19 responders.

Developing tests, treatments and vaccines



National Institute of Allergy and Infectious Diseases

A team of researchers from the National Institute of Allergy and Infectious Diseases,

the University of Texas at Austin and Ghent University in Belgium were one of the first to identify that antibodies from llamas could be used to help develop COVID-19 treatments.

Creatively structuring licensing agreements



The Naval Surface Warfare Center, Crane Division, introduced a royalty-free licensing program to help make pandemic-specific technologies rapidly available and to encourage commercialization of other technologies to bolster the national economy.

Promoting Technology Transfer

The FLC seeks to increase awareness and engagement within the federal lab community, among prospective partners from industry and academia, and with the general public. Successful promotional efforts are key to the FLC achieving its goal of becoming the premier federal technology transfer organization, as outlined in the Strategic Plan.

To that end, 2020 was about proactively developing promotional strategies. But 2020 was not just about plans. Thanks to the COVID-19 pandemic, it was also about pivoting.

PROMOTIONAL PLANS

- A five-year communications plan that, along with the Strategic Plan, is being used to build a strategic roadmap for the organization.
- Plans to develop and gauge the success of the second edition of Lab Tech in Your Life, the popular interactive online experience that showcases technologies that have moved from federal labs to everyday life.

The initial version of Lab Tech in Your Life was focused on a home environment, and the second version—which launched in 2021—is focused on an airport environment.

A paid media campaign was launched to promote the home version to the public and to provide a baseline against which to measure the success of the airport version.



Educating Technology Transfer Professionals

The FLC’s goal is to provide high quality professional development for the federal technology transfer community. FLC training courses, conferences and webinars are focused on providing a well-rounded curriculum to meet the needs of the entire federal technology transfer community from novice to expert.

The FLC professional development team and committee members have made significant progress on the organization’s educational strategic initiatives, including developing a clearinghouse of education and training as well as information for an executive education package.

The FLC continues to enhance its online educational offerings to provide convenient professional development opportunities for all levels of technology transfer professionals throughout the year. The virtual format of the 2020 National Meeting (see page 6) and the four 2020 Regional Meetings (see page 8) made it possible for registrants to view session recordings for up to one year after an event—significantly adding to the educational value of those presentations.

In addition, the FLC produced a number of training webinars in 2020 that will remain available on the FLC website for free on-demand viewing, even for individuals who did not register for the initial event. These include a State Science and Technology Institute (SSTI) webinar on communicating technology transfer concepts and a Department of Defense webinar series that has continued in 2021.

DOD Technology Transfer Training Webinar Series: 2020 Installments

October 21:

Technology Transfer Training Working Group

November 4:

Technology Transfer First Timers’ Overview Session

December 3:

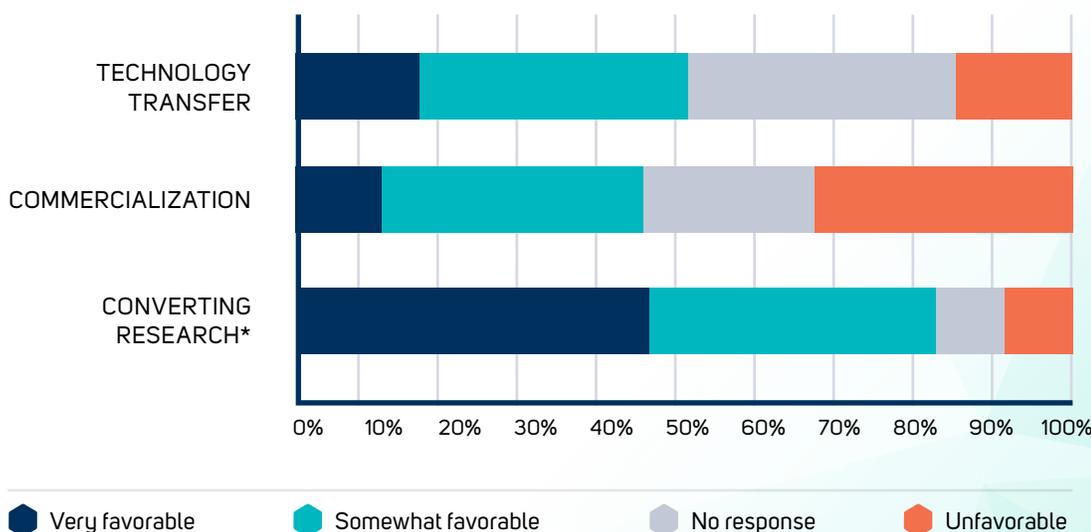
Legislative Changes Impacting Technology Transfer

