Proceedings of the 17th International Symposium on
Polycyclic Aromatic Compounds
Bordeaux, France, October 25-29, 1999

Part II

CONTENTS

Preface / vii
List of Committee Members / ix
Acknowledgements / xi

ENVIRONMENTAL CHEMISTRY OF PAC

Determination of Polycyclic Aromatic Hydrocarbons in Urban Runoff Samples from the “Le Marais” Experimental Catchment in Paris Centre
A. Gonzalez, R. Moilleron, G. Chebbo and D.R. Thévenot / 1

Seasonal and Geographical Distribution of PAHs in Mussels, Mytilus Edulis, Collected from an Urban Harbour
J. Hellou, T. King and D.E. Willis / 21

Water-Particle Distribution of Hydrophobic Micro Pollutants in Storm Water Runoff
H. Kumata, K. Masuda, J. Yamada and H. Takada / 39

Sorption of Pyrene to two Estonian Soils

The Spatial and Temporal Variations of Polycyclic Aromatic Hydrocarbons (PAHs) in Environmental Matrices in the Czech Republic

Determination of PAHs in Combustion-Related Samples and in SRM 1597, Complex Mixture of PAHs from Coal Tar

Sourcing of Fossil Fuel-Derived PAH in the Environment
C. McRae, C. Sun, C.F. McMillan, C.E. Snape and A.E. Fallick / 97

PAHs in Sediments Contaminated by the Haven Oil Spill (Genoese Bay)
Y. Le Dréau, P. Doumenq, J. Lamontagne, J. Kister and G. Mille / 111

Application of SPMDS for PAH Sampling in the DEZA Chemical Factory
J. Caslavsky, Z. Zdrahal and M. Výtopilova / 123
Use of Surfactants to Enhance the Removal of PAHs from Soil
J.C. Dur, R. Rama, C. Mougin and V. Chaplain / 143

Polycyclic Aromatic Compounds in West Siberia Environment
Y.P. Turov and M. Gooznjaeva / 155

Analysis by GC-MS of Polycyclic Aromatic Hydrocarbons in a Cream Containing Coal Tar
B. Disdier, C. Arfi, J. Pastor, A.M. Pauli and H. Portugal / 169

PAC IN ATMOSPHERIC ENVIRONMENT

Comparison of Polycyclic Aromatic Hydrocarbons and Nitropolycyclic Aromatic Hydrocarbons in Airborne and Automobile Exhaust Particulates

SO₂-Enhanced Nitration of Fluoranthene and Pyrene Adsorbed on Particulate Matter in the Heterogeneous Reaction in the Presence of NO₂
K. Inazu, N. Tsutsumi, K.I. Aika and Y. Hisamatsu / 191

Concentrations and Phase Distribution of Nitro-PAH in the Queensway Road Tunnel in Birmingham, United Kingdom
M. Dimashki, S. Harrad and R.M. Harrison / 205

Gas/Particle Partition Measurements of PAH at Hazelrigg, U.K.

Correlations Between PAHs and CO, NO, NO₂, O₃ along an Urban Street
F. Valerio, A. Stella and A. Munizzi / 235

Sampling and Analysis of Polycyclic Aromatic Hydrocarbons (PAH) and Oxygenated PAH in Diesel Exhaust and Ambient Air
E. Leotz-Gartziandia, V. Tatry and P. Carlier / 245

ENVIRONMENTAL TOXICITY OF PAC

Influence of Exposure Conditions on the Bioavailability of Fluoranthene to Daphnia Magna (Cladocera)
B. Clément, C. Muller and G. Verrhiest / 259

In Vivo Assessment of the Genotoxicity of PAH-Contaminated Soils in Rats Exposed by Natural Routes
M. Billeret, B. Collomb, T. Buronfosse and P. Berny / 275

AP-PCR Fingerprinting for Detection of Genetic Damage Caused by Polycyclic Aromatic Hydrocarbons
D. Savva / 291
Relative Genotoxicities of PAH of Molecular Weight 252 AMU in Coal Tar-Contaminated Sediment
C.H. Marvin, S. Mehta, D. Lin, B.E. McCary and D.W. Bryant / 305

List of Participants / 319

Keywords / 341

Index of Authors / 343