Abstract IAQ Padova

A comparison of diffusion tube determinations of formic and acetic acid concentrations in air Maarten van Bommel<sup>1</sup>, Lorraine Gibson<sup>2</sup>, Simon Watte<sup>3</sup>, Velichka Kontozova<sup>4</sup> and David Thickett<sup>5</sup>

1: ICN 2: University of Strathclyde 3: Oxford Brooks University 4: University of Antwerp 5: British Museum, currently English Heritage

After inconsistent results of air concentration measurements of volatile organic acids in display cases at the Museum of London, a comparison of methods was carried out amongst the institutions most actively involved in these determinations. Each aboratory prepared their own diffusion tubes and sent them to ICN for exposure to known air concentrations of formic and acetic acid in a calibrated exposure thamber. After exposure the tubes were all retunned to their origin and analysed. At the same time batches of tubes from the different laboratories were exposed in display cases at various locations and analysed after return to their origin. Results of the exposures and analyses will be presented and discussed.