

Speaker Profile



Name: Mihail C. Roco

Title: Senior Advisor

Institute: National Science Foundation,

Dr. Roco is Senior Advisor for Nanotechnology at the National Science Foundation, and chairs the U.S. National Science and Technology Council's Subcommittee on Nanoscale Science, Engineering and Technology (NSET). He also coordinates the programs on academic liaison with industry (GOALI). Prior to joining National Science Foundation, he was Professor of Mechanical Engineering at the University of Kentucky (1981-1995), and held visiting professorships at the California Institute of Technology (1988-89), Johns Hopkins University (1993-1995), Tohoku University (1989), and Delft University of Technology (1997-98). At NSF, he also coordinated programs or initiatives on Particulate and multiphase processes, Engineering international activities, Environmental geochemistry and biogeochemistry, Biosystems at nanoscale, Modeling and simulation at nanoscale.

Dr. Roco is credited with thirteen inventions, has authored/co-authored over two hundred scientific and engineering articles, and twelve books and manuals including "Particulate Two-phase Flow" (Butterworth, 1993). He is a key architect of the National Nanotechnology Initiative, and coordinated the preparation of the National Science and Technology Council reports on "Nanotechnology Research Directions" (NSTC, 1999), "Nanostructure Science and Technology" (Kluwer Acad., 1999), "National Nanotechnology Initiative" (NSTC, 2000), and "Societal Implications of Nanoscience and Nanotechnology" (Kluwer Acad., 2001). Under Dr. Roco's coordination, federal expenditure in nanotechnology research has grown from \$116 million in FY1997, to about \$770 million in fiscal year 2003. He formally proposed NNI in a presentation at White House/OSTP, Committee on Technology, on March 11, 1999.

Dr. Roco is a Correspondent Member of the Swiss Academy of Engineering Sciences, a Fellow of the American Society of Mechanical Engineers, a Fellow of the Institute of Physics, and a Fellow of the American Institute of Chemical Engineers. He is the Editor of several journals, including the Journal of Nanoparticle Research and Measurement Science and Technology. He has been member in the Executive Governance Board for SNL-LANL, Review Board for National Research Council Institute (Canada) and other boards, and was Chair of the AIChE Particle Technology Forum, co-founded the International Center for Multiphase Flow and International Multiphase Flow Council. He was honored as recipient of the Carl Duisberg Award in Germany, "Burgers Professorship Award" in Netherlands and the "University Research Professorship" award in U.S., the "Engineer of the Year" (1999) by the U.S. National Society of Professional Engineers and NSF, Distinguished Service Award of the NSF (2001), "Best of Small Tech Awards" ("Leader of the American nanotech revolution", 2002), and Nanotechnology's Power Brokers, Forbes ("Leading Architect of NNI").

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