

# **Center for Global Trade Analysis**

Newsletter, December 2017

## **Global Trade Analysis Project Overview** (1992-2017)



#### Holiday Greetings from GTAP-Central!

This past year we celebrated two milestones for GTAP: the 25<sup>th</sup> year of its founding and the 20<sup>th</sup> Annual Conference. Both were fêted in June at home headquarters at Purdue University. We had a most deserving special tribute for Tom, honoring him with a Festschrift, but it was also a tribute to the entire GTAP Network—all of you—who have been so important to the success of GTAP over the last quarter century.

The Center had a full load of work this past year with some notable accomplishments:

- Pre-release 1 of GTAP 10 was released to the Board in March with a new reference year (2014). It incorporated new
  macro data, revised tariffs from the International Trade Center and COMTRADE based bilateral merchandise trade.
  Mark Gehlhar, our generous provider for the latter, worked on improving the treatment of re-exports among other
  improvements.
- Pre-release 2 was posted in October with the notable inclusion of the IEA-based energy data and the OECD-based domestic support, with additional revisions to the bilateral trade data. This release included all reference years: 2004, 2007, 2011 and 2014. In addition, the individual reference years are now using time-based country tables, when available, using the country table that is closest to the reference year. For example, China's 2002, 2007, 2010 and 2012 tables are matched respectively for the 2004, 2007, 2011 and 2014 reference years. We hope to augment the, as-yet limited, number of time-based country tables. In short, we are building a high quality time-series of annual snapshots for the global economy. We anticipate this benefiting those doing econometric work using the GTAP data, and also those seeking to undertake model validation exercises.
- A new land use and land cover database, based on new data sources and a new methodology, largely due to the efforts of Uris Baldos.
- A new version of the GTAP Data Base that incorporates fossil-fuel consumption subsidies developed from the IMF database on energy subsidies.
- A thorough revision and update of the GTAP Model, the so-called GTAP 'facelift'. This is the first revision to the standard model since the early 2000's and it was also an opportunity to consolidate the full model documentation within a single file. The biggest specification change has been the addition of a 'make' module that allows separate identification of production activities and end-user commodities. This is a particularly necessary feature for the energy and environmental models, but has potentially much broader applications. Most of the other changes involved streamlining the code and specification to reduce entry costs. Further information can be found in the June 2017 issue of the *Journal of Global Economic Analysis* (JGEA) of which more is said below.

The Center is busy preparing pre-release 3 of the database for early 2018 that will incorporate, among other things, domestic margins (a new innovation led by Erwin Corong), as well as breaking the 57 sector barrier with the addition of more detail in services. The public release of GTAP 10 is slated for late Spring 2018.

The Center is actively pursuing a number of research areas. Tom, together with some Center colleagues and Purdue researchers in other fields, was awarded a 'Big Idea Challenge' grant to develop open source tools for sustainable agriculture and use of the world's land and water resources. At the core is the SIMPLE model—both country-based and gridded versions—that is coupled to bio-physical models. More information on the GLASS (Global to Local Analysis of Systems Sustainability) initiative is available at https://mygeohub.org/groups/glass. The Center is actively engaged in ameliorating transparency in recursive dynamic baselines—including organizing a workshop with key global modelers being held at the OECD in Paris in January 2018, and we continue to pursue work in the areas of climate change, energy systems, sustainability and trade.

We were fortunate to be working with a full complement of staff this past year. I am very proud of all of the Center's staff, but I would like to take the opportunity to single out <u>Jeremy Douglas</u> who works stealthily to maintain and improve our complex web operations. In the last 18 months he has improved the web-based short course design, assisted in setting up the Journal, developed a citation 'widget' for our online publications, upgraded the abstract submission process, all while migrating our services from a local server to a university server that has required significant code changes. His work is invaluable to all of us. We also need to recognize GTAP's growing family (see photo below). With the addition of four babies in the past few months, we are thinking of expanding our operations to include a day care center! Finally, we welcome Jayson Lusk as the new department head for Agricultural Economics at Purdue University. Jayson has had an illustrious career that included a past stint at Purdue and was until recently President of the Agricultural and Applied Economics Association. We extend our sincerest

appreciation to Ken Foster, who was very supportive of the Center during his tenure and we look forward to working closely with Jayson.

