



*SEEK-Workshop*

***The Macroeconomic Substitution between Clean and Dirty Production***

ZEW Mannheim, Seminar room 2

**September 21<sup>st</sup>, 2012**

**Thursday, 2012-09-20**

19:00	Get Together Restaurant Rheinterrassen
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**Friday, 2012-09-21**

08:45 – 09:00	Registration
09:00 – 09:10	Welcome
09:10 – 10:40	Session I CHAIR: Marianne SAAM  Lucas BRETSCHGER (ETH Zurich, Switzerland) <b><i>Energy Prices, Growth, and the Channels in Between: Theory and Evidence</i></b>  Michael SCHYMURA* and Andreas LÖSCHEL (ZEW, Germany) <b><i>Peeling the Onion: Analyzing Aggregate, National and Sectoral Energy Intensity in the European Union</i></b>
10:40 – 11:00	Coffee Break

11:00 – 12:30	<p>Session II CHAIR: Lucas BRETSCGER</p> <p>Pietro PERETTO (Duke University, USA)  <b><i>Technology, Population and Exhaustible Resources: A Theory of Convergence to Sustainable Growth</i></b></p> <p>John HASSLER (IIES and CEPR, Sweden), Per KRUSELL (IIES, CEPR, NBER and CAERP, Sweden) and Conny OLOVSSON* (IIES, Sweden)  <b><i>Energy-Saving Technical Change</i></b></p>
12:30 – 13:30	Lunch break
13:30 – 15:00	<p>Session III CHAIR: Conny OLOVSSON</p> <p>Francisco ANDRE GARCIA (Complutense University of Madrid, Spain) and Sjak SMULDERS* (Tilburg University, Netherlands)  <b><i>Growth, Energy Supply and Directed Technological Change</i></b></p> <p>Chris PAPAGEORGIOU (International Monetary Fund, USA), Marianne SAAM* and Patrick SCHULTE (ZEW, Germany)  <b><i>Estimating the Elasticity of Substitution between Clean and Dirty Energy Inputs - A Macroeconomic Perspective</i></b></p>
15:00 – 15:30	Coffee Break
15:30 – 17:00	<p>Panel Discussion CHAIR: Andreas LOESCHEL</p> <p>Philippe AGHION (Harvard University, USA, via video conference),  Pietro PERETTO (Duke University, USA) and  Sjak SMULDERS (Tilburg University, Netherlands)</p>
17:00 – 17:30	Snack and Closing