

Greetings from GTAP-Central!

This past year has proven to be another busy year on many fronts including bilateral and multilateral trade relations and the modalities for implementing the Paris Agreement—particularly in light of the increasing reports of alarming weather-related events and depressing reports on the loss of bio-diversity. Work at the Center has focused around a number of areas that touch on these and other topics. We are happy to be working on these important issues, but these demands have also increased stress on our limited resources. We have a number of positive achievements to be proud of over the past year, including:

- Public release of [GTAP 10](#) that had been much anticipated. It has an additional reference year, 2014, numerous updates to country input-output tables, a new country (Tajikistan) and a new sector breakout that takes the number of standard sectors from 57 to 65. The Data Base includes other significant inputs including export subsidies (thanks to Jayson Beckman and Alessandro Antimiani), EU domestic support (Pierre Boulanger, George Philippidis and Hans Jensen) and services trade data (IMF). We are in the process of releasing the satellite accounts such as the MRIO, GTAP-Power, greenhouse and non-greenhouse gas emissions, domestic margins, and GDyn and GMIG extensions, as well as the time-series trade data. We also expect a new release of TASTE consistent with GTAP 10, as well as the GTAP-AEZ data base. We have begun work on version 11, that will have a 2017 reference year. We anticipate the first pre-release in the first half of 2020.
- Work continues on the various extensions of the new version of the GTAP Model. GTAP-HS extends the standard model to incorporate the modeling of trade at the HS-6 level using data from the TASTE database. A new (now standard) recursive-dynamic version of the GTAP model, GTAP-RD, is currently available along with a GEMPACK-version of the shared socio-economic pathways (SSPs) population and GDP scenarios. And work is nearly done on the ‘facelifted’ version of the GTAP-E model that extends the standard model to focus on energy and CO₂ emissions and now also incorporates the GTAP-Power Data Base.
- The seventh issue of the JGEA was published in June and publication of the eighth issue is imminent. Topics cover the reference documentation for the GTAP 10 Data Base, new estimates of the international trade margins, a GTAP-based recursive dynamic model, a new interpretation of the Melitz model, description of a new U.S. subnational database and model, and a GTAP model with a micro-consistent theory of unemployment. More details, as well as the papers and accompanying supplementary materials permitting replication of each of these studies are available at <http://www.jgea.org>.

The Center is actively pursuing a number of research areas. Tom and colleagues have been awarded an NSF grant that aims to combine 4 disparate models (water, soils, SIMPLE and Envisage) to assess synergies and tradeoffs for a set of Sustainable Development Goals (SDGs) with a focus on innovations at the nexus of food, energy and water systems (INFEWS). The ‘baseline’ project that started with an initial workshop in Paris in 2018 is culminating in a series of papers that should be available in 2020. Work has continued on GTAP-HS in partnership with a number of GTAP Consortium members and a new project has been initiated (sponsored by

the USDA) for a new set of estimates of Armington elasticities of import demand and export supply at the HS-6 level. The WINDC Consortium, spearheaded by Tom Rutherford and based at the University of Wisconsin, has made available a new U.S. state-level database (spanning 1997-2016) wherein the entire build stream is open-source. In addition, a GAMS-based model is available with the release of this subnational model and the Center has developed a GEMPACK version of the model that hones closely to the GTAP style. There continues to be much work underway on NTMs, including UNCTAD's NTM week that was held in Geneva in October. In addition, there will be an NTM pre-Conference event in Tokyo in June, led by Ken Kawasaki, that will highlight recent advances in this area.

At the beginning of the year, the Center hired a new operations manager, Holly McIntire, who many met at the annual conference in Warsaw. Two of the Center's graduate students were awarded PhD's this past year: Iman Haqiqi and Kayenat Kabir—hearty congratulations to both. We were saddened and shocked by the sudden passing of Wally Tyner. As department head, Wally was instrumental in setting up the institutional framework for the GTAP Center in its early days, facilitating its embrace within the Department of Agricultural Economics and the development of the GTAP Consortium. Beyond his strong support of the Center, Wally was a valued mentor and dear friend to many of us and he has been sorely missed. The Center plans to offer a [travel scholarship in Wally's honor](#) for the 2020 GTAP Conference.

The GTAP courses continue to do well. Enrollment in GTAP 101 has been robust. A somewhat revised GTAP Dynamic Short Course was given in April 2019 and was very well attended and will be delivered again from 4 – 8 October 2020 at Purdue University. A new online offering on the firm heterogeneity model (GTAP-HET) has recently finished—many thanks to Zeynep Akgul, the course instructor. We continue to think about other potential online offerings such as GTAP-HS (linked partial and general equilibrium modeling) and GTAP-E (energy and emissions). Feedback would be welcome. The 2020 Short Course will be held at Purdue from 20-24 July (with the online course starting 11 May). Applications are being accepted through 1 March. The first session of GTAP 101 will be offered from 16 March – 3 May, with applications open through 5 January. GTAP PTA will be offered from 4 May – 12 June, the application deadline is 23 February. Potential students should monitor the GTAP website, [GTAP-L Mailing List](#), and [GTAP social media](#) for additional information.

GTAP's 22nd Annual Conference on Global Economic Analysis was held in historic Warsaw, Poland, and co-hosted with the University of Warsaw. The venue was wonderful; the Conference's first time in Eastern Europe and that coincided with the 30th anniversary of the fall of the Berlin Wall. The Center was very pleased to award the 2019 Alan A. Powell Award to Maryla Maliszewska from the World Bank. Maryla has been a strong supporter of the Center from her seat as the World Bank's representative to the GTAP Advisory Board and her research at the World Bank has done much to influence the Center's work program particularly on trade-related issues. Four highly valued members of the GTAP Network were selected to be Research Fellows for 2019-2022: Eddy Bekkers (WTO), Wolfgang Britz (University of Bonn), Everett Peterson (Virginia Tech) and Anna Strutt (Waikato University). The 2019 Ken Pearson Travel Funds award, sponsored by the Centre of Policy Studies (CoPS), was conferred to Turner Cotterman, a PhD student in the Department of Engineering and Public Policy at Carnegie Mellon University. In addition, the Alex Meeraus/Thomas Rutherford Travels Funds, sponsored by the GAMS Development Corporation, were awarded to two recipients: Y.-H. Henry Chen,

a research scientist with MIT's Joint Program on the Science and Policy of Global Change and Gessica Souza, a PhD student at the Universidade Federal de Minas Gerais.

Be sure to mark your calendars for the 2020 Annual Conference which will be held in Tokyo, Japan and co-hosted with the National Graduate Institute for Policy Studies (GRIPS), 17-19 June. We are indebted to long-time GTAP Board Member Kenichi Kawasaki for making this happen. There is much excitement about being in Tokyo for the first time, in addition to being a pre-event to the 2020 Summer Olympics! Please remember to submit your abstracts and organized session proposals by 15 January!

The GTAP Network continues to grow, with nearly 20,000 members in 176 countries. We encourage you to follow GTAP on social media and to visit the GTAP website, 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 data base and enhancing our models. We look forward to seeing many of you in Tokyo in June for the Annual Conference!

As the work we do remains highly relevant to the decision- and policy-makers around the world, we look forward to collaborating 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 2020 from the Center for Global Trade Analysis at Purdue University.

Warm regards,

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