

LAC Publications 2005

Journal Articles 2005

Baltensperger, U., M. Kalberer, J. Dommen, D. Paulsen, M. R. Alfarra, H. Coe, R. Fisseha, A. Gascho, M. Gysel, S. Nyeki, M. Sax, M. Steinbacher, A. S. H. Prevot, S. Sjögren, E. Weingartner, and R. Zenobi, 2005:

Secondary organic aerosols from anthropogenic and biogenic precursors.

Faraday Discussions, **130**, 265-278.

Bukowiecki, N., M. Hill, R. Gehrig, C. N. Zwicky, P. Lienemann, F. Hegedüs, G. Falkenberg, E. Weingartner, and U. Baltensperger, 2005:

Trace metals in ambient air: Hourly size-segregated mass concentrations determined by Synchrotron-XRF.

Environmental Science & Technology, **39**, 5754-5762.

Campana, M., Y. Li, J. Staehelin, A. S. H. Prevot, P. Bonasoni, H. Loetscher, and T. Peter, 2005:

The influence of south foehn on the ozone concentration at the high alpine site Arosa.

Atmos. Environ., **39**, 2945-2955.

Chevillat, V. S., R. T. W. Siegwolf, S. Pepin, and C. Körner, 2005:

Tissue-specific variation of $\delta^{13}C$ in mature canopy trees in a temperate forest in central Europe.

Basic and Applied Ecology, **6**, 519-534.

Corsmeier, U., D. Imhof, M. Kohler, J. Kuhlwein, R. Kurtenbach, M. Petrea, E. Rosenbohm, B. Vogel, and U. Vogt, 2005:

Comparison of measured and model-calculated real-world traffic emissions.

Atmos. Environ., **39**, 5760-5775.

de Wekker, S. F. J., D. G. Steyn, J. D. Fast, M. W. Rotach, and S. Zhong, 2005:

The performance of RAMS in representing the convective boundary layer structure in a very steep valley.

Environment Fluid Mechanics, **5**, 35-62.

Drewnick, F., S. S. Hings, P. DeCarlo, J. T. Jayne, M. Gonin, K. Fuhrer, S. Weimer, J. L. Jimenez, K. L. Demerjian, S. Borrmann, and D. R. Worsnop, 2005:

A New Time-of-Flight Aerosol Mass Spectrometer (TOF-AMS) - Instrument description and first field deployment.

Aerosol Sci. Technol., **39**, 637-658.

Fisseha, R., J. Dommen, L. Gutzwiller, E. Weingartner, M. Gysel, C. Emmenegger, M. Kalberer, and U. Baltensperger, 2005:

Seasonal and diurnal characteristics of water soluble inorganic compounds in the gas and aerosol phase in the Zurich area.

Atmos. Chem. Phys. Discuss., **5**.

Geever, M., C. D. O'Dowd, S. van Ekeren, R. Flanagan, E. D. Nilsson, G. de Leeuw, and U. Rannik, 2005:

Submicron sea spray fluxes.

Geophys. Res. Lett., **32**.

Hagedorn, F., S. Maurer, J. B. Bucher, and R. T. W. Siegwolf, 2005:

Immobilization, stabilization and re-mobilization of N in forest soils at elevated CO_2 : a ^{13}C and ^{15}N tracer study.

Global Change Biology, **11**, 1816-1827.

Hak, C., I. Pundt, S. Trick, C. Kern, U. Platt, J. Dommen, C. Ordóñez, A. S. H. Prévôt, W. Junkermann, C. Astorga-Lloréns, B. R. Larsen, J. Mellqvist, A. Strandberg, Y. Yu, B. Galle, J. Kleffmann, J. C. Lörzer, G. O. Braathen, and R. Volkamer, 2005:

Intercomparison of four different in-situ techniques for ambient formaldehyde measurements in urban air.

Atmos. Chem. Phys., **5**, 2881-2900.

Hak, C., I. Pundt, S. Trick, C. Kern, U. Platt, J. Dommen, C. Ordonez, A. S. H. Prevot, W. Junkermann, C. Astorga-Llorens, B. R. Larsen, J. Mellqvist, A. Strandberg, Y. Yu, B. Balle, J. Kleffmann, J. C. Lörzer, G. O. Braathen, and R. Volkamer, 2005:

Intercomparison of four different in-situ techniques for ambient formaldehyde measurements in urban air.

