Budgets and Some Laboratory Business

Community Advisory Council
June 14, 2018

David Manning • George Clark
Kevin Fox • Erick Hunt
Agenda

• Overview of the Federal Budget Cycle: David Manning
• Budget Update: George Clark
• Procurement & Contracts: Kevin Fox
• Strategic Partnerships: Erick Hunt
The Federal Budget Process

**Budget ‘Resolution’ Process**
(sets budget direction)

- President’s Budget Request
  - First Monday in February
  - House Budget Committee
  - Full House Floor
  - Conference Committee
  - Full House Floor

**Budget ‘ Appropriations’ Process**
(yields a budget, signed into law)

- Budget Allocations from Resolution
  - Mid-May
    - House Appropriations Subcommittee
    - Full House Floor
    - Conference Committee
    - Full House Floor

  - June/July
    - Senate Appropriations Subcommittee
    - Full Senate Floor
    - Conference Committee
    - Full Senate Floor

  - July/Aug
    - House Appropriations Committee
    - Full House Floor
    - Conference Committee
    - Full House Floor

  - July/Aug
    - Senate Appropriations Committee
    - Full Senate Floor
    - Conference Committee
    - Full Senate Floor

  - September
    - House Floor
    - Senate Floor

  - Before October 1
    - President’s Approval
Primary Budget-process Influencers

DOE Leadership
(Secretary, CFO, others)

Assistant Secretaries and Deputy Assistant Secretaries

DOE Program Managers

Office of Management & Budget Leadership

Congressional Members

Congressional Committees

Congressional Staff

White House Political Office

President

Vice President

Office of Management & Budget Analysts
Budget Update

George Clark
Chief Financial Officer, Associate Lab Director for Business Services
Congressional Budget Process
(Includes President’s Budget Request)

Figure 1: Composition of the FY 2018 Budget
Total Outlays = $4.1 trillion
(outlays in billions of dollars)

Source: Budget of the United States Government FY 2018. © 2017 AAAS

DOE Office of Science FY18 Budget Proposals
(% change from FY17 enacted)

- Office of Science Total
- Bio. & Environ. Research
- Nuclear Physics
- Fusion Energy Sciences
- High Energy Physics
- Basic Energy Sciences

American Institute of Physics | aip.org/fyi
Current Status

FY 2018 Congressional budget and funding update

• House and Senate passed a federal funding bill and the President signed into law the Omnibus bill in March 2018, avoiding a government shutdown, and funding the government through September 2018.

• Omnibus bill language increases DOE Office of Science’s budget to $6.2B (+15%) and contained increases for Brookhaven—a welcomed relief versus initial Presidential Budget Request reductions of -15% to -17%.
  • Nuclear Physics: +$13M.
  • High Energy Physics: +$3M.
  • Basic Energy Sciences funding includes Center for Functional Nanomaterials ($21M) and long-term stewardship ($7M) support.
  • Infrastructure (GPP and SLI) funding:
    • Funding for biolabs $4.9M, B801 hot cells $8.5M, core facility revitalization $30M.
Current Status (continued)

Latest News: Draft FY 2019 House spending bills boost DOE budget

• Draft spending bills advanced recently in the House, offering initial indications of the outlook for federal science funding in FY 2019.

• The picture emerging is largely positive, with House Appropriators seeking increases for the DOE Office of Science.

• Proposed increase: 5% to $6.3 Billion.

• Note: Design funding for Science and User Support Center (SUSC) of $2M.
FY 2017 Funding Profile

Key figures
Lab Operating Funding: $581.7M
DOE Funding: $517.3M
DOE as % Total Lab Funding: ~89%
SPP (Non-DOE/Non-DHS) Funding: $45.9M
DHS Funding: $2.7M
SPP/DHS as % Total Lab Funding: ~8%

BNL is primarily funded—approximately 85%—by the Office of Science

Acronyms decoded
ASCR: Advanced Scientific Computing Research
BES: Basic Energy Sciences
BER: Biological & Environmental Research
DHS: Department of Homeland Security
DOE: Department of Energy
EE: Efficiency and Renewable Energy
HEP: High Energy Physics
NE: Office of Nuclear Energy
NNSA: Nonproliferation & National Security
NP: Nuclear Physics
S&S: Safeguards and Security
SPP: Strategic Partnership Projects
WDTS: Workforce Development for Teachers and Scientists
Supporting local businesses whenever possible, the Lab spent more than $119M in FY 2017 on goods and services; $13.5M of that with Long Island companies.

