

James E. Houck, Ph.D.
President
OMNI Environmental Services, Inc.

SUMMARY OF PROFESSIONAL QUALIFICATIONS

Dr. Houck has over 25 years of professional experience and has authored over 100 professional papers and reports, chaired numerous workshop and conference sessions, and taught short courses pertaining to environmental impacts, air quality, biomass combustion, and residential heating issues. His air project management and research experience encompasses a range of air issues, from ambient monitoring and modeling to emission inventories, permit acquisition and regulatory compliance. He has conducted emission evaluations on over 50 industrial facilities, evaluated the impacts of non-industrial sources in a variety of airsheds and has conducted impact analysis using receptor and dispersion models on approximate 30 different airsheds. He has established ambient monitoring networks and developed both ambient measurement and source testing protocols and instrumentation. He has also been the quality assurance officer on federally funded air quality projects and managed a number of interdisciplinary studies.

Since 1990 he has primarily specialized in biomass combustion and residential heating research and consulting. This work has been conducted for manufacturers, trade organizations, air quality regulatory agencies, and energy agencies. The work has included the development of new products and fuels, the evaluation of product performance, air quality impact assessments, engineering design, use surveys, market evaluations and air emission characterization.

EXPERTISE

Air Quality Monitoring and Modeling
Emission Inventory Development
Air Quality Support for Environmental Impact Statements
Emissions Measurement and Source Characterization
Emission Measurement Methods Development
Control System Evaluation and Design
Permitting
Environmental Assessment of Geothermal Power
Fugitive Dust and Odor Evaluation
Biomass Fuel and Combustion Research
Residential Heating

EDUCATION

Ph.D., Oceanography (Chemical), University of Hawaii.
M.S., Chemistry (Environmental), University of Hawaii.
B.S., Chemistry, Mathematics/Physics Minor, University of Arizona.