

# Measurement Needs for Emerging Materials & Technologies



**3<sup>rd</sup> and 4<sup>th</sup> March 2010**  
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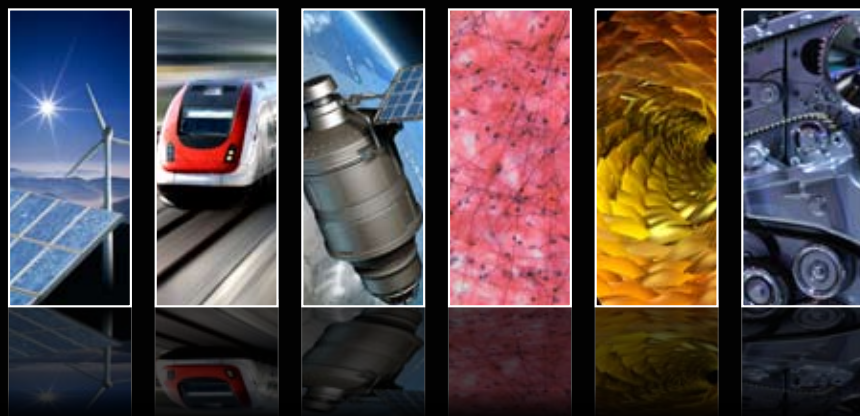
## Background

Exciting emerging technologies are based on new and complex materials. For these technologies to become commercial successes there should be international agreement on the performance characteristics of the devices and components being developed as well as on the properties of the materials making up these devices. Such an agreement will depend critically on all parties using common measurements for the particular characteristic or property of interest. These measurements can be developed most efficiently through international cooperation.

In order to make the most effective use of researchers involved with VAMAS, the work must be focused on the most critical measurement needs for applications based on emerging materials. The symposium will aim to identify and prioritize material measurement needs relevant to rapidly growing technologies.

## Technical themes

- Carbon nanotubes - electronic, sensor, and composite applications
- Materials such as TiO<sub>2</sub> of importance for both nanoparticles and photocatalysis
- Materials for thermoelectric applications
- Fuel cell materials, including nafion and alternatives
- Materials for organic photovoltaics



The Versailles Project on Advanced Materials and Standards (VAMAS) was formed in 1982 with the mission of fostering world trade in products that depend on advanced materials through international collaborations that provide the technical basis for harmonization of measurement methods, codes of practice and standards.

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Supported by the National  
Science Foundation, USA