In addition to the above, there is one change of responsibilities pending—<u>Mary Burfishe</u>r. Mary was instrumental in expanding our online course offerings through GTAP 101 and GTAP PTA, but she has decided to pass the baton. We are very privileged that <u>Amanda Countryman</u> (GTAP 101) and <u>Terrie Walmsley</u> (GTAP PTA) have accepted to take the challenge to replace Mary in these roles. We all need to express our heartfelt thanks to Mary for spearheading development of these online initiatives. Together with her textbook on CGE analysis, she significantly expanded our teaching portfolio and she has been able to reach many eager learners who would not be able to participate in the standard courses. Mary will continue to serve as Senior Education Advisor to the Center.

We enjoyed hosting a number of longer-term visitors. <u>Ken Itakura</u>, professor at Nagoya City University, was with us through the first half of the year. In addition, we hosted two doctoral candidates: <u>Jinggang Guo</u> from the Swedish University of Agricultural Sciences who is working on forestry related issues and <u>Talita Pinto</u> from the Federal University of Viçosa, a student of <u>Erly</u> <u>Teixeira</u> who is working on livestock issues. Short-term visitors included <u>Dave Donaldson</u>, <u>Bjørn Lomborg</u> and <u>Everett Peterson</u>. Everett will be working with the Center in 2018 during his sabbatical.

The *Journal of Global Economic Analysis* continues to thrive and is now included in the Clarivate Analytics' Emerging Sources Citation Index (ESCI) (formerly operated by Thompson Reuters). With additional issues, the Journal will eventually be assigned an impact factor. The pipeline of articles is healthy, but the editors would welcome further contributions. Beyond celebrating the anniversaries, the 20th Annual Conference had other notable events. Hans van Meijl, of Wageningen Economic Research, was awarded the Alan A. Powell Award for being instrumental in the development of GTAP since its early days, along with his strong, continued support. Badri Narayanan, Tamás Révész, Farzad Taheripour, Niven Winchester and Glyn Wittwer joined the ranks of Research Fellows for the period 2017-2020. And a new team award was bestowed on the European Commission team that was instrumental in the update of the EU-28 tables. It was a significant effort coordinated between DG Trade (Lucian Cernat and Zornitsa Kutlina-Dimitrova) and the Joint Research Center (José Manuel Rueda-Cantuche, Tamás Révész, Antonio Amores, Agustín Velázquez, Marian Mraz, Emanuele Ferrari, Alfredo Mainar, Letizia Montinari and Bert Saveyn). Finally, we were pleased to bestow on behalf of the Centre of Policy Studies (CoPS) the Ken Pearson scholarship to Sudarshan Chalise from Griffith University in Australia and from the GAMS Development Corporation the Alex Meeraus/Thomas Rutherford scholarship to Qiaomin Li from Northwest University (西北大学) in Xi'an, China.

After two straight years in North America, the <u>2018 Annual Conference</u> will be held in the beautiful colonial town of Cartagena situated on the Caribbean Coast of Colombia, co-hosted with the University of Cartagena, 13-15 June 2018. Please remember to submit your abstracts and organized session proposals by January 15! The <u>2018 Short Course</u> will be held at Purdue from 28 July – 2 August 2018 (with the online course starting May 14). Applications are being accepted through 4 March 2018. The first session of <u>GTAP 101</u> will be offered between 23 April – 10 June 2018 with applications open through 4 February 2018. <u>GTAP</u> <u>PTA</u> will be offered between 20 August – 23 September 2018 and applications will be open from 8 January – 6 May 2018. We will soon make an announcement regarding the next offering of the GTAP Dynamic Short Course.

