

# NIST

## Greenhouse Gas & Climate Science Measurements

**Date:** Monday, August 11, 2014

**Location:** NIST Boulder, Room 1-1107 with VTC to Gaithersburg 101/B111

### Program Areas

1. Stationary/Point GHG Emission Source Metrology
2. Distributed GHG Source Metrology
3. GHG Standards and Metrology Tools
4. Climate Science Measurements - Advanced Satellite Calibration Standards
5. Black Carbon Aerosol Measurement Science

*August 11 (Monday) Boulder Rm 1-1107*

Time	Title	Speaker
8:00 AM	Gathering and Coffee	
8:15 AM	Overview and Programs Sensor Science Division (PML) Quantum Electronics and Photonics Div (PML) Electromagnetics Division (PML) Time and Frequency Division (PML) Statistical Engineering Division (ITL)	James Whetstone
8:30 AM	Intro to Projects: Microwave Remote Sensing	Dave Walker and Jolene Splett
9:30 AM	Near-field and Scattering Measurements at 183 GHz with the NIST CROMMA Facility	Joshua Gordon (or David Novotny)
10:15 AM	Mid-Infrared Sources and Techniques for Greenhouse Gas Detection	Scott Diddams
11:00 AM	Discussion	
11:30 AM	Lunch	
12:30 PM	Greenhouse Gas Monitoring using Fiber Frequency Combs	Nate Newbury
1:15 PM	Differential Absorption LIDAR (DIAL) for Greenhouse Gas Measurements	David Plusquellic (with Steven Maxwell in Gaithersburg)
2:00 PM	Total Integrated Absorption & Tomographic Reconstruction of Area Sources	Zachary Levine (from Gaithersburg)
2:30 PM	Discussion	
3:00 PM	Adjourn	