Atmos. Chem. Phys., **5**, 2881-2900.

Henne, S., J. Dommen, B. Neiningner, S. Reimann, J. Staehelin, and A. S. H. Prevot, 2005:

Ozone production following export of European emissions by mountain venting in the Alps.

J. Geophys. Res., **110**, D22307, doi:10.1029/2005JD005936.

Henne, S., M. Furger, and A. S. H. Prevot, 2005:

Climatology of mountain venting induced moisture layers in the lee of the Alps.

Journal of Applied Meteorology, **44**, 620-633.

Henne, S., M. Furger, and A. S. H. Prévôt, 2005:

Climatology of mountain venting-induced elevated moisture layers in the lee of the Alps.

Journal of Applied Meteorology, **44**, 620-633

Hinz, K. P., A. Trimborn, E. Weingartner, S. Henning, U. Baltensperger, and B. Spengler, 2005:

Aerosol single particle composition at the Jungfrauoch.

J. Aerosol Sci., **36**, 123-145.

Hueglin, C., R. Gehrig, U. Baltensperger, M. Gysel, C. Monn, and H. Vonmont, 2005:

Chemical characterisation of PM_{2.5}, PM₁₀ and coarse particles at urban, near-city and rural sites in Switzerland.

Atmos. Environ., **39**, 637-651.

Imhof, D., E. Weingartner, C. Ordóñez, R. Gehrig, M. Hill, B. Buchmann, and U. Baltensperger, 2005:

Real-world emission factors of fine and ultrafine aerosol particles for different traffic situations in Switzerland.

Environ. Sci. Technol., **39**, 8341-8350.

Imhof, D., E. Weingartner, A. S. H. Prévôt, C. Ordóñez, R. Kurtenbach, P. Wiesen, J. Rodler, P. Sturm, I. McCrae, A. Sjödin, and U. Baltensperger, 2005:

Aerosol and NO_x emission factors and submicron particle number size distributions in two road tunnels with different traffic regimes.

Atmos. Chem. Phys. Discuss., **5**.

Imhof, D., E. Weingartner, U. Vogt, A. Dreiseidler, E. Rosenbohm, V. Scheer, R. Vogt, O. J. Nielsen, R. Kurtenbach, U. Corsmeier, M. Kohler, and U. Baltensperger, 2005:

Vertical distribution of aerosol particles and NO_x close to a motorway.

Atmos. Environ., **39**, 5710-5721.

Jaffrezo, J. L., G. Aymoz, and J. Cozic, 2005:

Size distribution of EC and OC in the aerosol of Alpine valleys during summer and winter.

Atmos. Chem. Phys., **5**, 2915-2925.

Jaffrezo, J. L., G. Aymoz, C. Delaval, and J. Cozic, 2005:

Seasonal variations of the water soluble organic carbon mass fraction of aerosol in two valleys of the French Alps.

Atmos. Chem. Phys., **5**, 2809-2821.

Jäggi, M., M. Saurer, M. Volk, and J. Fuhrer, 2005:

Effects of elevated ozone on leaf $\delta^{13}\text{C}$ and leaf conductance of plant species grown in semi-natural grassland with or without irrigation.

Environmental Pollution, **134**, 209-216.

Kalberer, M., M. Sax, and V. Samburova, 2005:

Characterization of polymers in nanometer sized atmospheric aerosol particles.

Chimia, **59**, 43.

Körner, C., R. Asshoff, O. Bignucolo, S. Hättenschwiler, S. G. Keel, S. Pelaez-Riedl, S. Pepin, R. T. W. Siegwolf, and G. Zotz, 2005:

Carbon flux and growth in mature deciduous forest trees exposed to elevated CO₂.

Science, **309**, 1360-1362.

McFiggans, G., P. Artaxo, U. Baltensperger, H. Coe, M. C. Facchini, G. Feingold, S. Fuzzi, M. Gysel, A. Laaksonen, U. Lohmann, T. F. Mentel, D. M. Murphy, C. D. O'Dowd, J. R. Snider, and E. Weingartner, 2005:

The Effect of Physical & Chemical Aerosol Properties on Warm Cloud Droplet Activation.