The GTAP Network continues to grow, with 16,500<sup>+</sup> members in 174 countries. In addition, the Center is pleased to welcome two new Consortium members: the Economic Research Institute for ASEAN and East Asia (ERIA) and McKinsey, which strengthen our links to East Asia and the private sector. We encourage you to follow GTAP on <u>social media</u> and to visit the GTAP website, <u>www.gtap.agecon.purdue.edu</u>, which contains news about the network, upcoming events and courses and an ever-increasing number of papers and references of critical importance to our research and work. We also encourage you to update your profile and submit your own papers, programs and tips for exploiting the database and enhancing our models. We look forward to seeing many of you in Cartagena in June 2018 for the 21<sup>st</sup> Annual Conference!

As had been anticipated in last year's letter, 2017 proved to be at the very least an interesting year, with many challenges being addressed by the GTAP community—changes to the Trans-Pacific Partnership, re-negotiation of NAFTA, Brexit, meeting the goals of the Paris Agreement, China's One Belt One Road initiative, addressing the Sustainable Development Goals (SDGs) and many others. This is our opportunity to thank all of you in the GTAP community who are addressing these important challenges. We look forward to working with you in the coming year to improve the tools, data and information sharing that facilitates our collective work.

Best wishes for a healthy, happy and productive 2018 from the Center for Global Trade Analysis at Purdue University.



Warm regards,

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## **GTAP Data Base**

The centerpiece of the Global Trade Analysis Project is the GTAP Data Base, a fully documented, publicly available global database containing complete bilateral trade information, transport and protection linkages. The GTAP Data Base represents the world economy and is utilized by thousands worldwide as a key input into contemporary applied general equilibrium (AGE) analysis of global economic issues. The upcoming release, GTAP 10, will feature four reference years as well as 141 regions for 65 GTAP commodities.

#### What's New in GTAP 10?

- Four reference years: 2004, 2007, 2011, 2014
- Geographic coverage
  - 121 countries representing 98% of world GDP and 92% of world population
  - 20 aggregate regions
  - 40<sup>+</sup> updated tables, with respect to version 9
  - Multi-year country Input-Output table allocation by GTAP reference year (as data permits)
- Expansion of sectoral coverage in manufactures and services sectors, beyond the traditional 57 sectors
- Updated sectoral concordances to CPC and ISIC classifications
- Domestic and international margins data
- Update of other regular data inputs:
  - Energy, emissions and macro-economic data
  - Agricultural domestic support and tariff data
  - Bilateral trade data and time-series of bilateral merchandise trade data

#### **Anticipated Release**

Mid-2018

www.gtap.agecon.purdue.edu/databases/v10/

## **GTAP Research Highlights**

Twenty-seventeen was a busy year for GTAP-based research. Nearly 70 news items referencing GTAP and/or the Center for Global Trade Analysis faculty and staff were published, as well as the following papers included in the GTAP Paper Series and *Journal of Global Economic Analysis*.

#### **GTAP Research Memoranda Series**

Introducing first and second generation biofuels into GTAP data base version 9 by Taheripour, Farzad, Luis Moises Pena Levano and Wally Tyner GTAP Research Memorandum No. 29

Development of GTAP version 9 Land Use and Land Cover database for years 2004, 2007 and 2011 by Baldos, Uris Lantz GTAP Research Memorandum No. 30

#### Journal of Global Economic Analysis

The *Journal of Global Economic Analysis* (JGEA) is co-edited by Thomas Hertel, Center for Global Trade Analysis, Purdue University and Niven Winchester, Joint Program on the Science and Policy of Global Change, Massachusetts Institute of Technology, and guided by an Editorial Advisory Board comprised of distinguished scholars and practitioners in AGE modeling and related disciplines.

