

## **Fu-Lin Chen, Research Physical Scientist, in EPA's National Exposure Research Laboratory**

Exposure Methods and Measurements Division

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**Area of Expertise:** Fu-Lin is responsible for PM-10 samplers test and sampler performance evaluation under controlled wind speeds (2 to 48 km/h) and particle sizes (3 to 25 micrometer) in the EPA closed loop wind tunnel. He is responsible for the remodeling of the EPA wind tunnel to 48 kilometers per hour. Fu-Lin worked on the experimental study of turbulent flow fields around aerosol sampling inlet using phase Doppler anemometer. He is the Principal Investigator of the Near Road Exposure study, Traffic-Related Exposure Study in New York City, and North Carolina Asthma, Childhood, and Environment Studies (NCACES).

### **Select Publications:**

Chen, Fu-Lin, Vanderpool, R., Williams, R., Dimmick, F., Grover, B., Long, R., Murdoch, R., Field Evaluation of portable and central site PM samplers emphasizing additive and differential mass concentration estimates. *Atmospheric Environment* 45 (2011)

Chen, Fu-Lin, Williams, R., Svendsen, E., Yeatts, K., Creason, J., Scott, J., Terrell, D., and Case, M. coarse particulate matter concentrations from residential outdoor sites associated with the North Carolina Asthma and Children's Environment Studies (NC-ACES), *Atmospheric Environment* 41 (2007).

Heist, D.K., Tolocka, M.P., Vanderpool, R.W., Peters, T.M., Chen, F-L. and Wiener, R.W. Changes in Operating procedures for Achieving Aerosol Concentration Uniformity for PM<sub>2.5</sub> and PM<sub>10</sub> Sampler Testing , *Aerosol Science and Technology*, May 2001

Tolocka, M.P., Peters, T.M., Vanderpool, R.W., Chen, F-L.,and Wiener, R.W. On the Modification on the Low Flow-Rate PM<sub>10</sub> Dichotomous Sampler Inlet, *Aerosol Science and Technology*, 2001

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### **Education:**

- M.S.P.H., Environmental Science, University of North Carolina, Chapel Hill, 1981
- M.S., Physics, University of Louisville, 1979
- B.S., Physics, Chung Yuan Christian College of S&E, 1973

**Professional Experience:**

- Physical Scientist, USEPA. Ambient exposure study, PM research, wind tunnel sampler performance evaluation, particle generation and measurement; 1991-present
- Aerosol Physicist, Research Triangle Institute. PM samplers test and specific performance under controlled wind speed and particle size in the EPA closed loop wind tunnel; 1982-1991