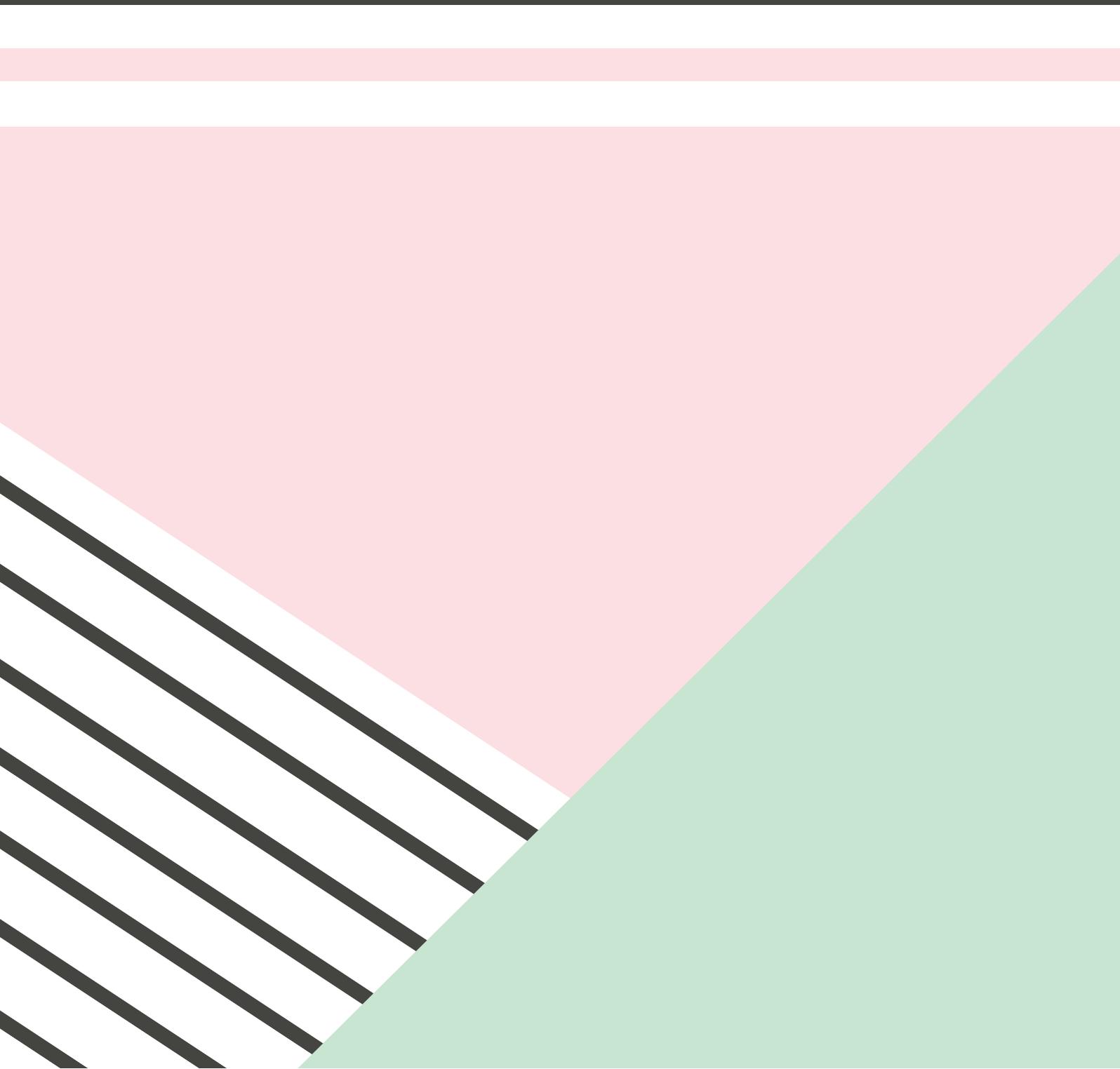
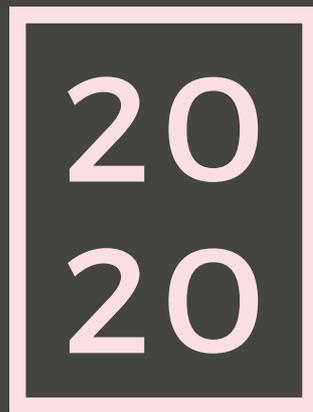