#### Journal (cont.)

In 2017, the JGEA released the following issue and was included in the Web of Science Emerging Sources Citation Index. This mark of quality will improve the visibility of the journal, and articles published in the JGEA will now be included in analyses conducted on Web of Science data. This milestone also means that the JGEA is under consideration for inclusion in the flagship Social Sciences Citation Index.

#### Journal of Global Economic Analysis, Vol 2, No 1 (June 2017)

#### - Advances in Methods and Theory

The Standard GTAP Model, Version 7

by Erwin L Corong, Thomas W Hertel, Robert McDougall, Marinos E Tsigas, Dominique van der Mensbrugghe

<u>A Proximity-Based Approach to Labor Mobility in CGE Models with an Application to Sub-Saharan Africa</u> by Hans Lofgren, Martin Cicowiez

#### Advances in Software

The Calibration and Performance of a Non-homothetic CDE Demand System for CGE Models by Y-H Henry Chen

#### Advances in Pedagogy

Current Account Balances, Exchange Rates, and Fundamental Properties of Walrasian CGE World Models: A Pedagogical Exposition by André Lemelin

www.jgea.org

#### **Center for Global Trade Analysis Publications**

Burfisher, M.E. (2017). Introduction to computable general equilibrium models. 2e. Cambridge University Press.

- Henderson, B., A. Golub, Pambudi, D., Hertel, T., Godde, C., Herrero, M., Cacho, O., Steinfeld, H., and Gerber, P. (2017). The power and pain of market-based carbon policies: a global application to greenhouse gases from ruminant livestock production. *Mitigation and Adaptation Strategies for Global Change*. doi: 10.1007/s11027-017-9737-0.
- Laborde, D., Martin, W. & van der Mensbrugghe, D. (2017). Measuring the impacts of global trade reform with optimal aggregators of distortions. *Review of International Economics*.
- Taheripour, F., Cui, H., Tyner, W. (2017). An exploration of agricultural land use change at the intensive and extensive margins: implications for biofuels induced land use change. *Bioenergy and Land Use Change*. Edited by Qin Z, Mishra U, Hastings A: American Geophysical Union (Wiley).
- Taheripour, F., Zhao, X., Tyner, W. (2017). The impact of considering land intensification and updated data on biofuels land use change and emissions estimates. *Biotechnology for Biofuels*. <u>https://doi.org/10.1186/s13068-017-0877-y</u>
- Taheripour F., Tyner W.E., (2017), What Would Happen If We Don't Have GMO Traits?, in Andrew Schmitz, P. Lynn Kennedy, Troy G. Schmitz (ed.) *World Agricultural Resources and Food Security (Frontiers of Economics and Globalization, Volume 17)* Emerald Publishing Limited, pp.53 – 67

Brookes, G., Taheripour, F., Tyner, W. (2017), The Contribution of Glyphosate to Agriculture and Potential Impact of Restrictions on Use at the Global Level. *GM Crops & Food*. Taylor & Francis. <u>http://dx.doi.org/10.1080/21645698.2017.1390637</u>

- Diachuk, O., Chepeliev, M., Podolets, R., Trypolska, G., Venger, V., Saprykina, T., Yukhymets, R. (2017). Transition of Ukraine to the Renewable Energy by 2050. Edited by, Yuliia Oharenko, coordinator of the project "Scenarios for Ukraine's Energy Sector Development by 2050", and Oksana Aliieva, coordinator of the Climate Change and Energy Policy Program, Heinrich Boell Foundation Regional Office in Ukraine.
- Moore, Frances C., Uris L.C. Baldos and Thomas W. Hertel, 2017. "Economic Impacts of Climate Change on Agriculture: A Comparison of Process-Based and Statistical Yield Models" Environmental Research Letters http://iopscience.iop.org/article/10.1088/1748-9326/aa6eb2/meta

