Nanotechnology

20–25 February 2005
Luxor, Egypt

Nanotechnology has officially been recognized as the leading technology of the 21st century. The **International Conference on Nanotechnology: Science and Application [NanoTech Insight'05]**, to be held 20–25 February 2005 in Luxor, Egypt will provide a forum for nanoscientists to discuss the latest developments in this state-of-the-art field. The meeting will emphasize the multidisciplinary nature of nanoresearch. Chemists, biologists, physicists, and engineers are all invited to participate and contribute on the following topics: single molecules, self-assembly, bionanotechnology nanomaterials (includes carbon nanotubes), nanofabrication, supramolecular chemistry, molecular modeling, and simulations at the nanoscale.

As a burgeoning new field, young scientists and students, and female researchers in particular, are strongly encouraged to participate. It is hoped through involvement in such a meeting, young researchers, under the guidance of leading scientists, will be inspired to understand, pursue, and enhance the goals of nanotechnology. Researchers from developing countries are also strongly encouraged to participate; they will receive significant reductions in registration fees. As a rapidly developing science with many applications, nanoscience offers many great promises for the future. The organizers of NanoTech Insight, hope that this promised future can be shared among all human communities.

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www.nanoinsight.net

Nuclear Analytical Methods

17–22 April 2005
Rio de Janeiro, Brazil

The **8th International Conference on Nuclear Analytical Methods in the Life Sciences (NAMLS)** will be held 17–22 April 2005, in Rio de Janeiro. This is one of a series of international conferences organized to promote the development and application of nuclear and related analytical methods in the life sciences.

The life sciences encompass a broad range of disciplines including agriculture, biology, biochemistry, botany, bio (medical) technology, cosmetics, environment, food processing, life systems technologies, medicine, microbiology, nutraceuticals, pharmaceuticals, radiation biology, virology, and zoology. Nuclear analytical methods involve techniques utilizing properties of the nucleus (like activation analysis, radiotracer studies, mass spectrometry), or combinations of nuclear and electronic properties (like NMR, Mössbauer spectroscopy). X-ray fluorescence spectrometry and PIXE are related techniques that use similar equipment.

The conference will address the following life-science topics:

- innovation and metrology
- human and animal health and disease
- environmental studies
- food chain

Following is a list of selected lecture titles:

- "Clinical and Occupational Medicine Using Nuclear Analytical Methods," Vladimir Zaichik
- "Country Reports on the Use of Nuclear Analytical Methods in the Life Sciences in Latin America," Matthias Rossbach
- "Environmental Sources of Pollution," Paulo Artaxo
- "Health Effects of Aerosols," Reynaldo Luiz Victoria
- "Low-Level Trace-Element Analysis," Rolf Zeisler
- "Metrology As Applied to the Use of Nuclear Analytical Methods in the Life Sciences," Kaj Heydorn
- "Nuclear Analytical Methods in Agriculture and in Food Research and Production," Epaminondas S.B. Ferraz
- "Quality Control and Reference Materials," Robert Greenberg
- "Trace Elements in Health and Disease with Special Reference to Selenium," Dietrich Behne

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