Atmos. Chem. Phys. Discuss., **5**, 8507-8647.

Nessler, R., E. Weingartner, and U. Baltensperger, 2005:

Adaptation of dry nephelometer measurements to ambient conditions at the Jungfraujoch.

Environ. Sci. Technol., **39**, 2219-2228.

Nessler, R., E. Weingartner, and U. Baltensperger, 2005:

Effect of humidity on aerosol light absorption and its implications for extinction and the single scattering albedo illustrated for a site in the lower free troposphere.

J. Aerosol Sci., **36**, 958-972.

Nyeki, S., G. Coulson, I. Colbeck, K. Eleftheriadis, U. Baltensperger, and H. J. Beine, 2005:

Overview of aerosol microphysics at Arctic sunrise: measurements during the NICE renoxification study.

Tellus, **57B**, 40-50.

Ordóñez, C., H. Mathis, M. Furger, S. Henne, C. Hüglin, J. Staehelin, and A. S. H. Prévôt, 2005:

Changes of daily surface ozone maxima in Switzerland in all seasons from 1992 to 2002 and discussion of summer 2003.

Atmos. Chem. Phys., **5**, 1187-1203.

Paulsen, D., J. Dommen, M. Kalberer, A. S. H. Prévôt, R. Richter, M. Sax, M. Steinbacher, E. Weingartner, and U. Baltensperger, 2005:

Secondary organic aerosol formation by irradiation of 1,3,5 trimethylbenzene-NO_x-H₂O in a new reaction chamber for atmospheric chemistry and physics.

Environ. Sci. Technol., **39**, 2668-2678.

Paulsen, D., E. Weingartner, M. R. Alfarra, and U. Baltensperger, 2005:

Volatility measurements of photochemically and nebulizer-generated organic aerosol particles.

J. Aerosol Sci., **In press**.

Pelz, O., W. R. Abraham, M. Saurer, R. Siegwolf, and J. Zeyer, 2005:

Microbial assimilation of plant-derived carbon in soil traced by isotope analysis.

Biology and Fertility of Soils, **41**, 153-162.

Petzold, A., M. Fiebig, L. Fritzsche, C. Stein, U. Schumann, C. W. Wilson, C. D. Hurley, F. Arnold, E. Katragkou, U. Baltensperger, M. Gysel, S. Nyeki, R. Hitznerberger, H. Giebl, K. J. Hughes, R. Kurtenbach, P. Wiesen, P. Madden, H. Puxbaum, S. Vrchoticky, and C. Wahl, 2005:

Particle emissions from aircraft engines - a survey of the European project PartEmis.

Meteorologische Zeitschrift, **14**, 465-476.

Petzold, A., M. Gysel, X. Vancassel, R. Hitznerberger, H. Puxbaum, S. Vrchoticky, E. Weingartner, U. Baltensperger, and P. Mirabel, 2005:

On the effects of hydrocarbon and sulphur-containing compounds on the CCN activation of combustion particles.

Atmos. Chem. Phys., **5**, 3187-3203.

Providoli, I., H. Bugmann, R. T. W. Siegwolf, Buchmann N., and P. Schleppe, 2005:

Flow of deposited inorganic N in two Gleysol-dominated mountain catchments traced with ¹⁵NO₃⁻ and ¹⁵NH₄⁺.

Biogeochem, **76**, 453-475.

Rogiers, N., W. Eugster, M. Furger, and R. Siegwolf, 2005:

Effect of land management on ecosystem carbon fluxes at a subalpine grassland site in the Swiss Alps.

Theoretical and Applied Climatology, **80**, 187-203.

Rosenbohm, E., R. Vogt, V. Scheer, O. J. Nielsen, A. Dreiseidler, G. Baumbach, D. Imhof, U. Baltensperger, J. Fuchs, and W. Jaeschke, 2005:

Particulate size distributions and mass measured at a motorway during the BAB II campaign.

Atmos. Environ., **39**, 5696-5709.

