

ChE Special Guest Seminar

Dr. Mrityunjay Singh



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President, The American Ceramic Society

**Chief Scientist
Ohio Aerospace Institute
Cleveland, Ohio**

Host: Thomas Webster
Professor and Department Chair,
Chemical Engineering
Art Zafropoulo Chair in Engineering

**Materials and Integration Challenges
in Alternative and Renewable Energy
Systems**

**Friday March 25, 2016
Shillman 305
11:45am-1:00pm**

*Sponsored by the Department of
Chemical Engineering*

Advanced materials and multiscale integration technologies will dramatically impact the energy and environment landscape due to their wide scale applications in all aspects of alternative and renewable energy production, storage, distribution, conservation, and efficiency. Examples include fuel cells, thermoelectrics, gas turbine propulsion systems, nuclear power generation, photovoltaics and reliable energy storage technologies. In this presentation, various challenges and opportunities in design, fabrication, and testing of integrated systems will be discussed. Specific examples will be given for the integration of fuel cell systems, thermal management, and thermal energy storage devices.

Dr. M. Singh is also Governor of Acta Materialia, Inc., and Academician of the World Academy of Ceramics, Italy, where he currently serves as Vice President of

the International Advisory Board of the academy. The recipient of more than 65 national and international awards and prizes worldwide which includes many honorary and distinguished life memberships/fellowships, honorary professorships and doctorates, Dr. Singh is editor/co-editor of 50 books and proceedings; 7 special journal volumes; author/co-author of 14 book chapters; and more than 275 papers in various journals and proceedings. He has delivered numerous keynote and plenary presentations in international conferences, forums, and workshops, and serves on the advisory boards and committees of more than fifteen prestigious international journals and technical publications.