

Kento Taro Magara-Gomez

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a. Professional Preparation

Universidad Industrial de Santander	Chemical Engineering	B.Sc., 1998
Tokyo Institute of Technology	Environmental Eng	M.Eng., 2002
University of Wisconsin-Madison	Env. Science and Tech.	Ph.D., 2011
Purdue University	Earth, Atm & Plan. Sciences	Postdoctoral RA, 2019

b. Appointments

2008- Associate Professor, Environmental Engineering, Universidad Pontificia Bolivariana – Bucaramanga, Colombia

2003-2008 Assistant Professor, Environmental Engineering, Universidad Pontificia Bolivariana – Bucaramanga, Colombia

2003-2005 Chemistry Area Coordinator, Universidad Pontificia Bolivariana – Bucaramanga, Colombia

2010-2011 Research Assistant, Environmental Science and Technology, University of Wisconsin-Madison

2009-2010 Teaching Assistant, Environmental Science and Technology, University of Wisconsin-Madison

2008-2009 Research Assistant, Environmental Science and Technology, University of Wisconsin-Madison

c. Publications

Zhang, H., Magara-Gomez, K. T., Olson M. R., Okuda, T., Walz, K. A., Schauer, J. J., Kleeman, M. J. (2015) “Atmospheric impacts of black carbon emission reductions through the strategic use of biodiesel in California” *Science of the Total Environment*. Volume 538, 15 December 2015, Pages 412–422. <http://dx.doi.org/10.1016/j.scitotenv.2015.08.030>

Magara-Gomez, K. T., Olson, M. R., et al. (2014) “Effect of Ambient Temperature and Fuel on Particle Number Emissions on Light-Duty Spark-Ignition Vehicles”. *Aerosol and Air Quality Research* 14: 1360-1371.

Magara-Gomez, K. T., Olson, M. R., et al. (2012) “Sensitivity of Diesel Particulate Material Emissions and Composition to Blends of Petroleum Diesel and Biodiesel Fuel”. *Aerosol Science and Technology* 46:10, 1109-1118 <http://dx.doi.org/10.1080/02786826.2012.696315>

Magara-Gomez, K. T., Olson M. R., et al. (2012). "Sensitivity of hazardous air pollutant emissions to the combustion of blends of petroleum diesel and biodiesel fuel." *Atmospheric Environment* (50) 2012. 307-313

d. Synergistic Activities

Host and organizer, V Congreso Colombiano y Conferencia Internacional en Calidad del Aire y Salud Pública (CASAP), 2015

Head of Environmental Engineering Research Group, Universidad Pontificia Bolivariana, 2006-2008

Scientific committee member, IV, V and VI Congreso Colombiano y Conferencia Internacional en Calidad del Aire y Salud Pública (CASAP), 2013, 2015 and 2017

e. Collaborators & Other Affiliations

(i) Collaborators *(List all persons alphabetically who are current or past collaborators on a project, book, article, report, abstract, or paper for the past four years. Include current organizational affiliations for each, and indicate if you have no collaborators to list.)*

J.J. Schauer, Department of Civil and Environmental Engineering, University of Wisconsin-Madison; M.M. Shafer, Wisconsin State Laboratory of Hygiene, University of Wisconsin-Madison; M.R. Olson, Department of Civil and Environmental Engineering, University of Wisconsin-Madison; J. Baumgartner, Department of Public Health, McGill University; S. Weichental, Department of Environmental Engineering, McGill University; O. Rouhani, Department of Civil Engineering, McGill University; E. Carter, Department of Civil and Environmental Engineering, Colorado State University; N. L. Ng, School of Chemical and Biomolecular Engineering, Georgia Institute of Technology; N.Y. Rojas, Department of Chemical Engineering, Universidad Nacional de Colombia; J.E. Pachon, Department of Environmental Engineering, Universidad de La Salle; M.V. Toro, Universidad Pontificia Bolivariana-Medellin; O.M. Casas, Instituto Colombiano del Petroleo (ICP).

(ii) Graduate and Postdoctoral Advisors

Professor Greg Michalski, Earth, Atmospheric and Planetary Sciences Department, Purdue University. Principal postdoctoral sponsor, 2019.

Professor Lisa Welp, Earth, Atmospheric and Planetary Sciences Department, Purdue University. Principal postdoctoral sponsor, 2019.

Professor James Schauer, Environmental Science and Technology Program, University of Wisconsin-Madison. Graduate Advisor (PhD), 2008-2011.

Professor Masaru Ishida (Retired), Environmental Chemistry and Engineering Department, Tokyo Institute of Technology, Graduate Advisor (MEng), 1999-2001.

f. Research Impacts

Research led to local environmental authorities acknowledgement of real air quality issues and their impact on public health in the city of Bucaramanga, Colombia

Better knowledge of the impact of using alternatives to fossil fuels on vehicular gas and particulate emissions for both onroad and nonroad vehicles

Improved local capacity to design and build particulate matter emissions control equipment, for small and medium size point sources such as boilers and furnaces