

Advanced Emissions Aftertreatment

for Diesel Applications

TABLE OF CONTENTS

2000-01-1922 A Method for Assessing the Low Temperature Regeneration Performance of Diesel Particulate Filters and Fuel-borne Catalysts	1
B. Terry and P. Richards The Associated Octel Company Limited	
2000-01-1923 Particulate Traps for Construction Machines Properties and Field Experience.....	9
J. Czerwinski AFHB F. Jaussi Liebherr M. Wyse BUWAL A. Mayer TTM	
2000-01-1924 Particulate Trap Technology for Light Duty Vehicles with a New Regeneration Strategy.....	21
Gennadi Zikoridse, Amin Velji and Enrico Heidrich Vehicle Research Institute; University of Applied Sciences Dresden Thierry Seguelong and Wolfgang Naschke Rhodia Terres Rares Friedrich W. Kaiser Emitec GmbH	
2000-01-1925 Emissions Characteristics of Diesel Vehicles Equipped with Particulate Filters and Using Fuel Additive for Regeneration	33
P. Richards, M. W. Vincent and S. L. Cook The Associated Octel Company Limited	
2000-01-1926 Non Thermal Plasma Aftertreatment of Particulates – Theoretical Limits and Impact on Reactor Design	45
Suzanne E. Thomas, Anthony R. Martin, David Raybone, James T. Shawcross, Ka Lok Ng and Phil Beech AEA Technology plc. J. Christopher Whitehead Department of Chemistry, University of Manchester	

2000-01-1927 Particulate Traps used in City-Buses in Switzerland	59
A. Mayer	
TTM	
R. Evéquo and M. Wyser-Heusi	
BUWAL	
J. Czerwinski	
AHTA	
U. Matter	
ETH	
P. Graf	
EMPA	
2000-01-1928 Toxicity of Diesel Engine Exhausts : Induction of a Pro-Inflammatory Response and Apoptosis in an In Vitro Model of Lung Slices in Biphasic Organotypic Culture	69
Elsa Le Prieur and Jean Paul Morin	
VACOMED-INSERM E9920	
Emmanuelle Vaz	
Laboratoire de Médecine Légale	
Anne Bion and Frédéric Dionnet	
CERTAM/CORIA	
2000-01-1930 Novel Approaches to an Efficient Trap of Diesel Particulates and its Regeneration	79
Masahiro Shioji	
Kyoto University	
Shunsaku Nakai	
Osaka Gas Co., Ltd.	
2000-01-1932 Sulfur Sorbate Catalysts for Diesel Aftertreatment: Temperature Effects on the Release of Sulfur	85
J. E. Parks II, J. A. Watson, G. L. Campbell,	
G.J. Wagner and L. E. Campbell	
Goal Line Environmental Technologies LLC	
2000-01-1933 Integration of Exhaust Gas Recirculation, Selective Catalytic Reduction, Diesel Particulate Filters, and Fuel-Borne Catalyst for NOx/PM Reduction	93
Magdi Khair and	
Southwest Research Institute	
Jacques Lemaire	
Rhodia	
Stefan Fischer	
Siemens	
2000-01-1934 Emissions Reduction and Improved Fuel Economy Performance From a Bimetallic Platinum/Cerium Diesel Fuel Additive at Ultra-Low Dose Rates	101
James M. Valentine, Jeremy D. Peter-Hoblyn and G. K. Acres	
Clean Diesel Technologies, Inc.	

**2000-01-1935 Influence of Engine Parameters on Exhaust Odor
in DI Diesel Engines 111**

Hideyuki Tsunemoto, Murari Mohon Roy,
Rahman Md. Montajir and Hiromi Ishitani
Kitami Institute of Technology
Toshitaka Minami
ISUZU Motor Co. Ltd.

**2000-01-1936 Effects of High Pressure Injection and Oxidation
Catalyst on Exhaust Odor in DI Diesel Engines 121**

Murari Mohon Roy, Hideyuki Tsunemoto,
Hiromi Ishitani and Jiro Akiyama
Kitami Institute of Technology
Toshitaka Minami
Isuzu Motor Co. Ltd.

**2000-01-1931 Conversion of Nitric Oxide to Nitrogen Dioxide
Using Hydrogen Peroxide..... 131**

Insu Kim, Jongbum Park and Shinichi Goto
Mechanical Engineering Laboratory
Choongwon Lee
Kyungpook National University