

CURRICULUM VITAE \ RESUME

GEORGE T JANSON

USDA UV-B Monitoring and Research Program
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EDUCATION

1975 B.S. Chemical Engineering, Syracuse University, Syracuse, NY
with minor in computer science, including electives in astronomy and electronics.
1973 A.S. Math/Science, Columbia-Greene Community College, Hudson, NY
with minor in surveying and drafting; salutatorian.

TECHNOLOGY EXPERIENCE AND SPECIALIZED SKILLS

Supervisory Activities

- * assist Program Director with management of daily activities of the staff, to allow him to continue to pursue research activities.
- * primary liaison with outside agencies, such as the calibration lab, the instrument manufacturer and site operators.
- * assist with annual negotiations of the MOA's for each climatologic and research site.

Installation, Troubleshooting and Repair

- * on-going analysis of the stability and performance of our instrumentation, with some of this analysis presented at scientific conferences and subsequently published in scientific journals.
- * installing, operating, troubleshooting and repairing Multifilter Rotating Shadowband Radiometers in remote field locations, for past 15+ years.
- * troubleshooting and repair of circuit boards for datalogger equipment connected to Multifilter Rotating Shadowband Radiometers, and fiber optic components used to transfer data.
- * troubleshooting and repair of circuit boards and optics inside the Multifilter Rotating Shadowband Radiometers.
- * on a daily basis, assure that all monitoring sites are reliably telemetering data to the central computer system.
- * 15 years combined prior experience in performing repairs of electronic / electrical equipment for prior employers.

Communications Skills

- * developed and organized two successful Site Operator Workshops in 2002 and 2004, to provide basic and advanced training to the site operators we interface with on a routine basis.
- * developed a Power Point program describing our project which is presented to interested scientists during the annual maintenance site visits.
- * on-site and telephone-based interfacing with site operators to resolve operating problems, and direct repairs, for Multifilter Rotating Shadowband Radiometers in remote locations, for past 15+ years.
- * installed and maintained radiometric monitoring equipment for several cooperative instrument campaigns, including SCOS-97 in the LA Basin, CA; 1997 UV Intercomparison at Table Mountain, CO; May 2005 Intercomparison of filter-based instruments at Oesteraas, Norway; collection and analysis of UV data from a pair of GUV511 instruments at Pawnee, CO.

- * worked with Huancayo Observatory in Peru to relocate one of these GUV511's; and installed and maintain UVA instrumentation used for ground-truthing NASA TOMS satellite data.
- * developed rapport with scientists, administrators, technicians and engineers at PNNL, SUNY-Albany, Yankee Environmental Systems, and at various universities (UT, GA, IL, NY, MI, others) that host radiometric monitoring and research programs.
- * present a seminar about the UVB Monitoring Program to groups of atmospheric scientists and other interested data users during the annual site maintenance visits.
- * assist with development of calibration and quality assurance procedures for remotely operated radiometers.
- * assist with applying spectral response characteristics to develop field calibration techniques for radiometers.

Training and Instructional Experience

- * 15+ years experience providing on-site training of technicians for local maintenance of Multifilter Rotating Shadowband Radiometers.
- * 15+ years of travel within USA, Canada and New Zealand to service Multifilter Rotating Shadowband Radiometers in remote locations, in all seasons and weather.

EMPLOYMENT HISTORY

- 1996-Present Field Technician with Ultraviolet Radiation Monitoring Program at CSU, Fort Collins, CO
- 1994-1996 Maintenance Technician at Horizon West Property Management, Fort Collins, CO
- 1993-1996 Authorized Dealer for Trimble Navigation's hand held GPS receivers.
- 1990-1993 Sales and Engineering with Choice Heat Company, Inc., Fort Collins, CO (manufacturer's rep. agency)
- 1987-1990 Property Loss Control Representative at Hartford Steam Boiler Inspection & Insurance Co, Denver, CO
- 1986-1987 Firefighter (wildfires) with Larimer County Sheriff's Department Emergency Services, Fort Collins, CO
- 1985-1986 Safety & Loss Control Engineer at ANG Coal Gasification Company, Beulah, ND
- 1984-1985 Firefighter (wildfires) with Larimer County Sheriff's Department Emergency Services, Fort Collins, CO
- 1975-1983 Safety (Chemical) Engineer for Eastman Kodak Company, Windsor, CO

PUBLISHED WORKS

- B. Johnsen, B. Kjeldstad, T. N. Aalerud, L. T. Nilsen, J. Schreder, M. Blumthaler, G. Bernhard, A. Bagheri, B. Bhattarai, C. Topaloglou, G. Zablocki, O. Meinander, B. A. Hoiskar, R. Haugen, W. S. Durham, G. Janson, A. R. Marrero, A. Dahlback, D. Bolsée, J. R. Slusser, J. Stamnes, C. Torres, A. R. Smedley, L.-E. Paulsson, K. Lakkala, A. R. Webb, J. B. Orbak, A. A. Grimenes, T. Ringstad, T. Lange, W. Josefsson, 2006, International intercomparison of multiband filter radiometers in Oslo 2005, 2006, Proc. SPIE Vol. 6362, 63620W
- K. Lantz, P. Disterhoft, C. Wilson, G. Janson, B. Durham, J. Slusser, 2006, Long-term evaluation of the calibration of YES UVB-1 broadband radiometers of the Central UV Calibration Facility (1994-2005) and the suite of UV radiometers in the USDA UV Monitoring Network, Proc. SPIE Vol. 6362, 63620X
- Xinli Wang, Wei Gao, James Slusser, John Davis, Becky Olson, Bill Durham, Roger Tree, George Janson, Scott Janssen, and Rita Deike, Gwen Scott, 2006. USDA UV-B monitoring system: An application of centralized architecture, In: Proceedings of the 2006 International Conference on Parallel & Distributed Processing Techniques and Applications & Conference on Real-Time Computing Systems & Applications, PDPTA 2006, edited by Hamid R. Arabnia, CSREA Press, pp. 279-285
- Krotkov, N., P. K. Bhartia, J.R. Herman, J. R. Slusser, G. Labow, G. Scott, G. Janson, T. F. Eck, and B. Holben, 2005. Aerosol UV absorption experiment (2002-04): 1. UV-MFRSR calibration and intercomparison with CIMEL sun photometers, *Optical Engineering* 44(4) 041004
- Janson, G.T., J. Slusser, G. Scott, P. Disterhoft, and K. Lantz. 2005. Long-term stability of UV multifilter rotating shadowband radiometers, part 2: lamp calibrations versus the Langley method. *Ultraviolet Ground- and Space-based Measurements, Models, and Effects IV*, 43-54, Published by SPIE, Bellingham, WA, USA
- Lantz, K., P. Disterhoft, C. Wilson, G.T. Janson, J. Slusser, S. Bloms, and J. Michalsky. 2005. Out-of-band rejection studies of the UV multi-filter rotating shadow-band radiometers. *Remote Sensing of Clouds and the Atmosphere X*, 59791N-1– 59791N-9, Published by SPIE, Bellingham, WA, USA
- Janson, G.T., and J.R. Slusser. 2003. Long-term stability of UV multifilter rotating shadowband radiometers, *Proc. SPIE*, 5156, 94-100