



## **SYMPOSIUM ON NANOTECHNOLOGY**

**Friday, July 29, 2005**

**10:00 a.m.-4:30 p.m.**

**\$295 members/\$345 nonmembers**

**Registration:** <http://www.wfs/>

**Information:** **Dr. Raj Bawa, 703-582-1745** or [bawabio@aol.com](mailto:bawabio@aol.com)

### *INTRODUCTIONS:*

**Timothy C. Mack**, president, World Future Society, Bethesda, Maryland

**Raj Bawa (chair)**, adjunct assistant professor, Rensselaer Polytechnic Institute, Troy, New York; president, Bawa Biotechnology Consulting LLC, Arlington, Virginia

*This symposium on nanotechnology represents a new endeavor for the World Future Society in terms of preconference activities. In response to a substantial number of requests, we are beginning an "exploration series" designed to provide an outline of several critical new fields with the potential for significant impact on the social, economic, and cultural fabric of modern society. This format offers a great deal of in-depth detail, nuance, and audience dialogue, and a chance to work in a collegial manner with the leading lights in these new fields.*

### **Nanotechnology: The Future is Now**

Nanotechnology involves research and development at the atomic, molecular, or macromolecular levels to create and use structures, devices, and systems that have novel functional properties because of their size. Positioned as it is where engineering, biotechnology, medicine, physical sciences, and information technology meet, nanotechnology is spurring new directions in research, education, and technology transfer.

This symposium focuses on nanotech's interdisciplinary nature, highlighting cutting-edge R&D in nanomedicine, nanoelectronics, and nanomaterials. We will explore commercial opportunities in nanoscience, nanotechnology, and related science and engineering fields and offer networking opportunities to researchers from industry, government, academia, and other professions. We will discuss current factors fueling nanotechnology growth, start-up opportunities, and bottlenecks to viable commercial nanotechnology products. We will also examine future societal, environmental, ethical, and privacy issues, the impact of nanotechnology on the future soldier and warfare, and the vital role of U.S. regulatory agencies, such as the Food and Drug Administration and the Patent Office. We will distribute the special

inaugural issue of the peer-reviewed journal *Nanotechnology Law & Business* ([pubs.nanolabweb.com/nlb/](http://pubs.nanolabweb.com/nlb/)) to all registered attendees (a \$49.95 value), and the first 20 full-paid registrants will receive a copy of *Futuring: The Exploration of the Future* ([www.wfs.org/futuring.htm](http://www.wfs.org/futuring.htm)) by former World Future Society president Edward Cornish (a \$29.95 value).

**Who should attend:** Citizens, futurists, lawyers, physicians, engineers, regulators, health-care professionals, biomedical researchers, legislators, policy makers, intellectual property practitioners, etc.

**What you'll learn:** Attendees will get a glimpse of the coming revolution in nanotechnology and nanoscience. As we enter the "golden era" of nanotechnology in the next decade, with the field maturing and the promised breakthroughs accruing, the attendees will experience how nanotechnology in the future will impact every aspect of human existence in novel, revolutionary ways.

**How this knowledge can be applied:** This information will prepare you for the profound future impact of nanotechnology.

Faculty:

**Raj Bawa**, adjunct assistant professor, Rensselaer Polytechnic Institute, Troy, New York; president, Bawa Biotechnology Consulting LLC, Arlington, Virginia

**Stephan Herrera**, correspondent, *The Economist*, *Nature Biotechnology*, and *MIT Technology Review*; former senior editor, *Acumen Journal of Life Sciences*; author, *Closer to God: Peering into the Weird Little World of Nanotechnology*, New York, New York

**Chid Iyer**, partner, Sughrue Mion PLLC, Washington, D.C. His representative cases include multi-patent litigation in the field of semiconductor memories and AI software.

**Stephen B. Maebius**, member, biotechnology and pharmaceutical practice group; leader, nanotechnology industry team; partner, Foley & Lardner LLP, Washington, D.C.

**John Miller**, vice president, intellectual property, Arrowhead Research Corporation; managing editor, *Nanotechnology Law & Business*, a peer-reviewed, quarterly journal, Pasadena, California

**Mark Modzelewski**, founder and former executive chairman, The NanoBusiness Alliance; member, Nanotechnology Technical Advisory Group to President Bush's Council of Advisors on Science and Technology (PCAST); managing director, Lux Research Inc., New York, New York

**Marvin Motsenbocker**, patent attorney, Heller Ehrman, Washington, D.C. His interests lie with emerging companies, where he often becomes involved in business strategy and in working closely with inventors to help them realize their potential.

**Sean A. Passino**, member, intellectual property department, Foley & Lardner LLP, Washington, D.C. He specializes in areas of complex high technology patent-litigation counseling for clients looking to protect or to market their technologies.

**Sander Rabin**, Convergent Technology Patent Law Group, Troy, New York

**Scott H. Segal**, partner, Bracewell & Patterson LLP, Washington, D.C. For the past 15 years, he has focused on environmental and natural resources policy.

**Mike Treder**, executive director, Center for Responsible Nanotechnology, New York, New York