

The Division of Economics and the Economic Growth Centre under the One Asia Foundation Lecture Series cordially invite you to a seminar by Associate Professor Shunsuke Managi

Speaker : **Associate Professor Shunsuke Managi**
*Graduate School of Environmental Studies
Tohoku University, Japan*

Topic : **"Natural Disaster in Japan: Economy, Energy and Environment"**

Chairperson : **Assistant Professor Chang Youngho**
*Division of Economics
School of Humanities & Social Sciences
Nanyang Technological University*

Date : **Thursday, 12 September 2013**

Time : **11:30 am – 12:30 pm**

Venue : **Conference Room (Level 5, HSS-05-57)**
Nanyang Technological University
School of Humanities and Social Sciences
14 Nanyang Drive
Singapore 637332

About the Speaker:

Shunsuke Managi is the Associate Professor at the Tohoku University, Japan. He is an editor of *Environmental Economic and Policy Studies* and on the associate editorial of *Resource and Energy Economics*, a lead author for the Intergovernmental Panel on Climate Change, and is the author of 20 books and 140 academic journal papers. He has published in peer reviewed journals such as *Journal of Environmental Economics and Management*, *Journal of Economic Dynamics and Control*, and *Energy Journal*. He has also written general-interest columns for newspaper such as *The Guardian* and his study is also featured in life sciences journal such as *Science*. IDEAS/RePEc ranks him among the top 40 young economists in the world and top in Japan as of August 2012. He is the author of "Technology, Natural Resources and Economic Growth: Improving the Environment for a Greener Future" Edward Elgar. He is currently editing *Handbook of Environmental Economics in Asia*.

Abstract:

In this article we explore the recovery policies after the Great East Japan Earthquake and Tsunami comprehensively. By doing so, we assess how the disaster-affected cities' possession of their accommodation promotes the effectiveness of the policies. The Japanese National Police Agency reported that the incident caused 15,883 of deaths, 6,143 of casualties, and 2,681 of missing. The report also confirmed physical damage of 129,225 totally collapsed, and 269,454 half-collapsed buildings. Direct economic damage is about 5-7% of GDP. Besides these damages, the incident in Tohoku has significantly different aspect than other disasters, which is the major explosion of Fukushima nuclear power plant associated with the earthquake and tsunami. The leakage and contamination of radioactive have been affecting 12 cities and more than 8,8000 residents in Fukushima prefecture. The Tokyo Electric Power Company announced that they have a clear schedule to put the crisis under control and to decommission the nuclear reactor, and that it takes 40 years to complete it. After the incident, the central government of Japan established Reconstruction Agency to replace Reconstruction Headquarters as a response to the incident created on June 24, 2011 and to support the local governments' recovery plans. The government prepared 25 million yen for the 5 years of the incident. The budget is allocated to four major projects of cleaning up the debris, reconstructing the damaged infrastructure, managing the nuclear related issues, and financial support for local businesses and employment creation in the disaster area. In the current two years, interestingly, there have been differences among the disaster areas in the magnitude of successfulness in recovery plans although some of them have experienced the same levels of

devastation. The cities located in the southern area have recovered relatively faster than the one in the northern area. One of the goals of the recovery plans is to achieve fast and sustainable recovery of the disaster area. We focus on a source of difference in the magnitudes of recovery considering nuclear plant nearby areas (particularly energy and environmental challenges in addition to economic impacts), and propose the necessity for the local cities to have their potential accommodation as a part of preparing for the smooth recovery.

Reservation:

Admission is free. Please reply to Christina, e-mail: achristina@ntu.edu.sg or Tel: 6790-5689 to confirm your attendance.