Welcome !!!

- to the Washington DC Area
- to National Institute of Standards and Technology
- to the Invitational Forum on “Innovations in STEM: National Priorities and NIST”
Non-regulatory agency within U.S. Department of Commerce

Founded in 1901 as National Bureau of Standards

Unique Mission within the Federal Government

to promote U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology in ways that enhance economic security and improve our quality of life

Article I, Section 8: The Congress shall have the power to ... coin money, regulate the value thereof, and of foreign coin, and fix the standard of weights and measures
NIST is a world class scientific and technical agency uniquely focused on driving innovation and economic competitiveness.

We drive U.S. innovation and economic competitiveness through:

- a world-leading scientific research program -- measurement, technology, and standards solutions to our stakeholders
- a nation-wide network of centers -- focused on strengthening our nation’s small and medium manufacturers
- a program in performance excellence -- used to assess the nation’s companies and organizations which is recognized, utilized, and emulated around the world
Major Assets

• ~3,000 Employees;
  1800 Scientists and Engineers
• ~3,500 Associates
• ~400 NIST Staff on ~1,000 national and international standards committees

NIST-at-a-Glance

NIST has two main campuses

Gaithersburg, MD
62 buildings; 578 acres

Boulder, CO
26 buildings; 208 acres

+ two sites housing NIST radio stations:
  • Ft. Collins; 390 acres
  • Kauai; US Navy 30 acre site

and six joint institutes

• JILA – amo physics
• JQI – quantum science
• IBBR – adv. therapeutics
• HML – marine bioscience
• NCCoE – cybersecurity
• CHiMaD – “materials by design”

NIST FY 2014 Congressional Appropriations
$850 M

Plus
~ $120 M from other Government Agencies
~ $50 M for other reimbursable services
NIST-at-a-Glance

Major Assets
- ~3,000 Employees;
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Total from U.S. Academia: 1649
  HBCUs: 27
  Other MSIs: 425

NIST FY 2014 Congressional Appropriations
$850 M

Plus
~$120 M from other Government Agencies
~$50 M for other reimbursable services
Working with NIST

- NIST has several means for collaborations with academia
  - Measurement Science and Engineering Grants
  - Postdoctoral Research Associates
  - Use of “User Facilities”
  - Summer Undergraduate Research Fellowships (SURF)
  - Other Student Appointments (Graduate and Undergraduate)
  - Guest Researchers and Faculty Appointments
  - IPAs
  - Scientist-to-Scientist Collaborations

Special Invitations . . .

- Webinars
  - How your students can apply for the NIST Summer Undergraduate Research Fellowship (SURF) Program
  - How to apply for Measurement Science and Engineering Grants
- VIP Tours to NIST
  - To visit NIST facilities, meet selected staff scientists, and learn more details of various programs which might facilitate effective scientist-to-scientist interactions and collaborations
Monday, November 3, 2014

Registration and Welcome
7:45  Registration  Green Auditorium

8:30  Welcome to NIST  Green Auditorium
Willie E. May, NIST
Associate Director for Laboratory Programs
Acting Director and Acting Under Secretary of
    Commerce for Standards and Technology

8:45  Welcome to the Symposium
George Cooper, White House Initiative on HBCUs,
Executive Director

8:55  Welcome to the Symposium
Alejandra Castillo, Minority Business Development Agency (MBDA)
Executive Director
Session I  9:05am  NIST and US National Priorities
          Jason Boehm, NIST Program Coordination Office

10:00am  Mid-Morning Break  Registration Area

Session II  10:30am  NIST and US National Priorities
                 Advanced Manufacturing
                 Cybersecurity
                 Advanced Communications

12:00pm  Lunch – On Your Own  NIST Cafeteria

Session III  1:00pm  NIST and US National Priorities
                   Forensics
                   Disaster Resilience
                   Healthcare & Bioscience

2:30pm  Afternoon Break  Registration Area

Session IV  3:00pm  NIST Student and Faculty Opportunities
                    Brandi Toliver, NIST International and Academic Affairs Office

Session V  4:00pm  Poster and Networking Session

6:00pm  Meet Buses to Depart NIST and Return to Hotel
## Session VI
8:30am  Lab-to-Market and Entrepreneurship  Green Auditorium

10:00am  Mid-Morning Break  Registration Area

10:15am  Lab-to-Market and Entrepreneurship - Cont'd

11:30am  Proceed to Tour 1

### Tour I

11:45am  Facility Tour - Center for Nanoscale Science and Technology

12:30pm  Lunch – On Your Own  NIST Cafeteria

1:45pm  Break; Proceed to Bus for NCNR

### Tour II

2:00pm  Facility Tour - NIST Center for Neutron Research

2:45pm  Return to Administration Bldg.

2:45pm  Afternoon Break  Registration Area

### Closing
3:30pm  Learned Outcomes

3:30pm  Meet Buses to Depart NIST and Return to Hotel
Thanks for Your Attention

Questions and Comments?