

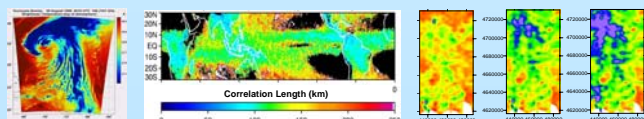
Center for Environmental Technology



The Center for Environmental Technology (CET) has been established within the College of Engineering of the University of Colorado at Boulder in cooperation with the U.S. National Oceanic and Atmospheric Administration (NOAA) to support the development of advanced environmental sensors for use by governments, industry, and academia. CET provides expertise for the development of new *in situ* and remote sensing concepts and systems through cross-linkages with faculty across the CU campus and collaborators within the CU Cooperative Institute for Research in Environmental Science (CIRES) and the NOAA Earth System Research Laboratory (ESRL).

CET Concept and Mission

- Joint-Institute based **technology-driven, university-led** research program that is responsive to the technology needs of both the new NOAA Earth System Research Laboratory (ESRL) and other NOAA line offices.
- Provides a unique **national training ground** for the next generation of environmental sensor engineers and observational scientists.
- Development of innovative observing systems for environmental applications is the primary CET research mission. Teaching at both the UG and graduate level are essential to this mission, hence the CU College of Engineering is home for the Center.
- Scientific collaboration between CET and NOAA/ESRL being facilitated by CIRES.
- Coordination with NCAR, NIST, NREL, CSU, Univ. Wyoming, many regional small & large companies, international efforts (e.g., Group on Earth Observations – GEO) is ongoing.
- Support of CET research being provided by NOAA, NPOESS, NASA, DoE, DoD, and corporate sponsors.
- Location of the CET is in the CU Engineering Center within 10 minutes of ESRL, NCAR, NIST, and other institutions.
- Facilities include a 2,500 sq ft observation system development laboratory within the CU Engineering Center, an ECE atmospheric observatory (under development), data network with 12 TB server capacity, radio quiet room, PSR airborne and ground-based radiometer suites, scanning Ka-band radar, and major test and fabrication equipment.
- Professor A.J. Gasiewski (former Chief of the NOAA/ETL Microwave Systems Development Division and 2004-2005 President of the IEEE Geoscience and Remote Sensing Society, is serving as first CET Director.
- NOAA/ESRL/PSD has provided initial core expertise and infrastructure. Laboratory facilities and engineering faculty position have been provided by CU/ECE.



CET Members:

Professor Albin J. Gasiewski (CU/ECE)
 Dr. Ed R. Westwater (CU/ECE)
 Dr. Marian Klein (CIRES)
 Dr. Vladimir Leuiski (CIRES)
 Carroll Campbell (NOAA/ESRL/PSD)
 David Kraft (CU/ECE)
 Dr. Bob L. Weber (CU/ECE)
 Dr. Dean F. Smith (CU/ECE)
 Eric McIntyre (CU/ECE - UG)
 Julia Collins (CIRES and NSIDC)
 Dr. Nico Cimini (University of L'Aquila)
 Dr. Vladimir Irisov (Zeltech, LLC)
 Ambarish Jash (CU/ECE - GS)
 Siddarth Maru (CU/ECE - GS)
 Miao Tian (CU/ECE - GS)
 Ben Irwin (CU/ECE - UG)

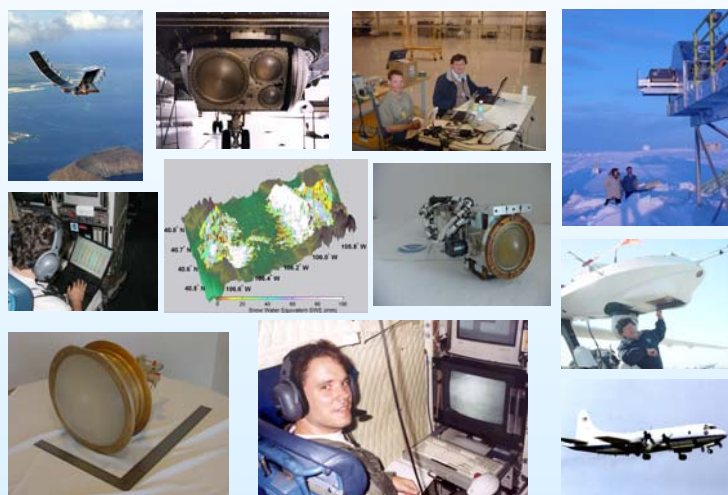
For more information on CET, its personnel, and its research activities please contact the CET Director:

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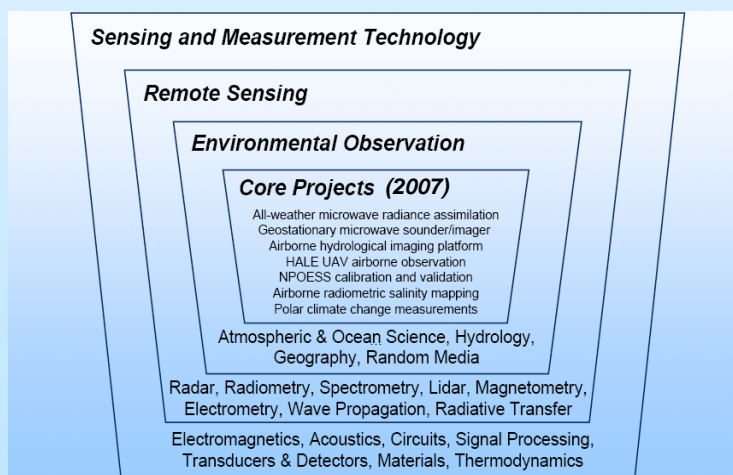
The CET web site is at:

<http://cet.colorado.edu>

Spectrum of CET Research Activities



Hierarchy of CET Interests and Expertise



CET Associate Members:

Professor Zoya Popovic (CU/ECE)
 Professor Dejan Filipovic (CU/ECE)
 Professor Tim Brown (CU/ECE)
 Professor Jim Avery (CU/ECE)
 Professor Brian Argrow (CU/ASEN)
 Timothy L. Schneider (NOAA/ESRL/PSD)
 Dr. R. Michael Hardesty (NOAA/ESRL/CSD)
 Dr. Gary A. Wick (NOAA/ESRL/PSD)
 Dr. Alexander G. Voronovich (NOAA/ESRL/PSD)
 Dr. Valery Zavorotny (NOAA/ESRL/PSD)
 Dr. Boba Stankov (NOAA/ESRL/PSD)
 Dr. Nicholas Zabotin (CIRES)
 Dr. Bill Wright (Dynasode Solutions)
 Dr. Vinya Mattioli (University of Perugia)
 Dr. Jian-Wen Bao (NOAA/ESRL/PSD)
 Dr. Ed Walsh (NASA/GSFC)
 Dr. Mark Tschudi (NCAR)