

Program - 9/12/2004

**13<sup>th</sup> International Symposium on Transport and Air Pollution**  
**13 – 15 September 2004**  
**National Center for Atmospheric Research**  
**Boulder, Colorado USA**

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**Monday 13 September 2004**

7:30-8:30 Registration

8:30-9:00 Welcome

Session 1 - chair: Jeff Gaffney, DOE/ANL

- 9:00 Mitra, A.P., C. Sharma and R. Pundir, *Emissions of pollutants from transport sector in Indian mega-cities: Case studies of Delhi and Calcutta*
- 9:30 Jazcilevich, A., D., M. Gutter, V. Magaña-Rueda, E. Caetano-Neto and M. Moya, *Research on Meteorology and Air Pollution in Mexico City at the Center of Atmospheric Sciences at UNAM*
- 10:00 Zavala, M., E. Dunlea, L. Marr, R. Slott, L. T. Molina, M. J. Molina, S.C. Herndon, J.T. Jayne, J. Shorter, D. Worsnop, M. Zahniser, T. Onash, C. Kolb, and B. Knighton, *Characterization of Vehicle Emissions in Mexico City during the MCMA-2003 Field Measurement Campaign*

10:30-11:00 Break/Mount posters

Session 2 - chair: Betty Cardenas, CENICA/SEMARNAT

- 11:00 Vega, E., E. Reyes, G. Sánchez, J. C. Chow and J. G. Watson, *Vehicular Emissions of Volatile Organic Compounds Determined in Two Tunnels in Mexico City*
- 11:30 Zhang, Q., K. Dzepina, J. L. Jimenez, M. R. Alfarra, J. D. Allan, H. Coe, D. R. Worsnop and M. R. Canagaratna, *Quantitative Estimates of Primary and Oxygenated Organic Aerosol Mass Concentrations and Size Distributions with 5-min Time Resolution: Pittsburgh vs. Mexico City*

12:00-13:30 Lunch

Session 3 – chair: Mireya Moya, UNAM/CCA

- 13:30 Wohrnschimmel, H., E. Bueno, V. Mugica, B. Cardenas, S. Blanco, C. Marquez and J. Staehelin, *Ozone and VOC vertical profiles over the Southeast of Mexico City*
- 14:00 Marley, N. A. and J. S. Gaffney, *Measurements of Ammonia in Mexico City in April 2003 using Near-IR TDLAS Open Path System*
- 14:30 Sosa-Iglesias, G., E. Vega, E. Reyes-Zarate, J. L. Arriaga, E. Gonzalez-Avalos, J. L. López-Martinez and V. R. Mora-Perdomo, *Local and Regional Air Quality Characterization in Salamanca, Mexico: The Field Campaign 2003.*
- 15:00 Madronich, S. *Chemical Transformations Down-wind of Large Urban Areas: Mexico City Case Study*

15:30 – 16:00 Break/View posters

Session 4 – chair: Aron Jazcilevich, UNAM/CCA

- 16:00 Massie, S., J. Gille, and D. Edwards, *Satellite observations of aerosol and CO over Mexico City*

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- 16:30 Tie, X. and S. Madronich, *Evolution of Mexico City Air Pollution Plume: Simulation of WRF-Chem Regional Chemical/Dynamical Model*
- 17:00 Bassi, C., S. Becker and L. Calovi, *New motorway projects and proximity air pollution: Evaluating Sanitary Risks (inhalation and ingestion)*
- 18:00-20:00 Banquet

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## Tuesday 14 September 2004

Session 5 – chair: Johannes Staehelin, ETH

- 8:30 Lonati, G., M. Giugliano, S. Cernuschi and M. Grosso, *The Role of Traffic Emissions from Weekend and Weekdays PM<sub>10</sub> Data in Milan*
- 9:00 Stutz, J., A. Geyer and S. Wang, *Chemistry in the Urban Nocturnal Boundary Layer: Influence of Vertical Mixing on the Processing of urban Pollutants*
- 9:30 Oettl, D., S. Hausberger, M. Rexeis and P. Sturm, *Detailed Simulation of Traffic Induced Air Pollution near the A 12 Autobahn in Austria*
- 10:00 – 10:30 Break/View posters

