MISSION STATEMENT:

The Center for Global Trade Analysis is the publicly funded, university-based home for GTAP (Global Trade Analysis Project), a global network of researchers and policy makers conducting quantitative analysis of international policy issues. Our purpose is to improve the quality of global economy-wide analysis through education and by developing analytical data bases, economic models, and innovative methodologies. Our unique institutional structure enables us to foster collaboration among academia, public sector, and private sectors worldwide.
1. CENTER NEWS

*GTAP Seminar Series*
In May 2008, Thomas Hertel will present in the GTAP Seminar Series. The seminar is titled: “Biofuels for all? Understanding the Global Impacts of Multinational Mandates”.

2. CONSORTIUM NEWS

The GTAP Advisory Board is composed of representatives from consortium member agencies that provide financial support and guidance to the project.

*2008 GTAP Advisory Board Meeting*
The next GTAP Advisory Board meeting will be held from June 9-10, 2008 at the House of the Estates (Säätytalo) in Helsinki, Finland.

More information about the GTAP Advisory Board meeting is available at: [http://www.gtap.org/events/Board_Meetings/default.asp](http://www.gtap.org/events/Board_Meetings/default.asp).

3. RESEARCH HIGHLIGHTS

*Biofuels for all? Understanding the Global Impacts of Multinational Mandates*
by Hertel, Thomas, Wally Tyner and Dileep Birur
GTAP Working Paper No. 51

The recent rise in world oil prices, coupled with heightened interest in the abatement of greenhouse gas emissions, has led to a sharp increase in domestic biofuels production around the world. Previous authors have devoted considerable attention to the impacts of these policies on a country-by-country basis. However, there are also strong interactions among these programs, as they compete in world markets for feedstocks and ultimately for a limited supply of global land. In this paper, we evaluate the interplay between two of the largest biofuels programs, namely the renewable fuel mandates in the US and the EU. We examine how the presence of each of these programs influences the other, and also how their combined impact influences global markets and land use around the world.

We begin with an analysis of the origins of the recent bio-fuel boom, using the historical period from 2001-2006 for purposes of model validation. This was a period of rapidly rising oil prices, increased subsidies in the EU, and, in the US, there was a ban on the major competitor to ethanol for gasoline additives. Our analysis of this historical period permits us to evaluate the relative contribution of each of these factors to the global biofuel boom. We also use this historical simulation to establish a 2006 benchmark biofuel economy from which we conduct our analysis of future mandates.

Our prospective analysis of the impacts of the biofuels boom on commodity markets focuses on the 2006-2015 time period, during which existing investments and new mandates in the US and EU are expected to substantially increase the share of agricultural products (e.g., corn in the US, oilseeds in the EU, and sugar in Brazil) utilized by the biofuels sector. In the US, this share could more than double from 2006 levels, while the share of oilseeds going to biodiesel in the EU could triple.
4. SHORT COURSES

*Sixteenth Annual Short Course*
The Center for Global Trade Analysis will hold the Sixteenth Annual Short Course in Global Trade Analysis on the campus of Purdue University from August 2-8, 2008.

The course will consist of two main parts:
**Part I** is a series of weekly, online modules aimed at increasing the familiarity of the course participants with the theory behind GTAP, the standard GTAP notation, and the course software.

**Part II** is an intensive, week-long course consisting of a mix of daily lectures, lab assignments, and informal discussions designed to introduce participants to the basic features of the model and GTAP Data Base.

More information on the Sixteenth Annual Short Course is available at: [http://www.gtap.org/events/Short_Courses/2008/default.asp](http://www.gtap.org/events/Short_Courses/2008/default.asp).

*2008 Dynamic Short Course*
The Center for Global Trade Analysis will hold the 2008 Short Course in Dynamic Global Trade Analysis on the campus of Purdue University from October 10-15, 2008.

The course will consist of two main parts:
**Part I** is a series of several modules to be delivered online and via CD-ROM. By working through this material in advance of the on-site course, participants will become familiar with the theory behind GTAP, the standard GTAP notation as well as the course software.