Samburova, V., S. Szidat, C. Hueglin, R. Fisseha, U. Baltensperger, R. Zenobi, and M. Kalberer, 2005:
Seasonal variation of high-molecular weight compounds in the water-soluble fraction of organic urban aerosols.

J. Geophys. Res., **110**, doi:10.1029/2005JD005910.

Sax, M., R. Zenobi, U. Baltensperger, and M. Kalberer, 2005:
Time resolved infrared spectroscopic analysis of aerosol formed by photo-oxidation of 1,3,5-trimethylbenzene and α -pinene.

Aerosol Sci. Technol., **39**, 822-830.

Schneider, J., N. Hock, S. Weimer, S. Borrmann, U. Kirchner, R. Vogt, and V. Scheer, 2005:
Nucleation particles in diesel exhaust: composition inferred from in situ mass spectrometric analysis

Environ. Sci. Technol., **39**, 6153-6161.

Spirig, C., A. Neftel, C. Ammann, J. Dommen, W. Grabmer, A. Thielmann, A. Schaub, J. Beauchamp, A. Wisthaler, and A. Hansel, 2005:

Flux measurements of biogenic VOCs during ECHO2003.

Atmos. Chem. Phys. Discuss., **5**, 465-481.

Steinbacher, M., J. Dommen, C. Ordóñez, S. Reimann, J. Staehelin, S. Andreani-Aksoyoglu, A.S.H. Prevot, 2005:
Volatile organic compounds in the Po basin. Part B: biogenic VOCs.

J. Atmos. Chem., **51**, 293-315.

Steinbacher, M., J. Dommen, C. Ordóñez, S. Reimann, J. Staehelin, and A. S. H. Prévôt, 2005:

Volatile organic compounds in the Po Basin. Part A: anthropogenic VOCs.

J. Atmos. Chem., **51**, 271-291.

Vlasenko, A., S. Sjogren, E. Weingartner, H. W. Gaggeler, and M. Ammann, 2005:

Generation of submicron Arizona test dust aerosol: Chemical and hygroscopic properties.

Aerosol Science and Technology, **39**, 452-460.

Vlasenko, A., S. Sjogren, E. Weingartner, K. Stemmler, H. W. Gaggeler, and M. Ammann, 2005:

Effect of humidity on nitric acid uptake to mineral dust aerosol particles.

Atmos. Chem. Phys. Discuss., **5**, 11821-11860.

Zhang, Q., M. R. Alfarra, D. R. Worsnop, J. D. Allan, H. Coe, R. Canagaratna, and J. L. Jimenez, 2005:

Deconvolution and quantification of hydrocarbon-like and oxygenated organic aerosols based on aerosol mass spectrometry.

Environ. Sci. Technol., **39**, 4938-4952.

Books / Book Sections 2005

Asshoff, R., S. G. Keel, R. T. W. Siegwolf, and C. Körner, 2005:

Tracing arthropod movement in a deciduous forest canopy using stable isotopes.

Structure, diversity and functional aspects of arthropod fauna in Central European canopies.

Baltensperger, U., M. Kalberer, J. Dommen, D. Paulsen, M. R. Alfarra, H. Coe, R. Fisseha, A. Gascho, M. Gysel, S. Nyeki, M. Sax, M. Steinbacher, A. S. H. Prevot, S. Sjögren, E. Weingartner, and R. Zenobi, 2005:

Secondary organic aerosols from anthropogenic and biogenic precursors.

Faraday discussions on atmospheric chemistry, **130**, doi:10.1039/b417367h.

Imhof, D., E. Weingartner, R. Gehrig, and U. Baltensperger, 2005:

Particle size distributions measured at different traffic sites and determination of vehicle emission factors.

Elimination of engine generated nanoparticles; Problems and solutions, U. Brill (Ed.). Haus der Technik Fachbuch, Essen, 79-91.

Keller, J., 2005:

Retrieval of aerosol optical properties using the Multi-angle Imaging Spectro-Radiometer (MISR).

Tropospheric Sounding from Space. ACCENT-TROPOSAT-2 in 2004-5, J. Burrows and P. Borrell (Eds.), Bremen, 116-119.

Conference Proceedings 2005

Andreani-Aksoyoglu, S., J. Keller, A.S.H. Prevot, 2005:

3-dimensional modelling of gaseous and particulate pollutants in Switzerland.

