

**Ground Based FTIR Measurements in Support of MOPITT
(NAG5-6670)**

Progress Report

June 1999

Frank J. Murcray

This project uses the network of ground based infrared solar absorption spectrometers to provide validation data for MOPITT and SAGE III. Since the CO measurements of MOPITT will also be validated with infrared emission measurements and *in situ* sampling from aircraft, a comparison of the techniques was arranged for the DOE site in north central Oklahoma in early March, 1998. Both infrared emission and absorption instruments are operated at the site routinely, and aircraft sampling was arranged for several days. Unfortunately, weather and instrument problems prevent directly overlapping observations with all systems, but useful data were obtained for analysis. (See the Earth Observer article describing the Pre-MOVE campaign).

We have attended the MOPITT science team meetings, and worked with them to provide the best possible validation data. There will be a planning session at the meeting of the infrared working group of the Network for Detection of Stratospheric Change in June, 1999.