



The GPNM Update

Chairman's review on the work of the Global Partnership on Nutrient Management

Highlights



End year message

As we come to the close of a highly productive year for the GPNM, let us vision opportunities for the coming year of 2016. Thanks to all of you who continue to exhibit deep commitment to this issue and who have contributed substantially to the activities listed in this update and many more. On behalf of GPNM, best wishes to you and your families during this festive season.

Dr. Greg Crosby, Chair

The Chilika Development Authority (CDA) launches its Chilika Lake 2014 Ecosystem Health Report Card

The [Chilika Lake](#) 2014 Ecosystem Health Report Card is the update to the first report card published in [2012](#). The Ecosystem Health Report Card is a method of integrating three broad indices of environmental quality; water quality, fisheries and biodiversity to facilitate the process of communicating the state of the environment to a wide stakeholder audience. The [Chilika Development Authority](#), a collaborating GPNM partner presented the 2014 Ecosystem Health Report Card during the GPNM Asia Nutrient Platform workshop at the [East Asia Seas Congress](#) on 18th November 2015. According to the 2014 Report Card the ecosystem health of Chilika Lake attained a 'B' ranking based on the rating of the water quality, fisheries and biodiversity indices. The Report Card methodology is being replicated through the GEF-Global Nutrient Cycling Project to [Laguna de Bay](#) in the Philippines.



Presentation at the East Asia Seas Congress:
L-R: Dr. Ajit Pattnaik, CDA; Dr. Vu Si Tuan, Vietnam Administration of Seas and Islands; Dr. Christopher Cox, UNEP

Massive Open Online Course (MOOC) on Nutrients and Wastewater management under development

The Global Partnership on Nutrient Management (GPNM) and the [Global Wastewater Initiative \(GW²I\)](#) have been exploring the possibility of developing Massive Open On-line Course (MOOC) modules on nutrient & wastewater management to aid outreach and capacity building for key stakeholders. It is proposed to develop an 'integrated' MOOC that merges the two thematic areas given the extensive overlap in many of the key themes, desired learning objectives and capacity development outcomes. Users of the MOOC will select the relevant modules depending on their needs. The GPNM and GW²I are in the process of sourcing an institution that will implement the MOOC. The MOOC is expected to be ready tentatively by August 2016.



Celebrating 20 Years of Protecting the Marine Environment

The [Global Programme of Action for the Protection of the Marine Environment from Land Based Activities \(GPA\)](#) marked its 20th anniversary in Washington DC with commemorative celebrations on the 17th November 2015. The event was co-hosted by [UNEP's Regional Office for North America \(RONA\)](#). Participants from collaborating governments and international development partners engaged in activities that included a publications launch, presentations and panel discussions on achievements of the GPA and challenges to be addressed. The GPNM hosted a panel discussion on Nutrients Management that was moderated by Vincent Sweeney, GPA Coordinator. Panel members were Dr. Greg Crosby, of the [USDA-NIFA](#) and GPNM Chair, Dr. Clement Lewsey, of the [National Oceans Service, NOAA](#) and Dr. Prem Bindrabhan of the [Virtual Fertilizer Institute](#). The GPNM congratulates UNEP and the GPA for its stalwart leadership in oceans conservation and pledges continued support.



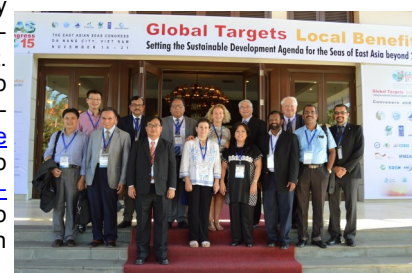
Dr. Greg Crosby, GPNM Chair addressing the audience.



L-R: Patricia J. Beneke, UNEP North America Regional Director, Senator Sheldon Whitehouse (D-RI), U.S. renowned marine life artist and conservationist, Wyland

Countries endorse the mandate of the GPNM Asia Regional Nutrient Platform

The GPNM organised a Technical and Policy Workshop on Sustainable Nutrient Management within the [East Asian Seas Congress](#) on 18th November 2015, held in DaNang City, Vietnam. The event, held under the aegis of the GPNM Asian Nutrient Platform was co-organized in collaboration with the [Partnerships in Environmental Management for the Seas of East Asia \(PEMSEA\)](#). The workshop aimed to showcase recent work of the GPNM under the GEF-funded Global Nutrient Cycling (GNC) Project and foster buy-in among countries of the region to the mandate of the Platform in the context of promoting policy and technical cooperation for improved nutrient management practice. International and regional development partner agencies, collaborators on prior Platform meetings and Regional Seas Programmes contributed to the workshop. Country delegates in attendance were from Cambodia, China, Indonesia, the Republic of Korea, the Philippines, Thailand and Vietnam. Countries highlighted priority areas for redress and endorsed the mandate of the Asia Nutrient Platform and agreed that the Regional Seas Programmes be used as entry points for the Platform to strengthen formal governmental support. The summary of the workshop proceedings are available at PEMSEA's conference website at ([see page 4](#)), along with the workshop main [Conclusions and Recommendations](#). The full workshop proceedings will be available on the GPNM website shortly.