WHAT’S IN A NAME? PUBLIC PERCEPTIONS OF ‘TECHNOLOGY TRANSFER’

Two representatives from the State Science and Technology Institute (SSTI) presented results from SSTI’s 2020 National Innovation Language Study, drawing insights into how the vocabulary of tech transfer and innovation policy is received and translated by the public.

For example, the SSTI study asked individuals whether they thought certain terms used to describe moving innovations from lab to market were favorable. More than 80% of respondents thought “converting research into jobs and businesses” was favorable or very favorable, while “commercialization” and “technology transfer” were similarly rated by only about half of the respondents.

When we talk about putting research to work...



* = full text was “converting research into jobs and businesses”

Data courtesy of SSTI

FACILITATE

Facilitating Technology Transfer Activity



In 2020, the Facilitate Pillar of the FLC Strategic Plan launched its activities to proactively engage and leverage collaborators and partners to assist connections between individual federal laboratories and the private sector.

The year's Facilitate highlights included:

- Developing a much-needed census of all federal laboratories
- Evolving the regional programs for greater efficiencies
- Preparing a Partnership Policy and Memorandum of Understanding for the organization
- Initiating discussions with several potential national and regional partners
- Starting the process of reinventing FLC Business to meet the changing needs of federal laboratories

TECHNOLOGY FOCUS AREA NATIONAL AWARD SPOTLIGHT

"CRADAs drive sensor-based irrigation solution"

For the U.S. Department of Agriculture's Agricultural Research Service (USDA ARS), the decade-long quest for an autonomous technology-based solution to the irrigation challenge of an increasingly limited water supply was made possible by multiple cooperative research and development agreements (CRADAs) between ARS and key industry players.

The result was the proprietary Irrigation Scheduling Supervisory Control and Data Acquisition (ISSCADA) system – a wireless sensor network of noncontact crop infrared thermometers (IRTs) to replace the miles of wire previously required to scan a crop for water stress.



SBIR ENGAGEMENTS

The Small Business Innovation Research and Small Business Technology Transfer (SBIR and STTR) programs in 2020 offered a wealth of opportunities for facilitating partnerships. The FLC Facilitate team held 63 meetings to connect with prospective strategic partners.



SBIR WEEK IN THE MIDWEST
10 meetings



SBIR WEEK IN THE SOUTH
9 meetings



SBIR WEEK IN THE SOUTHEAST
12 meetings



SBIR WEEK IN THE ROCKIES
2 meetings

SBIR/STTR Innovation Summit 30 meetings

2020 Financial Statement

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 NIST at the beginning of each fiscal year and then transferred by NIST to the FLC to conduct its activities.

AGENCY CONTRIBUTIONS TO THE FLC FOR FISCAL YEAR 2020

AGENCY	AMOUNT PAID
Department of Agriculture	\$128,696
Department of Commerce	\$90,608
Department of Defense	\$1,706,424
Department of Energy	\$832,808
Department of Health and Human Services	\$746,368
Department of Homeland Security	\$35,752
Department of Interior	\$55,520
Department of Transportation	\$36,808
Department of Veterans Affairs	\$119,440
Environmental Protection Agency	\$20,408
National Aeronautics and Space Administration	\$427,600
National Science Foundation	\$24,360
Total	\$4,224,792

SCHEDULE OF REVENUES AND DISBURSEMENTS

Revenues	\$4,224,792
Disbursements	\$3,395,000
Cooperative Agreement	\$3,200,000
NIST Administrative Charges	\$195,000



Federal Laboratory Consortium
for Technology Transfer

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