Calibration is becoming increasingly more challenging as measurement requirements for many of today’s remote sensing applications become more stringent. Now in its 25th year, the Characterization and Radiometric Calibration for Remote Sensing (CALCON) annual meeting provides a forum for scientists, engineers, and managers to present, discuss, and learn about calibration, characterization, and radiometric issues within the microwave, IR, visible, and UV spectral ranges.

Experts in the calibration community offer relevant knowledge and suggestions about calibration, characterization, and radiometric issues within the microwave, IR, visible, and UV spectrums. Individuals developing measurement requirements for current and future sensor systems are encouraged to participate in the meetings to foster continuity and advancement within the community. CALCON attendance enables interaction with other experts, helps close the gap between expectations and real-world experiences, and may result in the discovery of solutions to individual program challenges. The continuity and advancement of our calibration community depends on your participation.

FOR COMPLETE CALL FOR PAPER DETAILS, VISIT www.CAlCon.SDL.USU.EDU

Special Restricted Session
The program will include a restricted session for US Department of Defense (DoD) government programs and associated contractors to present protected information and interact with peers in the EO calibration community. Depending on papers submitted, the session will be organized to include material that is restricted and either 1) unclassified with limited distribution or 2) classified up to the TOP SECRET//SI/TK classification level. Participation in this session will require the appropriate documentation for each individual presenter and attendee. We anticipate papers in this session to fall under one of the following distribution classifications: ITAR/Export Controlled, U//FOUO—Distribution C or D, SECRET//NOFORN or TOP SECRET//SI/TK.

Please Note: Titles and abstracts should be at the unclassified level. Upon acceptance, authors will receive instructions for submitting restricted presentation materials.

Poster Session
A Poster session will provide a forum for authors to present their work in an informal and interactive setting. The poster may be an overview of a technical topic, problem, question, or case study and is ideal for presenting investigative results or introducing innovative work. Posters are intended to provide authors and participants with the ability to connect with each other and to engage in discussions about the work. Posters supporting any technical session category are encouraged. They will be displayed throughout the meeting, with dedicated time for poster viewing.

SPONSORS
- Utah State University/Space Dynamics Laboratory (USU/SDL)
- National Institute of Standards and Technology (NIST)

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2016
TECHNICAL SESSION TOPICS & THEMES

We invite you to participate in the 25th CALCON technical meeting by submitting an abstract for an oral or poster presentation. CALCON promotes the interchange of technical data and lessons learned from programs within the remote sensing community, with emphasis toward calibration.

NEW FOR 2016

Sensor Calibration and Testing for Hosted Small Satellite Payloads
Examining small satellite payload calibration, testing processes, and methods, including accuracy and precision, to discover ways to reduce cost and schedule while still meeting mission requirements.

Remote Sensing and Calibration of Astronomical Data
Assessing the precision and accuracy of radiometric measurements of astrophysical sources.

Calibration Challenges in Remote Sensing for Environmental Studies
Understanding radiometric calibration and characterization of remote sensing instruments for environmental studies.

Inter-Calibration and Validation of Operational Sensors
Performance comparison between sensors of differing scientific objectives, capabilities, and mission parameters to assess measurement bias and uncertainty.

Calibration Methods Using Celestial Objects
Presentation of radiometric measurements and calibration methods using the Sun, Moon, stars, and other celestial objects in the ultra-violet, visible, and infrared wavelengths.

Calibration of Microwave Radiometers and Other Microwave Instruments
Calibration and characterization issues associated with making radiometric measurements within the microwave band, including the comparison or fusion of microwave data with data obtained within the optical bands.

Pre-launch Testing and Post-launch Performance
Assessment of pre- and post-launch calibration and performance characterization for operational remote sensing systems.

Radiometric Sensor Calibration Uncertainty and Error Analysis
Sensor calibration and characterization relies on models, measurements, and analysis to provide the needed data to derive results while estimating errors and uncertainties show how well the results are understood.

Equipment, Capabilities, and Facilities for Radiometric Calibration
Hardware and resources to support National and international requirements for radiometric calibration of remote sensing instruments, including long-term trending and performance enhancements of existing facilities.

National Standards Technology Advancement
Opportunities for communication and collaboration between National standards laboratories and the calibration community to improve calibration technologies and methodologies.

Calibration Methods for Climate Change Measurement and Modeling
Methods and techniques that are capable of meeting the very stringent calibration precision and accuracy requirements of climate change measurement and modeling programs, and calibration results for sensors designed to achieve climate-quality measurement results.

Sensor Calibration for Ground-Based and Airborne Radiometric Measurements
Technical subjects pertaining to calibration and characterization of remote sensing instruments for ground-based and airborne remote sensing programs.

Advancements in Radiometric Calibration
State-of-the-Art
Techniques, equipment, methods, and processes to advance the productivity and value of radiometric calibration.

CONTACT INFORMATION

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ABSTRACT SUBMISSION

SUBMIT ONLINE AT WWW.CALCON.SDL.USU.EDU

On-line abstract submission is required for oral and poster presentations. Directions and links for the submittal process can be found at www.calcon.sdl.usu.edu.

Abstracts should relate to the technical session theme and should clearly summarize the proposed paper in one single-spaced page. Abstracts that focus primarily on the marketing of commercial material are discouraged.

Each abstract must include:

1. title of paper
2. author(s)
3. affiliation for each author listed
4. name and affiliation of presenter
5. point of contact with complete mailing and email addresses, phone and fax numbers
6. the session topic or theme that best describes the abstract

Abstracts for Restricted Session
Submit abstracts for the restricted session by uploading to our secure, encrypted website at www.calcon.sdl.usu.edu.

Titles and abstracts should be at the unclassified level. Upon acceptance, authors will receive instructions for submitting restricted presentation materials. Address all questions regarding the restricted session to Deron Scott at deron.scott@sdl.usu.edu.

CALL FOR EXHIBITORS

We invite organizations to participate in a commercial exhibit to be held in conjunction with the Meeting. CALCON is unique in its focus on calibration and its draw of domestic and international scientists and engineers dedicated to calibration, characterization, and radiometric issues within the Microwave, IR, visible, and UV spectrums. This is a great opportunity to showcase your products and services to international representatives, professionals within the US Government and supporting industries, and domestic representatives from related industries and academia. You can find background information on the Meeting, including attendance statistics, at www.calcon.sdl.usu.edu/exhibits.

Exhibit Registration and Fees
Exhibit registration begins March 28, 2016, at 9:00 a.m. MST. Reservations for exhibit space are processed on a first-come, first-served basis.

Exhibit space dimensions are listed on the exhibit layout. Please note that exhibit space dimensions vary. The rental rate is $375. The fee includes one 8’ draped table and two chairs.

The exhibit layout and registration form are available online at www.calcon.sdl.usu.edu/exhibits.

SPONSORSHIP OPPORTUNITIES

TO SECURE A SPONSORSHIP, SUBMIT THE EXHIBITOR REGISTRATION FORM AT WWW.CALCON.SDL.USU.EDU/SPONSORS.

Package amenities are available on the meeting website: www.calcon.sdl.usu.edu