

## **MSE SEMINAR**

Materials Science and Engineering Michigan Technological University Thursday, October 3, 2013 3:00 pm - 4:00 pm Room 610, M&M Building

## **New Energy Options for Better Sustainability**

**John & Virginia Towers Distinguished Lecture Series** 

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## **Abstract**

We are in a new era where we need to go beyond conventional power generating systems, due to critical energetic, environmental and sustainability issues. This presentation will make a prime focus on newly-developed multi-purpose power generating systems and energy options as well as their performance assessment through energy and exergy efficiencies as well as other newly developed parameters. Also, novel system design, analysis, assessment and improvement options will be discussed. Various parametric studies and projects will be presented to highlight the importance of new energy systems and mindset chance when it comes to more efficient and effective and environmentally-benign operation. Furthermore, there will be a general discussion about carbon-free society and its complications.



Bio: Ibrahim Dincer is a tenured full professor of Mechanical Engineering in the Faculty of Engineering and Applied Science at UOIT. He is Vice President for Strategy in International Association for Hydrogen Energy (IAHE) and Vice-President for World Society of Sustainable Energy Technologies (WSSET). Renowned for his pioneering works in the area of sustainable energy technologies he has authored and co-authored numerous books and book chapters, more than 900 refereed journal and conference papers, and many technical reports. He has chaired many national and international conferences, symposia, workshops and technical meetings. He has delivered more than 250 keynote and invited lectures. He is an active member of various international scientific organizations and societies, and serves as editor-in-chief (for International Journal of Energy Research by Wiley; International Journal of Exergy, International Journal of Global Warming and International Journal of Research, Innovation and Commercialism by Inderscience; and The Open Environmental Engineering Journal by Bentham), associate editor,

regional editor, and editorial board member on various prestigious international journals. He is a recipient of several research, teaching and service awards, including the Premier's research excellence award in Ontario, Canada in 2004. He has made innovative contributions to the understanding and development of sustainable energy technologies and their implementation. He has actively been working in the areas of hydrogen and fuel cell technologies, and his group has developed various novel technologies/methods/etc.