Session 6 – chair: Peter Sturm, TUG

- 10:30 Dixon, N.S., R.J. Smalley, J.W.D. Boddy, J.E. Tate, and A.S. Tomlin, *The influence of 3-dimensional flow structures on the dispersion of a traffic related pollutant in a complex urban street canyon*
- 11:00 Volkmar, H., H. Ernst, C. Nagel, J. Kühlwein, R. Friedrich, S. Hausberger, P. Vortisch, W. Bächlin, and H. Frantz, *Calculation and Prediction of Urban Air Quality on the Base of a Microscopic Traffic Simulation Model*
- 11:45-12:30 Lunch
- 12:30-18:00 Mountain tour
- 17:30-19:00 Reception/poster session

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## Wednesday 15 September 2004

Session 7 – chair: Leonid Ntziachristos (AUTH)

- 8:30 Lents, J. M., M. Osses, N. Davis, N. Nikkila, and M. Barth, *Comparison of On-Road Vehicle Profiles Collected in Seven Cities Worldwide*
- 9:00 Andre, M. and R. Joumard, *Real-world and specific to vehicle driving cycles for measuring car pollutant emissions*
- 9:30 Damm, C. J., H. D. Kuhns, and A. W. Gertler, *An Assessment of Motor Vehicle Particulate Matter Emissions Measurements*
- 10:00 – 10:30 Break/View posters

Session 8 – chair: Robert Joumard (INRETS)

- 10:30 Ntziachristos, L. and Z. Samaras, *Vehicle and Fuel Effects on Exhaust Particle Properties from Diesel Passenger Cars*
- 11:00 Heeb, N. V., A.-M. Forss, S. Brühlmann, R. Luscher, C. Saxer, and P. Hug, *Three-way Catalyst-induced Formation of Ammonia-Velocity- and Acceleration-dependent Emission Factors*

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- 11:30 Soltic, P. and S. Hausberger, *On-Road Emission Measurements and Emission Modelling Results for a Tractor-Semitrailer in Trans-Alpine Operation*
- 12:00-1:30 Lunch
- Session 9 – chair: Alan Gertler (DRI)
- 13:30 Staehelin, J. and C. Colberg, *Comparison of Road Tunnel Measurements from Gubrist Tunnel (Switzerland) with Road Traffic Model*
- 14:00 Tartakovsky, L., M. Gutman, Y. Aleinikov, V. Baybikov, M. Veinblat, and Y. Zvirin, *Road Tests of Diesel Oxidation Catalysts on Urban Buses*
- 14:30 Gense, R., M. Weilenmann, and I. McCrea, *Direct NO<sub>2</sub> emission from road transport*
- 15:00-15:30 Break/View posters
- Session 10 – chair: Asif Faiz (World Bank)
- 15:30 Gertler, A., H. Kuhns, C. Damm, J. Gillies, M. Abu-Allaban, R. Clayton, and D. Proffitt, *The Impact of Winter Road Sand/Salt and Street Sweeping on Road Dust Re-Entrainment*
- 16:00 Stevens, G., A. Wilson, and J. Hammitt, *The Benefits and Costs of Ultra-Low Sulfur Diesel in Mexico*
- 16:30 McKinley, G., M. Zuk, M. Hojer, M. Avalos, I. González, R. Iniestra, I. Laguna, M. A. Martinez, P. Osnaya, L. M. Reynales, R. Valdés, and J. Martinez, *Local and Global Benefits from Transportation Measures in Mexico City*
- Session 11 – chair: Sasha Madronich (NCAR)
- 17:00 Faiz, A., B. B. Ale, and R. K. Nagarkoti, *The Role of Inspection and Maintenance (I/M) in Controlling Vehicular Emissions in Kathmandu Valley, Nepal*
- 17:30 END OF SYMPOSIUM