I. Risk assessment and environmental impact

Land degradation processes (soil pollution, erosion & salinization) Pollution of the Aquatic ecosystems (water column, sediments & eutrophication) Air Pollution (Mobile, fixed industrial & Landfill sources) Global climate change, C and N cycling

II. Wastewater & solid waste management, treatment and reuse

Domestic & industrial wastewater Municipal, animal, agro-food and hazardous wastes Sewage sludge

Treatment technologies

Physicochemical & membrane processes

Aerobic & anaerobic processes, wetlands

Integration of biological & physicochemical processes Nutrient removal (N and P)

Emerging pollutants (endocrine disruptors, micropollutants, etc) Agronomic valorization



III. Strategies for the protection and remediation of natural environments

Soil & aquatic environments including sediments Appropriate remediation technologies

Phytoremediation, bioremediation, bioaugmentation, biowaste addition, Electrokinetics, other techniques

Ecological processes and biocontrol

Sustainable agriculture

Control and modelling of environmental processes



IV. Microbial ecology and molecular biology applications for a better environmental control

Ecology of the natural and man made environments Interactions between microorganisms Interactions between microorganisms and plants Functional and structural diversity of bacteria Environmental enzymes

V. Environmental education and legislative aspect

Ecosystems and education Way of life and sustainable environment Health risks Legislative aspect for environmental protection Water & organic waste treatment Soil conservation

VI. New perpectives

Renewable energy production from waste & wastewater High value products from wastes other than biofuels Agriculture & forest management for a better control of greenhouse gases Technology needs in the developing world Etc

* The different items included under each topics are only indicative and not exclusive. The submission of works on another subjects within these topics are encouraged by the organizers, particularly new aspects

