

BIO SKETCH

JÜRGEN MICHAEL LOBERT



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Jürgen Lobert is the director of the Analytical Services laboratory at Entegris' GMC Division. Jürgen changed positions within the company and previously was the business group manager of Metrology at Extraction Systems Inc (before its merger with Entegris), a manufacturer of filters and provider of services for the semiconductor industry. Prior to 2003, Jürgen was Chief Scientist at API, an OEM for trace gas analyzers, where he developed the M200E series NO_x and O₃ analyzers. Before that, Jürgen was an Associate Project Scientist at the

Center for Clouds, Chemistry and Climate (C4), Scripps Institution of Oceanography, University of California at San Diego, La Jolla, USA. Born in Germany, he received his Diploma in Chemistry in 1985 at the Technical University of Darmstadt and his Ph.D. in Chemistry with focus on Atmospheric Chemistry in 1990 from the University of Mainz, Germany.

His Ph.D. research on biomass burning emissions was done at the Max Planck Institute for Chemistry / Airchemistry Department in collaboration with Paul Crutzen and Peter Warneck. Jürgen spent the first of his postdoc years in Mainz on soil flux studies moved to Boulder, Colorado, in 1991, where he worked at the NOAA Climate Monitoring and Diagnostics Laboratory on studies of air-sea exchange of halogenated compounds. He started as a Project Scientist at C4 in 1997, where he established a climate observatory and long-term measurements of trace gases and meteorological data on the remote island of Kaashidhoo in the Republic of Maldives for the Indian Ocean Experiment (INDOEX).

Areas of research interest include the measurement of trace gases that are pertinent to Global Climate Change and, in particular, to global warming and stratospheric ozone depletion. The focus of his early work was on emissions from biomass burning, a topic that seems to continue throughout his career. Another major focus was on air sea exchange of halogenated trace gases and other compounds. His more recent work broadened his interests somewhat to include setup and maintenance of a long-term climate observatory and more overlap of his research with the aerosol, radiation and global circulation sciences. On the practical side, the development of analytical instrumentation for trace gas measurements and in particular gas chromatography with a wide variety of detectors and mass spectrometry is the approach of choice, but other methods such as NDIR and UV absorption, neutron activation analysis, and a host of other sensors are part of Jürgen's repertoire.

Previous and recent collaborations include Paul Crutzen and many other people at the Airchemistry and Biogeochemistry Departments of the Max Planck Institute for Chemistry; James Butler, James Elkins, Tom Conway, Samuel Oltmans, Joyce Harris and others at NOAA's Climate Monitoring and Diagnostics Laboratory; Eugenio Sanhueza / IVIC, Caracas, Venezuela; David Griffith at the University of Wollongong; David Fahey and others at NOAA's Aeronomy Laboratory; Julia Lee Taylor and others at the National Center for Atmospheric Research; Ray Weiss and co-workers at Scripps Institution of Oceanography, M. Majeed, Ministry of Home Affairs, Housing and Environment, Republic of Maldives; Bruce Doddridge and others at the University of Maryland, Aslam Khalil at Portland State University, Oregon and William Keene and others at the University of Virginia. In the business world, Jürgen collaborated with Ed Etess, David Neuschuler, Jeff Franks at T-API and with Devon Kinkead, John Higley at Extraction Systems / Entegris.

Jürgen participated and partially or fully organized 10 major and several minor field campaigns between 1 week and 3 months of duration. He spent about 77 weeks of his life on these campaigns, 26 of which were out in the Pacific, Atlantic and Antarctic Oceans and the same amount of time on the island of Kaashidhoo in the Indian Ocean. He is the first or co-author on more than 40 papers in journals, books, technical reports and some contributions to local newspaper, institutional almanacs and advisory reports for national and global agencies. He has a record of about 30 presentations at major conferences and meetings and would be more than pleased to report his latest findings at your place!