The Global Partnership on Nutrient Management (GPNM) is a multi-stakeholder partnership comprising of governments, the private sector, the scientific community, civil society organizations and UN agencies committed to promoting effective nutrient management (with a focus on nitrogen and phosphorus) to achieve the twin goals of food security through increased productivity and conservation of natural resources and the environment. The United Nations Environment Programme (UNEP), through the Coordination Office of the Global Programme of Action for the Protection of the Marine Environment from Land-based Activities (GPA), provides the Secretariat of GPNM. Read more at www.nutrientchallenge.org



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News & Emerging Issues

Technology drives sustainable agricultural development including improved nutrient management in China

Source: *The World Bank*

Guangdong Province in China has revolutionized the use of technology to boost sustainable agriculture. The Guangdong Agricultural Pollution Control Project (GAPCP), a US\$200-million project supported by the World Bank, has enabled farmers in Guangdong Province to benefit from a 'Smart' card technology system which enables them to reduce the amount of pesticides and fertilizers used, while reducing pollution of local water systems. GAPCP was initiated in 2014 to address pollution from both livestock and crop production on a large scale, as a result of China's first national pollution survey of 2010 that showed agriculture as the leading cause of surface water pollution in China. The project entails transforming animal waste into household energy and organic fertilizer. The organic fertilizer is then purchased by farmers at a subsidized cost using the 'Smart' card. Though the project is still under trial period, the residents of Guangdong Province now enjoy the dual benefit of a habitable environment, free from bad smell, and electricity to power their farms, as expressed by one of the farmers. [Read the full World Bank article "Technology Drives Sustainable Agricultural Development in China"](#).

Nutrient Management and the...



SUSTAINABLE DEVELOPMENT

GOALS

The work of the Global Partnership on Nutrient Management (GPNM) is well-aligned with the 17 [Sustainable Development Goals \(SDGs\)](#). The 17 SDGs were born out of the Rio+20 Conference through Paragraph 283 of the "[Future We Want](#)" outcome document. The SDGs were launched by the UN Secretariat through its [Division for Sustainable Development of the Department of Economic and Social Affairs \(DESA-DSD\)](#) in September 2015 in New York. Addressing the nutrient challenge and promoting good nutrient management practices are closely linked to several SDGs particularly those related to hunger ([Goal 2](#)), water ([Goal 6](#)), responsible consumption and production ([Goal 12](#)), climate change ([Goal 13](#)), oceans ([Goal 14](#)) and biodiversity ([Goal 15](#)), recognizing however the interlinkages with other goals. The GPNM will continue to work with partners and countries through UNEP-GPA to contribute to meeting the various SDG targets. Already, the GPNM, through the work of its Nutrient Use Efficiency (NUE) Task Team and science collaborators, have been proposing approaches for NUE assessment that are of relevance to evaluation of progress toward SDG targets. The GPNM paper on NUE is available [here](#).

GPNM Partners Corner

Dr. Amit Roy President and CEO of the **International Fertilizer Development Centre (IFDC)** retires on December 31, 2015 after serving for 37 years. Dr. J. Scott Angle succeeds Dr. Roy as the organization's President and CEO. The GPNM extends best wishes to Dr. Angle in his new role and looks forward to continued close cooperation with IFDC. [Read more on IFDC's website](#).

- 4th Project Steering Committee (PSC) meeting for the Global Environment Facility (GEF) – Global Nutrient Cycle (GNC) Project, 3-5 February 2016, Manila, the **Philippines**
- Planning Workshop for the GPNM Caribbean Regional Nutrient Platform, 24-26 February 2016, **Trinidad & Tobago**.
- Global Environment Facility (GEF) International Water Congress, March 2015 (dates to be confirmed), **Sri Lanka**.
- 2nd United Nations Environment Assembly (UNEA), 23-27 May 2016, UNEP Headquarters, Nairobi, **Kenya**
- 5th Sustainable Phosphorus Summit (SPS 2016), 16-20 August, 2016, Kunming, **China**.

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As we close on 2015, the GPNM Chair and Secretariat thanks all its partners and collaborators for the support over the year, and extends best wishes for the upcoming festive season and looks forward to a new year full of opportunity and success!

