

**N3C3:  
NIST – NOAA – NASA Collaborations  
for Climate Change**

(Virtual Linking of efforts for calibrations for  
climate change)

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## Proposed N3C3 WEB Portal at NIST

- NIST is currently reorganizing its WEBSITE
  - from purely organizational structure
  - to organizational + Subject / Topic structure
- Proposal for a N3C3 portal in the main page of NIST WEBSITE under Environment / Climate

## N3C3 WEB Portal

(Also provides Virtual Links to NOAA and NASA websites)

Goal: Easy access to satellite sensor radiometric calibration related information.

Contents: Covers optical & microwave sensors

- Proceedings of workshops, internal reports, articles on calibration methodologies, best practices and issues
- Adopted Pre-launch and post-launch calibration methodologies and lessons learned for sensors past, present and those under development.
- NIST data on components for calibrations of interest
- **Links to the CEOS CALVAL portal under Methods**
- **Links to NASA EOS and NOAA portals on sensors and their calibration issues**

# CEOS [CalVal Home](#)

## [Access to data](#)

- [Satellite](#)
- [In-Situ/Reference](#)

## [Instruments](#)

## [Sites](#)

## [Tools](#)

- [Software Tools](#)
- [Software Services](#)

## [Methods](#)

- [Calibration Methods](#)

- NIST-NOAA-NASA (N3C3) Portal

## [Projects](#)

## [Documents](#)

- [Workshops](#)

## [Information](#)

- [About](#)
- [How to use the Portal](#)
- [Software Version](#)
- [FAQ](#)

• **NIST-NOAA-NASA (N3C3) Portal**

QuickTime™ and a  
decompressor  
are needed to see this picture.

We are seeking NOAA/ NESDIS/ GSICS Input

- Comments and suggestions
  - Contacts at NOAA

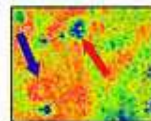
## Subject Areas

- [Bioscience & Health](#)
- [Buildings | Fire Research](#)
- [Chemistry | Math | Physics](#)
- [Electronics & Telecommunications](#)
- [Energy](#)
- [Environment](#)
- [Information Technology](#)
- [Manufacturing](#)
- [Materials Science](#)
- [Measurements & Standards](#)
- [Nanotechnology](#)
- [Neutron Research](#)
- [Public Safety & Security](#)
- [Quality](#)
- [Transportation](#)

### Did You Know ...

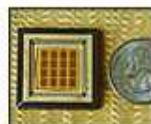
- [Fact of the Day](#)
- [NIST Impacts](#)
- [Awards to NIST](#)

## News

[RSS Feeds](#)

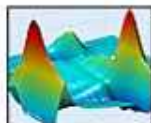
### Speed Bumps Less Important Than Potholes

For electrical charges racing through graphene, occasional hills and valleys are no big deal, but the potholes—they're killers. [more ...](#)



### First Nanosoccer Games

Imagine a mechanical David Beckham six times smaller than an amoeba playing with a "soccer ball" no wider than a human hair. Purely science fiction? Not anymore. [more...](#)



### Electronic 'Crowd Behavior' Revealed in Semiconductors

Like crowds of people, microscopic particles can act in concert under the right conditions. [more ...](#)

[see all news](#)

## Events

August 7-8, 2007

Federal Computer Security Program Managers' Forum Annual OffSite Meeting

August 07-10, 2007

NIST Laser Measurements Short Course

August 21-22, 2007

NIST Workshop on Materials Test Procedures for Hydrogen Pipelines

[see all events](#)

## NIST Most Popular

- [Chemistry Web Book](#)
- [Computer Security Resource Center](#)
- [Employment](#)
- [Fundamental Physical Constants](#)
- [Standard Reference Materials](#)
- [more ...](#)

## Products and Services

- [Calibrations](#)
- [Databases](#)
- [Facilities](#)
- [Funding](#)
- [Laboratory Accreditation \(NVLAP\)](#)
- [Multimedia/Images](#)
- [Patents/Licensing](#)
- [Publications](#)
- [Research Library](#)
- [Standard Reference Materials](#)
- [Weights and Measures](#)
- [more ...](#)

## Programs/Projects

Laser Cooling of Erbium Atoms

Nanophotonics and Nanoplasmonics Program

Microscopic Magnetic Devices

Nanomanufacturing

Nano-Structures for CD and Interconnect Metrology

Micro-Nano-Technology (MNT)

Nanobiotechnology

Nanoelectronic Device Metrology

>> [see all nanotechnology programs and projects ...](#)

## Publications

1. Theory of Spin Transfer Torque
2. Scattering and Interference in Epitaxial Graphene
3. Magnetic Properties of Co/GaAs
4. Current-Hysteretic Low Frequency Oscillations in Spin Transfer Nanocontacts
5. Adiabatic Domain Wall Motion and Landau-Lifshitz Damping
6. Single Molecule Mass Spectrometry in Solution Using a Solitary Nanopore
7. Identification of the Dominant Precession Damping Mechanism in Fe, Co, and Ni by First-Principles Calculations
8. Nanocrystal-based biomimetic system for quantitative flow cytometry
9. Manipulation of the Vortex Motion in Nanostructured Ferromagnetic/Superconductor Hybrids
10. Computational Models of the Nana Probe Tip for Static Behaviors

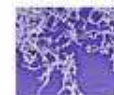
>> [see all nanotechnology publications ...](#)

## Images/Multimedia



**VIDEO**

Synchronized Nano-oscillators



Carbon Nanotube Purity



Advanced Measurement Laboratory



Magnesium Oxide Dice

>> [see all nanotechnology images/multimedia ...](#)

## Facilities



**The Nanofab**, part of NIST's Center for Nanoscale Science and Technology, provides its users with state-of-the-art equipment, expert training, and a high level of flexibility

>> [see all nanotechnology facilities ...](#)

## Products and Services

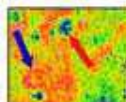
xxxxxx

## News and Events



### NIST Demos Industrial-Grade Nanowire Device Fabrication

In the growing catalog of nanoscale technologies, nanowires have attracted a great deal of interest for their potential to build unique atomic-scale electronics. **more ...**



### Speed Bumps Less Important Than Potholes

For electrical charges racing through graphene, occasional hills and valleys are no big deal, but the potholes—they're killers. **more ...**

**Upcoming Talk, Dec. 7, 2007:** Coupling Nanomechanical Motion to Electromagnetic Fields through the Casimir Effect and Surface Evanescent Waves

>> [see all nanotechnology news and events ...](#)