

## **The GTAP Advisory Board Meeting, April 2000 Massachusetts Institute of Technology (MIT)**

### **GTAP activities of MIT**

#### MIT Joint Program on the Science and Policy of Global Change

During the past year the MIT Joint Program on the Science and Policy of Global Change completed the updating of its *Emissions Prediction and Policy Analysis (EPPA) Model* to use the GTAP-E data. Several analyses were completed using this new version of the EPPA model. Ongoing work involves efforts to complete the documentation of this version of EPPA, endogenizing the control costs of greenhouse gases other than carbon dioxide, and efforts to break out the transportation sector.

In the future we hope to develop the agriculture sector modeling to consider impacts of climate change on crops, livestock and forests. Given this direction, we are interested in the development of a satellite data set on physical land use like that developed for energy.

#### Publications

Babiker, M. J. Reilly, H. Jacoby, 2000, The Kyoto Protocol and Developing Countries, *Energy Policy* (forthcoming). Also as: Babiker, M. J. Reilly, and H. Jacoby, The Kyoto Protocol and Developing Countries, MIT Joint Program on the Science and Policy of Global Change, Report No. 56 (Oct. 1999), 20 pp.

Babiker, M, J. Reilly, A.D. Ellerman, Japanese Nuclear Power and the Kyoto Agreement, submitted, *Journal of Japanese and International Economies*. Also as: Babiker, M., J. Reilly, and A.D. Ellerman, Japanese Nuclear Power and the Kyoto Agreement, MIT Joint Program on the Science and Policy of Global Change, Report No. 51, August, 1999, 12 pp.

Babiker, M. and H.D. Jacoby, 1999. Developing Country Effects of Kyoto-Type Emissions Restrictions. In: Economic Impact of Mitigation Measures [J. Pan, N. van Leeuwen, H. Timmer, and R. Swart] CPBN, The Hague, Netherlands, 153-168. Also as: Babiker, M. and H.D. Jacoby, 1999. Developing Country Effects of Kyoto-Type Emissions Restrictions. In: Economic Impact of Mitigation Measures MIT Joint Program on the Science and Policy of Global Change, Report No. 53 (Oct. 1999), 16 pp.

Babiker, M., Bautista, M.E., Jacoby, H.D., Reilly, J.M. Effects of Differentiating Climate Policy by Sector: A U.S. Example. In: Sectoral Effects of Mitigation Policies, IPCC Workshop Report (forthcoming). Also as: Babiker, M., Bautista, M.E., Jacoby, H.D., Reilly, J.M. Effects of Differentiating Climate Policy by Sector: A U.S. Example. MIT Joint Program on the Science and Policy of Global Change, forthcoming

Reilly, J., M. Mayer, and J. Harnisch, Multiple Gas Control Under the Kyoto Agreement, in Second International Symposium on Non- CO<sub>2</sub> Greenhouse Gases (J. van Ham, A.P.M. Baede, L.A. Mayer, and R Ybema, eds.) Kluwer Academic Publishers, Dordrecht, The Netherlands (forthcoming). Also as: Reilly, J., M. Mayer, and J. Harnisch, Multiple Gas Control Under the Kyoto Agreement, MIT Joint Program on the Science and Policy of Global Change, Report No. 58, March, 2000, 7 pp.