**Part II** is an intensive, week-long course consisting of a mix of daily lectures, lab assignments, and informal discussions designed to introduce participants to the basic features of the model and GTAP Data Base. These activities culminate in a major application undertaken by small groups and presented on the final day of the course. Each group is assigned an instructor who is intimately familiar with their project to act as a resource person. Participants leave with the capability of designing, conducting, and analyzing their own simulations.


5. CONFERENCES

*Eleventh Annual Conference*
The Eleventh Annual Conference on Global Economic Analysis will be held at the Marina Congress Center in Helsinki, Finland from June 12-14, 2008. This conference is being jointly organized by the Government Institute for Economic Research (VATT), United Nations University / Wider Institute, and the Center for Global Trade Analysis.

The themes of the Eleventh Annual Conference are: globalization and economies in transition; development, poverty and vulnerability; energy and environment; and wealth, aging and income distribution.
Further information on this conference is available at: http://www.gtap.org/events/Conferences/2008/default.asp.

**Post-Conference Event - Contributing I-O Tables to the GTAP Data Base**
The goal of this intensive 2-day course is to assist individuals wishing to contribute I-O tables to the GTAP Data Base. The course consists of hands-on exercises (using Gempack and batch files) to convert a fairly standard I-O table into the GTAP format for I-O table contributions. Participants will be required to provide their own laptops for this course.

### 6. DATA BASE DEVELOPMENTS

**TASTE for GTAP**
In a previous newsletter, there was a mention about a trade-tariff database-cum-tool named TrdMat, which is being developed by David Laborde and Mark Horridge. This has now been renamed as Tariff Analytical and Simulation Tool for Economists (TASTE). Prepared from CEPII’s MacMAP Data Base, this tool allows the user to prepare files of tariff shocks from tariff data at a HS6 level and to split up one or more of the 57 GTAP sectors, using HS6-level trade matrices. TASTE comes with a huge database of bilateral trade flows and of applied and bound tariff rates distinguishing around 200 countries and 5000 HS6 goods. There will be an organized session focusing on TASTE and its applications in the Eleventh Annual Conference on Global Economic Analysis to be held at Helsinki in June 2008. This session would include presentations by the developers of TASTE as well as an application of this tool to demonstrate its usefulness in linking a Partial Equilibrium Model with standard GTAP model. This session will be particularly useful for the researchers who are interested in highly disaggregated trade policy analysis.

### 7. NEW RESOURCES ON THE GTAP WEBSITE

The list below details new resources submitted to the GTAP Resource Center between January 3, 2008 and April 4, 2008. A comprehensive list of all recent additions can be found at: http://www.gtap.org/resources/latest.asp.

**CGE Applications**

**A SALTER Database Aggregation Facility**
by James, Marianne and Robert McDougall

**A SALTER database summary**
by Watts, Greg

**Aggregated New Zealand Import Data by Source - Procedures Used and Data Generated**
by Maclaine, G. and Simon Wear

**An Independent Assessment of the SALTER General Equilibrium Model of the World Economy**
by Hertel, Thomas

**Creating Synthetic Single Region Input-Output Data for SALTER: Hong Kong and the Rest of the World**
Early Stage Processing of International Trade and Input-Output Data for SALTER
by Hambley, James

Estimation of Trade Margins - An Application of the UN Bilateral Trade Data
by Gehlhar, Mark, James Binkley and Thomas Hertel

FIT: An Input-Output Data Update Facility for SALTER
by Marianne and Robert McDougall

Implementation of the WALRAS Model of the Australian Economy
by James, Marianne and Robert McDougall

Incorporating International Capital Mobility into SALTER
by McDougall, Robert and Craig Sugden

Industry assistance data for SALTER
by Gotch, Michelle

Introducing Imperfect Competition into the SALTER Model
by Hertel, Thomas

Later Stage Processing of International Trade Data for SALTER
by Hanslow, Kevin

Linking CGE Country Models: An Example Using the OECD's WALRAS Model
by McDougall, Robert

