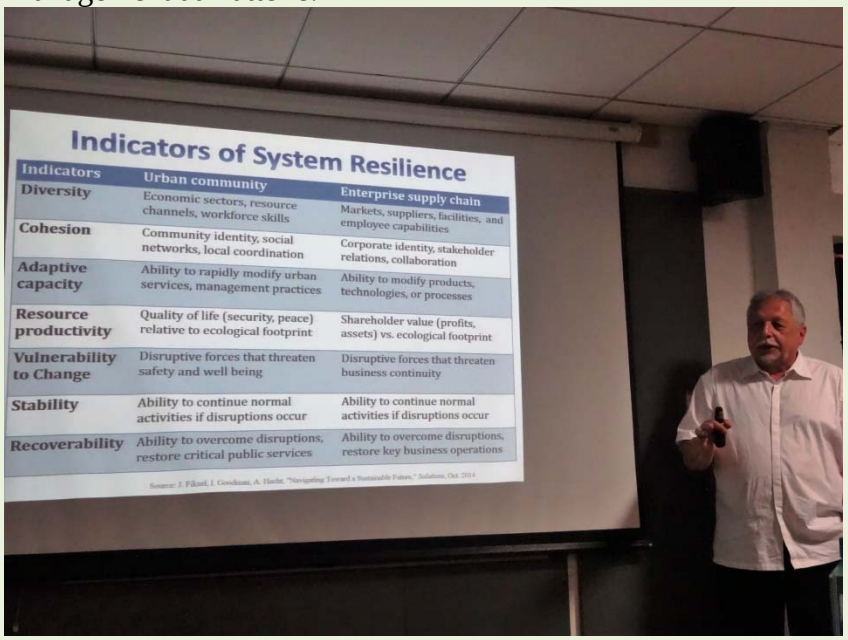
Details of the Speaker

Dr. Joseph Fiksel, Faculty at Ohio State & Executive Director of the Sustainable and Resilient Economy program

Biography :-- **Dr. Joseph Fiksel** is Executive Director of the Sustainable and Resilient Economy program under Discovery Themes, and a research faculty member in the Department of Integrated Systems Engineering at Ohio State. From 2010 to 2014 he served as Special Assistant for Sustainability at the U.S. EPA, working with both headquarters and regional offices. He is an internationally recognized authority on sustainability and resilience, with over 25 years of research and consulting experience for government agencies, multi-national companies, and industry consortia. Dr. Fiksel received a B.Sc. from M.I.T. and a Ph.D. from Stanford University in Operations Research. He has held a number of positions in the private sector, and prior to joining Ohio State he was Vice President for Life Cycle Management at Battelle.



Details of the Talk

Date: 16/11/2015

Title: Toward a Sustainable and Resilient Economy

Abstract: Pursuing sustainability, whether at the national or local level, requires systems thinking to understand the complex linkages among food, energy, water, materials, ecosystem services, economic prosperity, and social issues such as environmental justice. It is also important to consider resilience—the capacity to adapt to turbulent change. The speaker will describe a systems approach based on the Triple Value framework, which characterizes the dynamic coupling between human society and natural ecosystems. The U.S. Environmental Protection Agency (EPA) has adopted this approach to guide collaborative projects in New England and other U.S. regions that are experiencing water quality problems due to excess nitrogen and phosphorus releases from both urban wastewater and agricultural runoff. These problems are compounded by economic development, population growth, and increasing storm intensity due to climate change. To help develop sustainable and resilient solutions, EPA has developed an interactive modeling tool for analyzing the costs and benefits of alternative policy interventions on a watershed scale.