Note: Not included in chart is DOE FCR of $700K—the fee DOE charges other agencies and companies for use of its facilities.
New York State Support

Research & Development at Brookhaven: $80M

- National Synchrotron Light Source II
  - High-energy X-ray (HEX) Beamline: $25M
  - Cryogenic Electron Microscope (CryoEM): $15M
- RHIC and Electron Ion Collider
  - Cornell-Brookhaven Energy-Recovery-Linac Test Accelerator (CBETA): $25M
- Computational Sciences Initiative
  - Center for Data-Driven Discovery (C3D): $15M

Other Positive News:
- Brookhaven Train Station: $20M
Summary: Significant Impacts For the Local Community

• The Lab strengthens Long Island’s position as a center of innovation in sustainable energy, biotech, and other fields crucial to the growth of New York State’s economy.

• Lab employee salaries, wages, and fringe benefits accounted for approximately $375 million, or 66% of its total budget.

• Supporting local and state businesses whenever possible, the Lab spent more than $119 million in 2017 on goods and services, including $13.5 million with Long Island companies.

Fast Facts
• The only multidisciplinary national lab in the Northeast
• One of New York State’s largest scientific research institutions
• More than 2,500 employees
• 3,000 visiting facility users
• 2,000 guest researchers
• Fiscal year 2017 budget of $582M
Procurement & Contracts
(Doing Business with Brookhaven)
Kevin Fox
Procurement & Property Management
Interim Division Head
Business Volume
FY 2017 Procurement Commitments

Total $119,192,187
Total New York State $26,079,345
Nassau County $1,507,402
Suffolk County $12,045,559
What Does Brookhaven Buy?

Brookhaven buys almost anything a small town buys—and scientific equipment too:

- High-tech scientific equipment (microscopes, beamlines)
- Apparel/safety/misc. equipment
- Audio-visual equipment
- Chemicals
- Communications equipment
- Computers & peripherals—all types
- Construction, paving
- Copier maintenance
- Document shredding
- Electronics equipment
- Janitorial/plant equipment
- Service, maintenance equipment
- Hardware, tools, and fasteners
- Office furniture
- PC boards, printed circuit boards, electronics fabrication
- Raw metals
- Laboratory, medical, and office supplies
- HVAC, electrical, and carpentry supplies
- Wireless (RF) equipment

Note: We rarely buy some services.
- Advertising and public relations
- Insurance services
- Automotive vehicles
- Legal and medical services
- Food
- Military products/services
- Healthcare services
- Photography services
- Illegal products
- Printing
- Information technology services
- Web design and hosting

We have some of these capabilities in house, others we don’t buy at all.
What Do I Do Next?

Sign up for FedBizOpps “Watch List”
• Automatic notifications of government and BNL solicitations www.fedbizopps.gov
  (Note: You can filter notifications for Brookhaven only)

Brookhaven Lab Contact
• David Paveglio, Deputy Manager, Procurement & Property Management Division
dpaveglio@bnl.gov

Monitor
• BNL Small Business website
  (http://www.bnl.gov/ppm/SDB/)

If you know someone who may be interested in these opportunities, please pass on this info (and feel free to take a picture of this slide).
Partnering with Brookhaven

Erick Hunt
Manager, Research Partnerships
Two Ways to Partner With Brookhaven

Partner develops BNL IP into product
(contact: Poorni Upadhya)

Contract

Partner leverages BNL to develop its own IP, technology or product
(contact: Erick Hunt, ehunt@bnl.gov)

License

Partner develops BNL IP into product
(contact: Poorni Upadhya)
Types of Partnering Agreements

- Cooperative Research and Development Agreement (CRADA)
- Funds-In Agreement
- Strategic Partnerships Projects (SPP)
- Interagency Agreement (IAG)
- Agreements for Commercializing Technology
- Technical Services Agreement (TSA)
Fuel Cell Testing

Funding for Testing of Solid Oxide Fuel Cells

- Setup testbed for EU fuel cells (extreme high efficiency 60% fuel to electricity)
  - Short term working with: BlueGen, HP Energy, Con Edison (Microsoft)
  - Long-term potential on performance testing for residential/commercial/data center applications/military facilities
    (Con Edison, NYSERDA, National Grid & DoD)
The Bottom Line

• The federal budget process is complex and two-fold, with “resolution” and “appropriations” processes.

• Our prospects for FY 2018 and FY 2019 are brighter (and we continue to monitor).

• The Laboratory purchased $13.5 million in goods and services from companies on Long Island in FY 2017. There are several ways to explore opportunities to do business with Brookhaven.

• Thanks to several processes, the Lab is open for partnering on select research efforts.