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**NARO-MARCO International Symposium “Nitrogen Cycling and Its Environmental Impacts in East Asia”**

— 2<sup>nd</sup> International Conference of Nitrogen Cycling and Its Environmental Impacts in East Asia —

**Date:** November 19–22, 2018

**Venue:** NARO-MARCO Symposium (Oral Session) & JSSSPN Special Session (Poster Session)  
Hall 200 & Room 202, 2<sup>nd</sup> Floor, International Congress Center Epochal Tsukuba  
(<https://www.epochal.or.jp/eng/index.html>)  
Takezono 2-20-3, Tsukuba, Ibaraki 305-0032, Japan  
Towards INMS Workshop  
Banquet Room “Tachibana”, 4<sup>th</sup> Floor, Okura Frontier Hotel <Epochal Bldg.>  
(<https://www.okura-tsukuba.co.jp/eng/>)  
Takezono 2-20-1, Tsukuba, Ibaraki,305-0032, Japan

**Organized by:** National Agriculture and Food Research Organization (NARO)  
Monsoon Asia Agro-Environmental Research Consortium (MARCO)  
Japanese Society of Soil Science and Plant Nutrition (JSSSPN)  
International Nitrogen Initiative (INI) East Asia Center  
National Institute for Environmental Studies (NIES)  
Japan International Research Center for Agricultural Sciences (JIRCAS)

**Supported by:** Many organizations (tentative)

- Ibaraki Prefecture
- Tsukuba City
- National Institute of Advanced Industrial Science and Technology (AIST)
- Forestry and Forest Products Research Institute (FFPRI), Forest Research and Management Organization
- Ibaraki University
- Japan Society for Atmospheric Environment
- The Institute of Life Cycle Assessment, Japan
- Japanese Society of Soil Physics

and more...

Many projects and activities (tentative)

- Towards INMS (International Nitrogen Management System)
- Science and Technology Research Promotion for Agriculture, Forestry, Fisheries and Food Industry (28005A)
- Grants-in-Aid for Scientific Research (KAKENHI)

and more...

**Rationale:** Nitrogen is a prerequisite for all living things on earth. The remarkable population growth and economic development of the past half century in East Asia have been realized with a large increase in the anthropogenic production and use of “reactive nitrogen” for supplying food, energy, and other materials. However, negative impacts to the local, regional, and global environments as a consequence of the excessive use of anthropogenic reactive nitrogen have been concerned and the development of appropriate management system of reactive nitrogen has been an urgent issue in East Asia and the world.

The global-scale international project “Towards INMS” which aims at maximizing the benefit and minimizing the threat from the use of reactive nitrogen has been launched for the 4 year period from December 2017, led by the United Nations Environment Program (UNEP) and implemented by the International Nitrogen Initiative (INI). The Towards INMS

activities include “Regional Demonstration in East Asia” which has been started in collaboration with the nitrogen experts from Japan, China, South Korea, and the Philippines. However, much more researchers, policy makers, and all the stakeholders from different areas are necessary and very welcome to voluntarily participate to Towards INMS.

This Symposium will aim at:

- Share the current information and knowledge and exchange opinions between participants on the nitrogen cycling and its environmental impacts in East Asia and the world
- Discuss on the research results and future directions for solving the regional and global scale nitrogen-related problems
- Contribute to Towards INMS project for realizing sustainable nitrogen use through optimization of nitrogen cycling at various scales
- Provide a forum for planning future cooperation reinforcement between participants, organizations, regions, and countries

This Symposium will be held as one of the activities of MARCO which was organized on December 2006 in Tsukuba, Japan, according to the agreement of the participants from 15 countries in Monsoon Asia. Since that, MARCO has promoted international collaboration for advancing research activities on the issues of agriculture and the environment in Monsoon Asia, by hosting a couple of international symposia or workshops every year, setting up a website as a venue for exchanging consortium information, and helping train the people who will carry on activities under the consortium. For more information, visit <http://www.naro.affrc.go.jp/archive/niaes/marco/index.html>.

This Symposium is also positioned as the “2<sup>nd</sup> International Conference of Nitrogen Cycling and Its Environmental Impacts in East Asia” to continue the series of International Nitrogen Conference in East Asia, mainly supported by Towards INMS. The first one have been held in Nanjing, China, on October 19–22, 2017; moreover, the preliminary one had also been held in Tsukuba, Japan, on August 23–24, 2016.

This Symposium includes the Special Session (Poster Session) organized by JSSSPN and will contribute to the international activities of the “International Decade of Soils 2015–2024” by the International Union of Soil Science (IUSS).

This Symposium will also contribute to the world wide activities of the UN Sustainable Development Goals (SDGs) in the 2030 Agenda for Sustainable Development.

**Website:** <http://www.naro.affrc.go.jp/english/events/laboratory/niaes/081536.html>

**Registration:** Free of charge for attending the Symposium, Special Session, and Field Excursion. Further information is available in the Symposium website.

**Abstracts:** All kinds of studies on “Nitrogen Cycling and Its Environmental Impacts” are invited to submit an Abstract in English for Oral or Poster presentation. The template file of Abstract is available in the Symposium website.

<b>Program:</b>	19 Mon	14:00~18:00	Registration open, Poster setting, Icebreaker
		18:00~	Towards INMS Workshop I
	20 Tue	9:00~17:00	Opening Session, Keynote Lectures, Oral & Poster Sessions
		17:00~19:00	Towards INMS Workshop II
		19:00~	Social Gathering
	21 Wed	9:00~17:00	Keynote Lectures, Oral & Poster Sessions, General Discussion & Wrap-up Session, Closing Remarks
	22 Thu	9:00~17:00	Scientific Field Excursion in Kasumigaura Basin

**Keynotes:** Prof. Wilfried Winiwarter, International Institute for Applied Systems Analysis (IIASA), Austria  
Prof. Xiaoyuan Yan, Institute of Soil Science, Chinese Academy of Science (CAS), China  
... and more

**Committees:** Organizing Committee

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Xiaoyuan Yan, Institute of Soil Science, CAS, China  
Xiaotang Ju, China Agricultural University, China  
Baojing Gu, Zhejiang University, China  
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Yusuke Takata, Institute for Agro-Environmental Sciences, NARO, Japan  
Kaoru Abe, Institute for Agro-Environmental Sciences, NARO, Japan  
... and more

Scientific Committee

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Junko Shindo, University of Yamanashi, Japan  
Eiji Yamasue, Ritsumeikan University, Japan  
... and more