Air Quality Management at Urban, Regional and Global Scale (AQM), Istanbul, Turkey, 26-30 September 2005, 536-545.

Andreani-Aksoyoglu, S., J. Keller, A. S. H. Prévôt, and M. Schultz, 2005:

Modelling of various emission scenarios for 1985-2010 in Switzerland.

Tenth International Conference on harmonization within Atmospheric Dispersion Modelling for regulatory Purposes, Sissi, Crete, Greece, 17-20 October 2005, 468-472.

Baltensperger, U., M. Kalberer, J. Dommen, M. R. Alfarra, H. Coe, J. Duplissy, R. Fisseha, K. Gäggeler, A. Gascho, M. Gysel, A. Metzger, D. Paulsen, M. Sax, A. S. H. Prevot, S. Sjögren, E. Weingartner, and R. Zenobi, 2005:

Investigation of secondary organic aerosol formation from anthropogenic and biogenic precursors in the new PSI smog chamber.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005 97.

Bower, K. N., M. W. Gallagher, T. W. Choulaton, M. J. Flynn, J. D. Allan, H. Coe, J. Crosier, P. Connolly, U.

Baltensperger, E. Weingartner, and S. Sjögren, 2005:

Investigations of cloud-aerosol interactions at the Jungfraujoch mountain-top site in the Swiss Alps during summer and winter CLACE experiments.

EAC 2005, Ghent Belgium, August 28 - September 2, 2005, 133.

Bukowiecki, N., E. P. Trepát, P. K. Hopke, R. Gehrig, M. Hill, B. Buchmann, E. Weingartner, and U. Baltensperger, 2005:

Identification of abrasion particles from railway traffic in urban ambient air with a new three-way PMF model.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 394.

Collaud Coen, M., E. Weingartner, and U. Baltensperger, 2005:

Seasonality and diurnal cycles of aerosol parameters and of their wavelength dependence at the Jungfraujoch.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 172.

Collaud Coen, M., E. Weingartner, and U. Baltensperger, 2005:

Variability and trend of aerosol parameters and of their wavelength dependence at the Jungfraujoch.

Schweizerische Gesellschaft für Meteorologie (SGM), PSI, Villigen, 23 Sept 2005.

Cozic, J., S. Mertes, B. Verheggen, M. Flynn, P. Connolly, K. Bower, A. Petzold, E. Weingartner, and U. Baltensperger, 2005:

Activated fraction of black carbon in mixed phase clouds at the high alpine site Jungfraujoch (3580 m asl) during CLACE campaigns.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 506.

Crosier, J., K. N. Bower, J. D. Allan, H. Coe, U. Baltensperger, E. Weingartner, S. Sjögren, S. Mertes, J. Schneider, D. R. Worsnop, J. T. Jayne, and J. L. Jimenez, 2005:

Comparing winter and summer submicron aerosol chemical composition and size distributions at the Jungfraujoch.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 505.

Dommen, J., and A. Gascho, 2005:

Online Analysis of Organic Aerosols by PTR-MS.

European Aerosol Conference, Ghent, Belgium, 28 .08-02.09.2005, Elsevier.

Dommen, J., and A. Gascho, 2005:

Use of the PTR-MS to measure the aerosol chemical composition.

Second PTR-MS Conference, Obergurgel, Austria.

Duplissy, J., D. Paulsen, M. R. Alfarra, A. Metzger, A. Gascho, E. Weingartner, J. Dommen, A. S. H. Prevot, M. Kalberer, and U. Baltensperger, 2005:

Volatility measurements of reaction chamber generated organic aerosols.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 236.

Ebert, M., M. Inerle-Hof, S. Mertes, S. Walter, J. Schneider, B. Verheggen, J. Cozic, E. Weingartner, and S. Weinbruch, 2005:

Identification of the ice forming fraction of the atmospheric aerosol in mixed-phase clouds by environmental scanning electron microscopy.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 504.

Furger, M., V. Mitev, R. Matthey, M. Collaud Coen, and E. Weingartner, 2005:

Long-range transport of aerosols to Switzerland in August 2003.

