

## CONTENT

	Page
Credits and Acknowledgements	5
Preface	7
The Chemistry of Smog	9
Carbon Monoxide : Its Role in Photochemical Smog Formation	10
Contribution to the Reaction Kinetics of Water Soluble Aerosols and SO <sub>2</sub> in Air at PPM	15
The Effect of Water Vapor on Ozone Synthesis in the Photo-Oxidation of Alpha –pinene	37
Oxidation of Atmospheric SO <sub>2</sub> by Products of the Ozone-Olefin Reaction	50
Electron Spin Resonance and Optical Studies of the Interaction between NO <sub>2</sub> and Unsaturated Lipid Components	55
Carbon Monoxide as Pollutant and Its Analytic Detection	73
Continuous Determination of Carbon Monoxide by Frontal analysis	74
Continuous Measurement of Carbon Monoxide in Streets 1967-1969	81
Levels of Carbon Monoxide Recorded on Aircraft Flight Decks	94
Carbon Monoxide Research – Recent and Remote	105
Monitoring Carbon Monoxide in Ambient Air	110
Motor Vehicle Emissions	115
Composition, Size and Control of automotive Exhaust Particulates	116
Concentration and Particle Size Distribution of particulate Emissions in Automobile Exhaust	129
Polycyclic Aromatic Hydrocarbons from Gasoline-Engine and Liquefied Petroleum Gas Engine Exhausts	142
Contribution of Motor Vehicle Exhaust, Industry, and Cigarette Smoking to Community Carbon Monoxide Exposures	152
Nitrogen Compounds other than NO <sub>x</sub> in Automobile Exhaust Gas	165
An Evaluation of the Fuel Factor through Direct Measurement of Photochemical Reactivity of Emissions	169
The Oxides of Nitrogen and Their Detection in Automotive Exhaust	190