#### Publications (cont.)

- Cai, Y., A Golub, T. Hertel. Agricultural research spending must increase in light of future uncertainties. Food Policy 70 (2017) 71-83. DOI: 10.1016/j.foodpol.2017.06.002
- Yuan, Wen Jin, Yasnanhia Cabral, and Anton C. Yang. "U.S. International Trade Commission's Trade Facilitation Roundtable." *Journal of International Commerce and Economics*, July 2017. <u>http://www.usitc.gov/journals</u>.
- Golub, A., T. Hertel, and S. Rose. "Global Land Use Impacts of US Ethanol: Revised Analysis Using Dynamic GTAP-BIO framework". Book chapter in Handbook of Bioenergy Economics and Policy: Volume II. Modeling Land use and Greenhouse Gas Emissions Implications, edited by Madhu Khanna and David Zilberman. Springer 2017
- Taheripour, F., Zhao, X., & Tyner W.E., (2017) "The impact of considering land intensification and updated data on biofuels land use change and emissions estimates," *Biotechnology for biofuels*, *10:191*, DOI 10.1186/s13068-017-0877-y
- Taheripour, F. & Tyner, W.E., (2017) "What Would Happen If We Don't Have GMO Traits?," in Andrew Schmitz, P. Lynn Kennedy, Troy G. Schmitz (ed.) World Agricultural Resources and Food Security (Frontiers of Economics and Globalization, Volume 17) Emerald Publishing Limited, pp.53 – 67.
- Cai, Y., Golub, A., and Hertel, T.W., 2017. "Agricultural Spending Must Increase in Light of Future Uncertainties" Food Policy 70:71-83. <u>http://www.sciencedirect.com/science/article/pii/S0306919216303426</u>
- Liu, J., Hertel, T.W., Lammers, R., Prusevich, A., Baldos, U., Grogan, D. and Frolking, S., 2017. Achieving Sustainable Irrigation Water Withdrawals: Global Impacts on Food Production and Land Use. *Environmental Research Letters* (in press).
- Diachuk, O., Chepeliev, M., Podolets, Trypolska, R.G., et al., "Transition of Ukraine to the Renewable Energy by 2050", Kyiv: Publishing house "Art Book" Ltd., 2017. – 88 p. Available at: https://ua.boell.org/sites/default/files/transition\_of\_ukraine\_to\_the\_renewable\_energy\_by\_2050.pdf

#### **Center for Global Trade Analysis Presentations**

- Cai, Y., Golub, A., Hertel, T., and Judd, K. (2017, January). Developing agricultural r&d policy in the face of future uncertainties. Presented at the *Allied Social Sciences Association Annual Meeting*. Chicago, IL.
- Chepeliev, M, McDougall, R., and van der Mensbrugghe, D. (2017, March). Global energy subsidies and CO2 emissions. *Presented at The World Bank*. Washington, DC.
- Hertel, T.W., (2017, April). Based on joint work with U.L.C. Baldos, Food and environmental security in an era of globalization. *Presented at the University of Massachusetts Amherst*. Amherst, MA.
- Hertel, T.W., (2017, March). Based on joint work with U.L.C. Baldos, Food and environmental security in an era of globalization. *Presented at North Carolina State University*. Raleigh, NC.
- Hertel, T.W. (2017, January). Based on work with Uris L.C. Baldos, Global change and the challenges of sustainably feeding a growing planet. *Presented at the IFPRI Policy Seminar*. Washington, D.C.
- Hillberry, R. (2017, February). Expediting trade: impact evaluation of an in-house clearance program. Seminar presented at Indiana University Dept. of Economics. Bloomington, IN.
- Aguiar, A. (2017). Estimation of home bias data base for Public Procurement Analysis (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5281
- Akgul, Z., Carrico, C., & Tsigas, M. (2017). Does the Labor Composition of Fixed Business Costs Matter? (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5370</u>
- Baldos, U. (2017). Food and environmental security in 2050: An application of gridded agricultural economic modelling (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5373</u>

