One-day Melitz-in-GTAP Course 16 June 2020

Complementing the 23rd Annual Conference on Global Economic Analysis, 17-19 June, Tokyo.

Instructors: Peter Dixon, Maureen Rimmer, Robert Waschik

Date: 16 June 2020, 9am - 3.30pm

Location: Miyabi Room
AKASAKA EXCEL HOTEL TOKYU
2-14-3, Nagata-cho, Chiyoda-ku, Tokyo 100-0014
Google maps

This one-day Melitz-in-GTAP training course is for people who want to include Melitz features in GTAP computations. It demonstrates how to integrate elements of modern trade theory, particularly the Melitz model, along with the theories of Armington and Krugman, into the GTAP model. Basic GEMPACK skills are assumed. **Participants are to bring their own laptops.** Lunch, morning and afternoon tea will be provided.

Price US$	
550	Standard
250	GTAP conference registrant
125	GTAP conference registrant, early career researcher*, developing country

* An early career researcher must be a currently enrolled graduate student, or have graduated within the last 5 years.

Preliminary Program.

The course will be delivered as a sequence of lectures and hands-on exercises through which participants work under the guidance of the tutors. The exercises aim to ensure a practical understanding of how to implement elements of modern trade theory in GTAP.

Topics Include**:

- understanding of and motivation for Armington, Krugman and Melitz theories
- reviewing the Melitz model with monopolistically competitive firms and firm-level heterogeneous productivity
- understanding Armington, Krugman and Melitz models as special cases of the encompassing AKME model
- integrating the 10-equation encompassing AKME model into GTAP
- modelling any single sector Melitz sector as an Armington sector with endogenous productivity and preferences
- calibration and parameter estimation to represent separate sectors as either Armington, Krugman or Melitz sectors in GTAP
- hands-on exercise: building the 10-equation AKME model into GTAP and calibrate separate sectors as either Armington, Krugman or Melitz sectors
- hands-on exercise: run a counterfactual simulation to highlight how results change when a sector is modelled as a Melitz sector

**Topics are subject to change or addition.

Laptop requirements. Participants are required to bring a Windows laptop. Windows XP or later, we recommend i5 or i7 processor, at least 2GB memory, Excel or other spreadsheet program and a power adapter for the local power socket.

Course Software and exercises. Participants will receive a USB memory stick which includes:

- Executable-image GEMPACK with a 12-month expiring licence
- the course slides and exercise materials.

Registration and Payment.

To register your interest please send an email containing the following details to louise.pinchen@vu.edu.au.

> Dear Louise,
>
> I would like to register for the following course.
>
> Course: One-day Melitz-in-GTAP Course 16 June 2020, Tokyo.
> Participant's name: …
> Participant's Organisation: …
>
> Please send me payment instructions and the link for online credit card payment.