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**Nanotechnology for environmental solutions and remediation**

At 252nd ACS National Meeting & Exposition

Philadelphia, Pennsylvania

August 21-25, 2016

Abstract Deadline: March 21, 2016

Nanomaterials and nanotechnology are promising fields for industrial development of innovative products that achieve higher efficiency due to the tailorable properties of the particles. Among such features, companies working in energy are interested in their increased conductivity, optimization of energy consumption, reduction of weight, and more, while foodand medical industries focus on their increased opacity, antibacterial activity and coating of hydrophobic compounds among others. Moreover, the maximized surface charge of these particles can be also used to capture pollutantsfrom indoor air and vehicles exhausts, while nano-membranes are used to reduce agrochemicals in drinking water anddesalinization of marine water in desert areas. Even more, in the last decade, novel nanocomposites were developed as nano silk, chitosan and nano cellulose and many cases of production of nano metals by microorganisms were described. This findings can be integrated with inorganic nanoparticles and chemicals covering all areas of current technological research.

In this frame, this symposium aims to bring together novel research on application of nanomaterials, green production of nanomaterials, methods for environmentalremediation, nano-coatings that reduce the use of toxic chemical agents, nanotrojan effects, and research on methods for recycling and recover of used nanomaterials are also of great interest for this meeting. In summary, we aim to gather researchers working for the sustainable development of environmental friendly nanotechnology that can provide solutions to reduce the carbon footprint of the global economy with developments with industrial applicability in any field.

Please submit your abstracts using the ACS Meeting Abstracts Programming System (MAPS) at http://maps.acs.org. General information about the conference can be found at www.acs.org/meetings. Any other inquiries should be directed to the symposium organizers:

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