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Nota di contenuto	Book Cover; Title; Contents; Preface; Inaugural address by Sardar Farooq Ahmad Khan Laghari, President of Islamic Republic of Pakistan; Address by Nawab Muhammad Yousaf Talpur, Federal Minister of Food, Agriculture and Livestock, Islamabad, Pakistan; Welcome address by Dr Zafar Altaf, Chairman, Pakistan Agricultural Research Council and Secretary, Ministry of Food, Agriculture and Cooperatives, Government of Pakistan, Islamabad, Pakistan; Statement from the UNIDO Representative, Dr Balasubramanyan Sugavanam, Workshop on Ecotoxicology, Islamabad, Pakistan; List of contributors; Abbreviations PROLOGProlog; NEW MEASURING TECHNIQUES; The Potential and Limitations of New Technical Approaches to Ecotoxicology Monitoring; Environmental Toxicity Assessment Using Luminescent Bacteria; Fluorescence in situ Hybridization en Suspension (FISHES) Using Biotin-

labeled DNA Probes for Measuring Genetic Expression of Metallothionein and Cytochrome P-450 1A1 (CYP1A1) in Rainbow Trout Hepatoc; Ecotoxicology Testing; Effective Use in Field Monitoring; Solid Phase Testing of Aquatic Sediments Using *Vibrio fischeri*: Test Design and Data Interpretation

Use of Radiolabeled Chemicals in Agricultural and Environmental Studies: Transport and Degradation of Pesticides in Lower Sand LayersTESTS USING PLANTS, ALGAE, ETC; Use of Aquatic Plants in Ecotoxicology Monitoring of Organic Pollutants: Bioconcentration and Biochemical Responses; QSAR Studies of Algal Toxicity; Acute Exposure Phytotoxicity Assay Based on Motility Inhibition of *Chlamydomonas variabilis*; Validation of a Microplate-Based Algal Lethality Test Developed with the Help of Flow Cytometry; APPLICATION OF MONITORING TECHNIQUES

The Role of UNIDO on Ecotoxicology Monitoring in Developing CountriesAgroecotoxicology in the Developing Asian Region; Pakistan; Ecotoxicology Monitoring of Industrial Effluents; Biodegradation Testing in the Regulatory Environment; Some Observations on Biodegradability Testing of Chemicals; CASE STUDIES; The Austrian Water Quality Monitoring System and its Integration into the Water Management Concept; Bromate Survey on European Water Utilities; Pesticide Residues in Foodstuffs in Pakistan: Organochlorine, Organophosphorus and Pyrethroid Insecticides in Fruits and Vegetables The Effects of Industrial Wastes on Nitrification Processes Found Within Wastewater Treatment WorksEnvironmental Audit of a Former Soviet Port; Biological and Environmental Properties of Nitro-, Nitramine- and Nitrate Compounds: Explosives and Drugs; Application of QSPR and QSAR Studies in Environmental Toxicology Assessment; The Idrija Mercury Mine, Slovenia, a Semi-Millennium of Continuous Operation: An Ecological Impact; RISK ASSESSMENT, SAFETY AND ECONOMICS .; EC Environmental Risk Assessment of New and Existing Chemicals; Private Public Sector Cooperation to Improve Pesticide Safety Standards in Developing Countries

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#### Sommario/riassunto

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Measurement of the extent of the toxic insult caused by the substance involved is of importance when undertaking an environmental toxicology assessment. This text outlines some of the measurement techniques that have been recently developed and

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