

James E. Houck, Ph.D.
Energy, Biomass and Environmental Consulting

PROFESSIONAL QUALIFICATIONS

Dr. Houck has more than 30 years of professional experience and has authored more than 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 more than 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.

EDUCATION

Ph.D., Oceanography (Chemical), University of Hawaii

M.S., Chemistry (Environmental), University of Hawaii

B.S., Chemistry, Mathematics/Physics Minor, University of Arizona