#### **Presentations (cont.)**

- Carrico, C. (2017). Disentangling Distributional Effects of Trade: Incorporating U.S. Occupational Statistics into an MRIO Framework (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5352</u>
- Chepeliev, M., & van der Mensbrugghe, D. (2017). Global Energy Subsidies Reform: Inclusive Approaches to Welfare Assessment (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5299</u>
- Corong, E. (2017). Incorporating Domestic Trade and Transport Margins in the GTAP Data Base and model (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5317
- Cui, H., & Tyner, W. (2017). Modeling Land Intensification Response in GTAP: Implications for Biofuels Induced Land Use Change (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5287</u>
- Cai, Y., Golub, A., & Hertel, T. (2017). Developing long-run agricultural R&D policy in the face of uncertain economic growth (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5288</u>
- Haqiqi, I. (2017). Global Economic Response to Water Scarcity (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <a href="http://www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5391">www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5391</a>
- Hertel, T., & Baldos, U. (2017). Attaining food and environmental security in an era of globalization (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5399</u>
- Fernandes, A., Hillberry, R., & Berg, C. (2016). Expediting Trade: Impact Evaluation of an In-House Clearance Program (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA; World Bank Policy Research Working Papers). Purdue University, West Lafayette, IN: Global Trade Analysis Project (GTAP). www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5284
- Liu, J., Hertel, T., Lammers, R., Prusevich, A., Baldos, U., Grogan, D., & Frolking, S. (2017). Achieving sustainable irrigation water withdrawals: global impacts on food security and land use (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <a href="http://www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5346">www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5346</a>
- Pena-Levano, L., Taheripour, F., & Tyner, W.E., (2017). Modeling emission reductions and forest carbon sequestration in GTAP: Data Base and model improvements (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5366
- Sun, S., Hertel, T., Webster, M., Baldos, U., & Liu, J. (2017). Biomass Co-Firing Potential and Land Use Changes: A General Equilibrium Study in the United States (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5295
- Taheripour, F., Tyner, W., & Baldos, U. (2017). Crop production, cropland use, harvest frequency, and land intensification in economic models (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5328</u>
- Yao, G., Hertel, T., & Taheripour, F. (2017). Economic Insights into Telecoupling: Lessons from China's Soybean Boom (Presented at the 20th Annual Conference on Global Economic Analysis, West Lafayette, IN, USA). Purdue University, West Lafayette, IN. <u>www.gtap.agecon.purdue.edu/resources/res\_display.asp?RecordID=5334</u>
- Hertel, T.W., (2017), "Assessing the Inter-regional Incidence of Climate Impacts on Agriculture," https://mygeohub.org/resources/1362.

#### **Presentations (cont.)**

- Taheripour, F., (2017) An Exploration of Agricultural Land Use Change at Intensive and Extensive Margins: Recent Evidence and Implications for Biofuels Induced Land Use Change Modeling (CRC Workshop on Life Cycle Analysis of Transportation Fuels, Argonne National Laboratory, Argonne, IL, October 24-26, 2017).
- Hillberry, R. (2017). Trade Facilitation: The Nitty Gritty of Cross-Border Trade (Center for International Education, Washington and Lee University, October 30, 2017).
- Farzad Taheripour, "Current GMO landscape: What would happen if we don't have GMO trait?", the American Public Garden Association Conference in Hamilton, Ontario, Canada, June 19-23, 2017.
- Hertel, T.W., based on joint work with Uris L.C. Baldos and Frances Moore, "Assessing the Inter-regional Incidence of Climate Impacts on Agriculture", Presented as part of the ISEE Congress on Climate Change, University of Illinois, September 19, 2017.
- Hillbery, R., "Impact of Border Management Reforms in the Macedonian Food and Veterinary Agency", delivered in World Bank video conference with an audience of border agency officials in FYR Macedonia, September 19, 2017
- Chepeliev, M., "Meeting Planetary Boundaries: Economy-Wide Assessment of Global Policies towards Strong Sustainability", USSEE 2017 Conference – Ecological Economics: From Theory to Practice, Macalester College, St. Paul, MN, June 25-28, 2017.
- Chepeliev, M., Pena-Levano, LM, Florax, R., "Capital-Labor and Armington Constant Substitution Elasticities: A Meta-Analysis", Presented at the Agricultural and Applied Economics Association (AAEA) Annual Meeting, Chicago, IL, July 30 – August 1, 2017.
- Hertel, T.W., Sohngen, B., Golub, A., Cai, Y., & Kim, J., "Optimal Timber Management Decisions in the Face of Future Uncertainties". Presented at the Agriculture and Applied Economics Association (AAEA) 2017 Annual Meeting, Chicago, IL, July 31 – August 1, 2017.
- Hertel, T.W., "GLASS: Global to Local Analysis of Systems Sustainability", Presented at the IMPACTS-World Conference in Potsdam, Germany, October 13, 2017.
- Hertel, T.W., "An Economic Perspective and Land Use and Leakage from Agricultural Technology and Climate Change Impacts and Mitigation Policies", Opening plenary talk for the Conference on Global Land Use and Leakage, Berlin, Germany, November 9, 2017.