EGU General Assembly 2005, Vienna, Austria, 24-29 April 2005, EGU05-A-03941.

Furger, M., R. Werner, V. Mitev, M. Frioud, B. Neiningner, and A. S. H. Prévôt, 2005:

Aerosol measurements in the Rhine Valley during foehn – another FORM perspective.

ICAM/MAP2005, Zadar, Croatia, 23 - 27 May 2005, 272-275.

Gehrig, R., M. Hill, P. Lienemann, C. N. Zwicky, N. Bukowiecki, E. Weingartner, U. Baltensperger, and B. Buchmann, 2005:

Railway traffic - a source of fine particles? Contributions of railway traffic to local PM10 concentrations.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 256.

Mertes, S., B. Verheggen, J. Schneider, M. Ebert, S. Walter, A. Worringer, M. Inerle-Hof, J. Cozic, M. J. Flynn, P. Connolly, K. N. Bower, and E. Weingartner, 2005:

Sampling and physico-chemical characterisation of ice nuclei in mixed phase clouds at the high alpine research station Jungfraujoch (3580 m asl) during CLACE.

EAC 2005, Ghent, Belgium, 130.

Metzger, A., and J. Dommen, 2005:

Evaluation of the degradation scheme of 1,3,5 trimethyl benzene (TMB) using smog chamber data.

EGU, Vienna, 2005.

Nessler, R., B. Verheggen, E. Weingartner, and U. Baltensperger, 2005:

Effect of humidity on aerosol light absorption and its implications for extinction and single scattering albedo at the Jungfraujoch.

European Geoscience Union, Vienna, Austria, 24-29 April 2005.

Ordoñez, C., A. S. H. Prévôt, and J. Staehelin, 2005:

Emissions from Road Traffic and Surface Ozone in Switzerland.

Transport and Air Pollution - 14th International Symposium, Graz, Austria, 1 - 3 June, 2005, Univ.-Prof. Dr. Helmut Eichlseder, 41-50.

Rogiers, N., W. Eugster, and M. Furger, 2005:

Comparison of NEE at a protected wetland and an extensively used grassland in the Swiss sub-Alps.

EGU first assembly, Vienna, Austria, 27/04/05, EGU05-A-06260.

Saathoff, H., C. Linke, K.-H. Naumann, E. Weingartner, and U. Schurath, 2005:

Aerosol yields from the ozonolysis of a-pinene and limonene.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 357.

Sandradewi, J., M. Furger, A. S. H. Prevot, E. Weingartner, R. Schmidhauser, S. Szidat, and U. Baltensperger, 2005:

Characterization of aerosol particles due to wood burning in populated area and motor vehicles on highway south of St. Gotthard tunnel.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 718.

Sjögren, S., R. Alfarra, J. Cozic, B. Verheggen, U. Baltensperger, E. Weingartner, J. Crosier, K. N. Bower, M. Gysel, J. D. Allan, and H. Coe, 2005:

Hygroscopic properties linked with chemical composition of aerosol particles at the high alpine site Jungfraujoch during the CLACE campaigns.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 507.

Sjögren, S., J. Duplissy, U. Baltensperger, and E. Weingartner, 2005:

Hygroscopic properties and timescale of equilibrium for aerosol mixtures of ammonium sulphate and adipic acid.

EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 235.

Van Ekeren, J. S., M. Fierz, H. Burtscher, H. Lihavainen, E. Weingartner, and U. Baltensperger, 2005:
Cloud particle measurements with an new CCN counter at remote locations in Europe.
International Conference on Environmental Technology, Rhodos, Greece, 1.9.2005-3.9.2005, Global-Nest, 245.

Van Ekeren, J. S., M. Fierz, H. Burtscher, E. Weingartner, and U. Baltensperger, 2005:
Properties and calibration of a new expansion CCN counter.
EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 295.

Verheggen, B., J. Cozic, E. Weingartner, U. Baltensperger, S. Mertes, M. Flynn, P. Connolly, K. Bower, M. Gallagher, J. Crosier, H. Coe, and A. Petzold, 2005:
Activation behaviour of aerosol particles and black carbon in mixed-phase clouds.
EGU General Assembly, Vienna, Austria, European Geosciences Union.