Linking Regional Models in WALRAS
by McDougall, Robert

Matching Input-output Data to International Trade Data and Assembling a Salter Database
by Brown, Stephen, Alexandra Strzelecki and Greg Watts

NERAM: A Nominal and Effective Rates of Assistance Model for the SALTER World Trade Models
by Brown, Stephen

Procedures for Later Stage Processing of Single-region Input-Output Data for SALTER
by Calder, Wayne, Robert McDougall and Alexandra Strzelecki

SALTER: A General Equilibrium Model of the World Economy
by Zeitsch, John, Robert McDougall, Patrick Jomini, A. Welsh, J. Hambley, Stephen Brown and J. Kelly

SINTIA A Guide to Collecting Tariff Rate Data for SALTER
by Tormey, James

Suggested Revisions to the SALTER Model
by Wigle, Randall and Carlo Perroni

The Elasticity of Substitution Between Imports from Different Sources - Estimates for
New Zealand
by Wear, Simon

The SALTER Model of the World Economy: Model Structure, Database and Parameters
by Jomini, Patrick, Robert McDougall, Greg Watts and Philippa Dee

The SALTER Model: Construction of the European Database
by Ryan, Cillian

Two Small Extensions to SALTER
by McDougall, Robert

GTAP Applications

by HE, Shu-Quan

Reducing social contributions for unskilled labor as a way of fighting unemployment: an empirical evaluation for the case of Spain
by Bajo-Rubio, Oscar and Antonio Gomez

Simulating the effects of the European Single Market: a CGE analysis for Spain
by Bajo-Rubio, Oscar and Antonio Gomez

South Africa's Way Ahead: Trade Policy Options
by Sandrey, Ron, Hans Grinsted Jensen, Nick Vink and Taku Fundira

The performance of Tunisia’s bank: evaluation by a DEA model
by Hadj Salem, Haykel

THE REDUCTION OF CUSTOMS DUTIES ON NON-AGRICULTURAL GOODS AS PART OF THE WTO DOHA ROUND AND THE MOVE'S IMPLICATIONS FOR POLAND'S FOREIGN TRADE
by Hagemejer, Jan and Ewa Kaliszuk

WOMEN AND FOOD SECURITY: A STUDY OF VEGETABLE FARMING IN CALABAR METROPOLIS
by Bassey, Charles

GTAP Working Papers

An Integrated Global Land Use Data Base for CGE Analysis of Climate Policy Options
by Lee, Huey-Lin, Thomas Hertel, Steven Rose and Misak Avetisyan

Biomass Energy and Competition for Land
by Reilly, John and Sergey Paltsev

Global Agricultural Land Use Data for Climate Change Analysis
by Monfreda, Chad, Navin Ramankutty and Thomas Hertel

Global Forestry Data for the Economic Modeling of Land Use
by Sohngen, Brent, Colleen Tennity, Marc Hnytka and Karl Meeusen

KLUM@GTAP: Spatially-Explicit, Biophysical Land Use in a Computable General Equilibrium Model
by Ronneberger, Kerstin, Maria Berrittella, Francesco Bosello and Richard Tol

Land Use in Computable General Equilibrium Models: An Overview
by Hertel, Thomas, Steven Rose and Richard Tol

Land Use Modeling in Recursively-Dynamic GTAP Framework
by Golub, Alla, Thomas Hertel and Brent Sohngen

Modeling Land-use Related Greenhouse Gas Sources and Sinks and their Mitigation Potential
by Hertel, Thomas, Huey-Lin Lee, Steven Rose and Brent Sohngen

Modeling the Competition for Land: Methods and Application to Climate Policy
by Sands, Ronald and Man-Keun Kim

Non-CO2 Greenhouse Gas Emissions Data for Climate Change Economic Analysis
by Rose, Steven and Huey-Lin Lee

The Impact of Environmental and Climate Constraints on Global Food Supply
by Eickhout, Bas, Hans van Meijl, Andrzej Tabeau and Elke Stehfest

The Role of Forestry in Carbon Sequestration in General Equilibrium Models
by Sohngen, Brent, Alla Golub and Thomas Hertel

8. CONTACT INFORMATION

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