#### **Center for Global Trade Analysis Awards/Honors**

- Liu, J., H. Mooney, V. Hull, S. Davis, J. Gaskell, T. Hertel, J. Lubcheco, K. Seto, P. Gleick, C. Kremen and S. Li.. "Systems Integration for Global Sustainability", Science (347):6225. *This paper won the 2017 outstanding paper award from the Ecological Society of America.*
- Steinbuks, J. and T. W. Hertel (2016) "Confronting the Food-Energy-Environment Trilemma: Global Land Use in the Long Run", Environmental and Resource Economics, 63:545 doi:10.1007/s10640-014-9848-y. *This paper was selected as one of four outstanding journal articles by the European Association of Environmental and Resource Economists and was recognized at the Association's annual meetings in Athens, 2017.*
- Thomas Hertel, Laura Bowling, Matt Huber, Keith Cherkauer, Carol Song, David Johnson, Dominique van der Mensbrugghe, Uris Baldos, Jing Liu, Purdue University. "The Discovery Park Big Idea Challenge", "Managing the Global Commons: Sustainable Agriculture and Use of World's Land and Water Resources".

Thomas Hertel named 2017 AAAS Fellow in Agriculture, Food, and Renewable Resources

### 2018 GTAP Events

#### 2018-1 GTAP 101 Course

"Introduction to Computable General Equilibrium Modeling" April 23 – June 10, 2018 | Online Course \*Applications due February 4

#### 2018 GTAP Advisory Board Meeting

June 11-12, 2018 | Cartagena, Colombia

#### 21st Annual Conference on Global Economic Analysis

"Framing the future through the Sustainable Development Goals" June 13-15, 2018 | Cartagena, Colombia \*Abstracts and organized session proposals due January 15

#### 26<sup>th</sup> Annual Short Course in Global Trade Analysis

"Introduction to Applied General Equilibrium Analysis in a Multi-Region Framework" July 28 – August 2, 2018 | West Lafayette, IN, USA \*Applications due March 4

#### 2018 GTAP PTA Course

"Applied Policy Analysis: Mini-course on Preferential Trade Agreements" August 20 – September 23, 2018 | Online Course \*Accepting applications January 8 – May 6

#### 2018-2 GTAP 101 Course

"Introduction to Computable General Equilibrium Modeling" September 24 – November 11, 2018 (tentative dates) | Online Course \*Accepting applications March 5 – July 1

#### 2018 Short Course in Dynamic Global Trade Analysis

"Dynamic Modeling and Applications in Global Economic Analysis" October 5-10, 2018 | West Lafayette, IN, USA \*Accepting applications early February – May 6

www.gtap.agecon.purdue.edu/events/



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