Verheggen, B., J. Cozic, E. Weingartner, S. Mertes, M. Flynn, P. Connolly, K. Bower, M. Gallagher, and U. Baltensperger, 2005:
Nucleation and activation of aerosol particles during CLACE campaigns (Jungfrauoch, 3580 metres a.s.l., Switzerland).
European Aerosol Conference, Ghent, Belgium, 28 August - 2 September, Elsevier, 131.

Vesna, O., K. Stemmler, S. Sjoegren, E. Weingartner, M. Kalberer, and M. Ammann, 2005:
Oxidative processing and mass transfer properties of fatty acids associated with aerosol particles.
European Geoscience Union, Vienna, Austria, 24-29 April 2005.

Walter, S., J. Schneider, N. Hock, J. Curtius, S. Borrmann, S. Mertes, E. Weingartner, B. Verheggen, J. Cozic, and U. Baltensperger, 2005:
Mass spectrometric analysis of residuals from small ice particles and from supercooled cloud droplets during CLACE-3 and CLACE-4.
EAC 2005, Ghent, Belgium, August 28 - September 2, 2005, 132.

Walter, S., J. Schneider, N. Hock, J. Curtius, S. Borrmann, S. Mertes, E. Weingartner, B. Verheggen, J. Cozic, and U. Baltensperger, 2005:
Mass spectrometric analysis of ice and supercooled cloud residuals during CLACE-3.
European Geoscience Union, Vienna, Austria, 24-29 April 2005.

Weingartner, E., B. Verheggen, J. Cozic, S. Sjoegren, J. S. v. Ekeren, U. Baltensperger, S. Mertes, K. N. Bower, M. Flynn, J. Crosier, M. Gallagher, H. Coe, S. Walter, J. Schneider, N. Hock, J. Curtius, S. Borrmann, A. Petzold, M. Ebert, M. Inerle-Hof, and S. Weinbruch, 2005:
An overview of the Cloud and Aerosol Characterization Experiments (CLACE) conducted at a high alpine site in the free troposphere (solicited).
European Geosciences Union General Assembly, Vienna, Austria, 24-29 April 2005.

Weingartner, E., B. Verheggen, J. Cozic, S. Sjögren, J. Duplissy, J. S. Van Ekeren, U. Baltensperger, S. Mertes, K. N. Bower, M. Flynn, P. Connolly, J. Crosier, M. Gallagher, H. Coe, T. Choulaton, S. Walter, J. Schneider, N. Hock, J. Curtius, S. Borrmann, A. Petzold, S. Henning, T. Rosenorn, M. Bilde, M. Ebert, M. Inerle-Hof, A. Worringer, S. Weinbruch, E. Fries, E. Starokozhev, W. Püttmann, W. Jaeschke, P. Aalto, A. Hirskko, and M. Kulmala, 2005:
An overview of the cloud and aerosol characterization experiments (CLACE) conducted at the high alpine research station Jungfrauoch in Switzerland.
EAC 2005, Ghent, Belgium, 129.

Theses 2005

Fisseha, R., 2005:
Gas and aerosol phase determination of water soluble compounds in the atmosphere - field and smog chamber studies.
Dissertation ETH No. 16094, Eidgenössische Technische Hochschule ETH, Zurich, Switzerland, 125 pp.

Henne, S., 2005:
Characterization of high alpine pollution plumes.
Dissertation ETH Nr. 15949, Eidgenössische Technische Hochschule ETH, Zurich, Switzerland, 127 pp.

Rogiers, N., 2005:
Impact of site history and land-management on CO₂ fluxes at a grassland in the Swiss Pre-Alps.

PhD Thesis, Institute of Geography, University of Bern, Switzerland, Bern, 175 pp. ([pdf](#), 2.3 MB)

Sax, M., 2005:

Analysis of the chemical composition of secondary organic aerosol.

Dissertation ETH Nr. 16288, Eidgenössische Technische Hochschule ETH, Zurich, Switzerland.

Newspaper Articles 2005

Gloor, M., 2005:

100 Millionen kleiner Beiträge sind auch wieder ein grosser.

Die Botschaft, Döttingen, Schweiz, 8. Januar 2005. ([pdf](#), 0.9 MB)

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