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Introduction to papers published from the AIRMON symposium, Marseille, France, 15–19 June 2014

Peter Görner

Dr Peter Görner introduces papers published from the AIRMON symposium on Modern Principles of Air Monitoring and Biomonitoring.

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A laboratory study of the performance of the handheld diffusion size classifier (DiSCmini) for various aerosols in the 15–400 nm range

S. Bau,* B. Zimmermann, R. Payet and O. Witschger

Comparison of DiSCmini data to reference data for polydisperse test aerosols in terms of diameter, number concentration and alv-LDSA.

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An evaluation of the "GGP" personal samplers under semi-volatile aerosols: sampling losses and their implication on occupational risk assessment

George C. Dragan, Dietmar Breuer, Morten Blaskowitz, Erwin Karg, Jürgen Schnelle-Kreis,* Jose M. Arteaga-Salas, Hermann Nordsieck and Ralf Zimmermann

Left: GGP personal sampler. Right: partcile–vapour fractionation of a semi-volatile aerosol.

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Development and field testing of a miniaturized sampling system for simultaneous sampling of vapours and droplets

Dietmar Breuer,* George C. Dragan, Claudia Friedrich, Carsten Möhlmann and Ralf Zimmermann

The sampling of semi volatiles (SV) in workplaces may lead to inaccurate results as measurements can be affected by sampling bias.

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Evaluation of bioaerosol exposures during hospital bronchoscopy examinations

Jacques Lavoie,* Geneviève Marchand, Yves Cloutier, Stéphane Hallé, Sylvie Nadeau, Caroline Duchaine and Gilbert Pichette

During hospital bronchoscopy examinations, aerosols emitted from the patient's during coughing can be found suspended in the ambient air. The aerosols can contain pathogenic microorganisms.

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Measurement of organic and elemental carbon in downtown Rome and background area: physical behavior and chemical speciation

Pasquale Avino,* Maurizio Manigrasso, Alberto Rosada and Alessandro Dodaro

PM10 carbonaceous fraction in urban air and at a background site is deeply investigated in terms of physical behavior (spatial, vertical and temporal trends) and chemical composition (elements, ions, organic fraction).

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A statistical comparison of active and passive ammonia measurements collected at Clean Air Status and Trends Network (CASTNET) sites

Melissa A. Puchalski,* Christopher M. Rogers, Ralph Baumgardner, Kevin P. Mishoe, Garry Price, Michael J. Smith, Nealson Watkins and Christopher M. Lehmann

This study compared ambient ammonia concentrations measured by the Ammonia Monitoring Network (AMoN) with active and passive samplers at Clean Air Status and Trends Network (CASTNET) sites.

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Mineralization pathways of organic matter deposited in a river–lake transition of the Rhone River Delta, Lake Geneva

Marie-Eve Randlett, Sebastien Sollberger, Tonya Del Sontro, Beat Müller, Juan Pablo Corella, Bernhard Wehrli and Carsten J. Schubert*

During the éLEMO endeavour sediment cores were retrieved to study the degradation pathways of lacustrine organic material.

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Representativeness of shorter measurement sessions in long-term indoor air monitoring

M. Maciejewska* and A. Szczurek

Indoor air quality (IAQ) considerably influences health, comfort and the overall performance of people who spend most of their lives in confined spaces.

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Experimental and modeling study of pure terephthalic acid (PTA) wastewater transport in the vadose zone

Cuiling Wang, Changli Liu,* Lixin Pei, Yajie Pang, Yun Zhang and Hongbing Hou

PTA wastewater discharged from a factory was selected as the research object in this project and COD_{cr} was selected as the characteristic pollution factor.