

“Innovations in Science, Technology, Engineering, and Math: National Priorities and NIST”



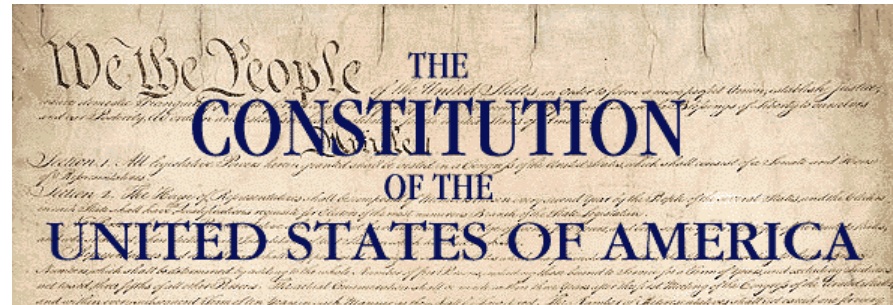
3-4 November 2014

Welcome !!!

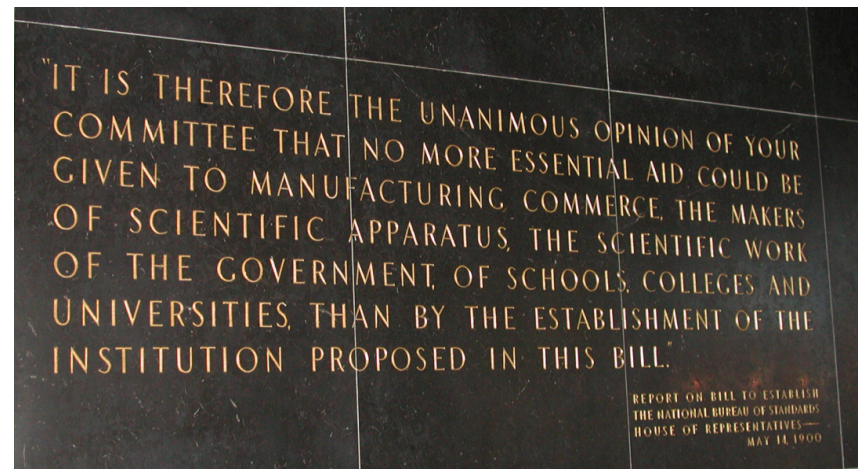
- *to the Washington DC Area*
- *to National Institute of Standards and Technology*
- *to the Invitational Forum on “Innovations in STEM: National Priorities and NIST”*

National Institute of Standards and Technology

- Non-regulatory agency within U.S. Department of Commerce
- Founded in 1901 as National Bureau of Standards



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*



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

NIST – Who We Are and What We Do

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:

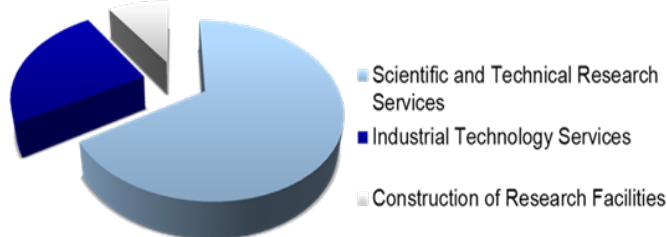
- **a world-leading scientific research program** -- measurement, technology, and standards solutions to our stakeholders
- **a nation-wide network of centers** -- focused on strengthening our nation's small and medium manufacturers
- **a program in performance excellence** -- used to assess the nation's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

NIST-at-a-Glance

Major Assets

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

NIST FY 2014 Congressional Appropriations \$850 M



Plus

- ~ **\$120 M** from other Government Agencies
- ~ **\$50 M** for other reimbursable services

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-at-a-Glance

Major Assets

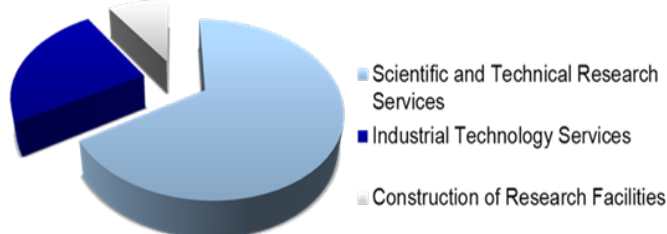
- ~ **3,000 Employees**;
1800 Scientists and Engineers
- ~ **3,500 Associates** 
- ~ 400 NIST Staff on ~1,000 national and international standards committees

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

“Innovations in Science, Technology, Engineering, and Math: National Priorities and NIST”

Agenda

Monday, November 3, 2014

Registration and Welcome

- | | | |
|-------------|---|-------------------------|
| 7:45 | Registration | Green Auditorium |
| 8:30 | Welcome to NIST
Willie E. May, NIST
Associate Director for Laboratory Programs
Acting Director and Acting Under Secretary of
Commerce for Standards and Technology | Green Auditorium |
| 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 | |

“Innovations in STEM: National Priorities and NIST”

Agenda - continued

Monday, November 3, 2014 - continued

- 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**

“Innovations in STEM: National Priorities and NIST”
Agenda - continued

Tuesday, November 4, 2014

<u>Session VI</u>	8:30am	Lab-to-Market and Entrepreneurship	Green Auditorium
	10:00am	<i>Mid-Morning Break</i>	<i>Registration Area</i>
	10:15am	Lab-to-Market and Entrepreneurship- Cont'd	
	11:30am	<i>Proceed to Tour 1</i>	
<u>Tour I</u>	11:45am	Facility Tour - Center for Nanoscale Science and Technology	
	12:30pm	<i>Lunch – On Your Own</i>	<i>NIST Cafeteria</i>
	1:45pm	<i>Break; Proceed to Bus for NCNR</i>	
<u>Tour II</u>	2:00pm	Facility Tour - NIST Center for Neutron Research	
	2:45pm	<i>Return to Administration Bldg.</i>	
	2:45pm	<i>Afternoon Break</i>	<i>Registration Area</i>
<u>Closing</u>	3:30pm	Learned Outcomes	
	3:30pm	<i>Meet Buses to Depart NIST and Return to Hotel</i>	



Thanks for Your Attention

Questions and Comments?