ANNUAL REPORT

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March 2020

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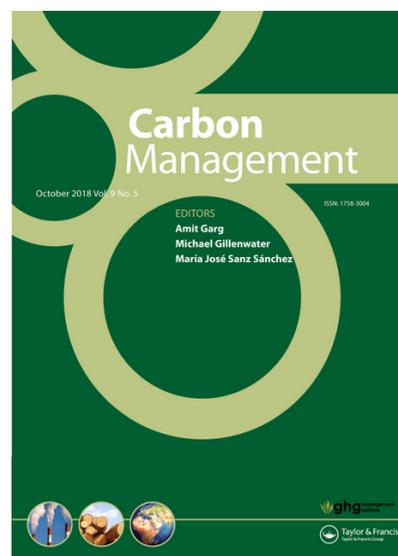
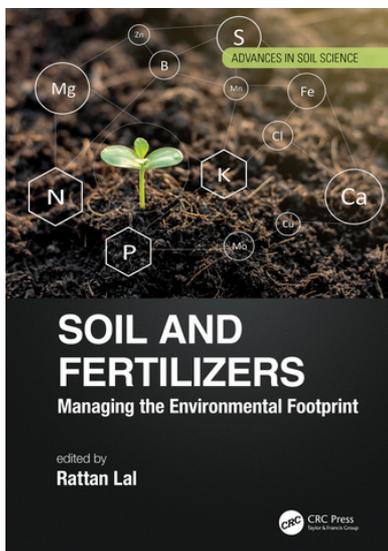
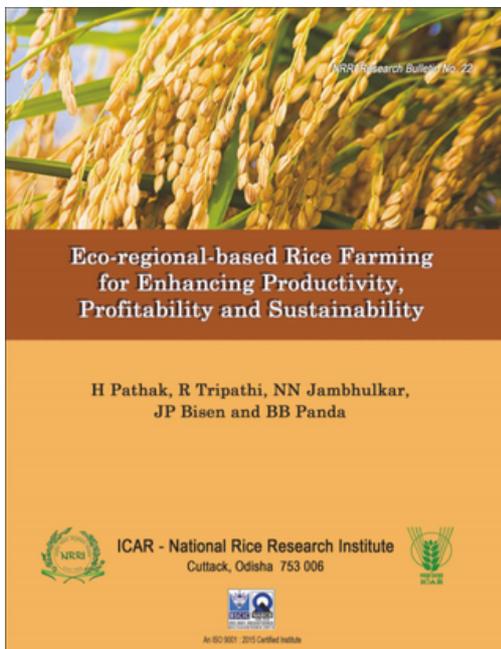
Vikramjit Singh

