REPORT OF ROUND TABLE SESSION 4

ORGANIC WASTE TREATMENT: SAFETY IMPLICATIONS

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The number of contributions has been 44 (oral and poster presentations), distributed as indicated in the following Table. Chairman has proposed some questions (see next Table) to open discussion.

<table>
<thead>
<tr>
<th>Subject and topics</th>
<th>Questions for discussion</th>
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<tbody>
<tr>
<td>Composting (17): Study of the process (microbiology; biochemistry; nitrogen dynamics; optimal conditions; effect of aeration, of raw material, of inoculum; evolution of some parameters); Co-composting; Isolation of microorganisms; Phytotoxicity of end products; Studies on specific substrates (olive oil mill waste; pig manure,...)</td>
<td>Is overcome the old discussion about which of these treatment is the best?</td>
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<td>Anaerobic digestion (10): Pre-treatments; Thermophilic processes; Co-digestion; Industrial scale facilities; Agricultural use of digested products</td>
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<td>Additives (5): Zeolites; Chemical additives to composting; Effect of different black box additives (“magic powders”) to composting</td>
<td>Many commercial products in the market. What to do?</td>
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<td>Pathogens reduction (3): Composting versus chemical processes; Physical processes; Thermal processes</td>
<td>Standardization of methods? Or standardization of requirements?</td>
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<td>Modeling (3): Nitrification-denitrification system (NDN); Composting systems</td>
<td>Is more work needed? Are these developments useful?</td>
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<td>Combined systems (2); Solid/liquid phase separation (S/L) + NDN + Phosphorous precipitation; Anaerobic digestion + S/L + pH control + concentration by evaporation/condensation</td>
<td>These complex facilities are producing new products, substrates and services. Is a new view necessary?</td>
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<td>Bioremediation (2): Phytotoxicity removal</td>
<td>What about xenobiotic compounds? Is a more intensive work required?</td>
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<td>Mixtures of organic wastes for soil application (2)</td>
<td>Is the organic waste application to soil a treatment or an end use? Studies about soils as a biochemical reactor are required</td>
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