Sustainability Research

1. A paper titled 'A framework for nitrogen futures in the shared socioeconomic pathways' coauthored by Prof N Raghuram was published in *Global Environmental Change*, Volume 61, 2020.
2. Global warming impacts of nitrogen use in agriculture: an assessment for India since 1960 coauthored by Dr H Pathak was published in *Carbon Management* 11: 291-301; 2020.
3. Zeroing in on farm budgets or zero budget natural farming? A perspective from India authored by Prof N Raghuram was published in *UNEP Perspectives*; Issue no. 37; 2020
4. Eco-regional Rice Farming for Enhancing Productivity, Profitability and Sustainability. co authored by Dr pathak was published in *NRRI Research Bulletin No. 22*, ICAR-National Rice Research Institute, Cuttack 753006, Odisha, India, pp 28.(2020)
5. Dr Pathak and others authored 'Reducing emission of greenhouse gases from fertilizer use in India.' In *Soil and Fertilizers*. CRC Press, pp. 169-182; 2020
6. Dr Patahk et. al. published a paper 'Fertilizer and Environmental Pollution: From Problem to Solution' in the *Indian J Fert* 15(3): 262-285; 2019
7. Dr Pathak wrote 'Agricultural Research and Development: Policy and Program 93 Priorities in India' Book chapter in Shrestha RB, Bokhtiar SM, Khetarpal R and Thapa YB (eds.) *Agricultural Policy and Program Framework: Priority Areas for Research & Development in South Asia*. SAARC Agriculture Center, Dhaka, Bangladesh, and Asia-Pacific Association of Agricultural Research Institutions (APAARI), Bangkok, Thailand. p. 93-115; 2019

ACTIVITIES

Sustainability Research



Agenda development

1. Trustees Tapan Adhya and N. Raghuram attended the INMS High level Summit at UNEP, Nairobi, Kenya on 29 April, 2019 followed by the meetings of the INMS project management board and INI Steering committee.
2. SIT co-organized South Asian Workshop on Regional Nitrogen Modelling at the National Centre for Sustainable Coastal Management during 11-13 Sept., 2019 under the South Asian Nitrogen Hub project (UKRI-GCRF).
3. Profs. Tapan Adhya, N. Raghuram and Dr. Sangeeta Bansal attended the INMS South Asia workshop, 15-16 Sept. 2019 in Dhaka, Bangladesh and shared the lessons from Indian N assessment and the templates for South Asian Nitrogen Assessment.
4. Trustees Profs. Himanshu Pathak, Tapan Adhya and N. Raghuram attended the South Asian Nitrogen Hub planning workshop during 25-26 Oct. 2019 in Colombo, Sri Lanka.
5. Prof. N. Raghuram attended the 2nd UNEP-FAO-WHO Consultative meeting on the environmental and health impacts of pesticides and fertilizers, 21-22 Nov. 2019, UNEP, Geneva, Switzerland.
6. Trustees Profs. Himanshu Pathak, Tapan Adhya and N. Raghuram attended the UN Global Campaign and multi-actor dialogue on sustainable N management and Colombo Declaration meetings on 23-24 Oct. 2019 at Colombo, Sri Lanka.

ACTIVITIES

Policy Research & Advocacy

1. Prof Raghuram participated in the Panel Discussion on 'Agricultural science for land degradation neutrality' at India Pavilion, UCCD CoP14, New Delhi in Sept. 2019:



Education & Awareness

1. SIT facilitated the organization of a training course on ALPHA and DELTA Equipment for South Asian partners at the National Physical Laboratory, New Delhi during 2-6 Sept., 2019 under the South Asian Nitrogen Hub project (UKRI-GCRF).
2. Prof. N. Raghuram gave an Invited Lecture on Reactive Nitrogen Assessment, Management and the International Nitrogen Initiative at the 4th International Symposium on the nitrogen nutrition of plants, 21-25 Sept 2019 in Nanjing, China
3. Prof. N. Raghuram delivered an invited lecture on 'Investigating the phenotype and genotype for nitrogen use efficiency in rice' at the International Plant Genetics and Genomics Conference 2020, 23-24 Jan., SRM University, Chennai, India.
4. Prof. N. Raghuram gave a keynote lecture on 'Sustainable nitrogen management and biotechnological approach to improve N use efficiency' at the International Conference on Advances in Biosciences and Biotechnology (ICABB), 30 Jan-01 Feb., 2020, IIIT, NOIDA
5. Prof. Raghuram, N. delivered UGC Extension Lecture on 'Indian nitrogen assessment and improvement of crop nitrogen use efficiency for sustainable development' on 03 Feb. 2020, Jiwaji University, Gwalior.



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