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Shri. Sammilan Shetty
Naturalist, Belvai

Dr. Kalesh S
Naturalist, TNHS

Shri. Amithsen Upadheye
Wildlife Journalist

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Activity Report for Jan-June 2018

Dr Rajesh Gopinath (Key Liaison-OIKOS) was part of the team which carried out Butterfly Walk at Jarakabande Kaval Reserve Forest on 30th Dec 2017, organized by INaturewatch Foundation and facilitated by BBC.



Dr Rajesh Gopinath (Key Liaison-OIKOS) is credited to be the first individual from Bangalore and State of Karnataka for documenting the life cycle of Narrow-banded Bluebottle (Graphium teredon) butterfly from caterpillar to butterfly stage. His achievement has been recorded at IFB.



Ms Aishwarya, Ms Yagna, Ms Yakhsa (1st Sem, CV) and Dr Rajesh Gopinath (Key Liaison-OIKOS) were participants at Keetavismaya, an Exhibition on Insects organized and conducted by Department of Entomology at GKVK on 6th Jan 2018. As a fruitful outcome of their participation, a 1-day visit to the GKVK labs and museum; with a 1-day workshop on Entomology to identify and document the insects at Green Campus of BMSIT&M has been envisaged.

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Ms Chandana Swamy (1st sem, CV) has participated in the Republic Day (26th Jan 2018) Flower Show organised at the Lalbaugh Botanical Garden. The event was jointly organised by the Department Of Horticulture and Mysore horticulture society, this flower show has been one of the most awaited events in the garden city. The need for attending the show was to enhance the knowledge on diversity of flowering species.



Mr Sapnil (7th sem, CV) and Dr Rajesh Gopinath (Key Liaison-OIKOS) have participated in the Onsite Workshop on “Wildlife: Ethics in Conservation” in association with Jungle Lodges and Resorts Limited at Seethanadi Nature Camp, Hebri (Udupi District, Karnataka), on the eve of India’s Republic Day (26th Jan 2018).



Dr Rajesh Gopinath (Key liaison-OIKOS & Associate Professor, Dept. of Civil Engineering) was a Resource Person at the National Workshop on Role of Education in Science, Engineering on Environmental & Human Welfare, organised at Bidar on 10th February 2018 by Deccan Environmental Research Organisation. He had shared the dias along with Mr Raheem Khan (MLA, Bidar), and on this occasion he had delivered an invited talk on “Role & Need for Eco-Clubs in Creating Environmental Awareness”.

As a part of the Swachha Bharat Abhiyaan, "Shramdaan" a plastic cleanup drive was conducted on 16th February 2018 in the campus in collaboration with fraternity of NSS and NCC.

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Mr Abeer Mishra (Alumni-CV, BMSIT&M & Life Member-OIKOS) has successfully undertaken the Government Certificate Course in Solar Energy. He had participated in the 2 days Solar Energy Training Program organized by IDEMI Mumbai, Ministry of MSME, Govt. of INDIA at Hotel Fern Cidetal, Bengaluru on 10th and 11th Feb 2018. The course had dealt with knowledge on Implementation of National Solar Mission and the new Government's Saffron Revolution ; and was designed to educate and build the Engineers and Entrepreneurs who would meet the exponential demand of Solar Energy Industry.

On 2nd March 2018, an Environmental Sensitization Forum was organized for the benevolence of all members. The interactive session with group discussions and case-studies was engaged by Shri Ananda Padmanabha (Research Associate, BMSIT&M Innovation Centre) and Shri BVN Prashanth (IIT-M Alumni & Oracle IND Pvt Ltd). The focus delved upon "Re-Establishing the Missing Environmental Links from History" and "De-evolution of Environmental Stewardship".



The Environmental Documentary "A PLASTIC OCEAN" which depicts the peril of plastic on Marine Environment (as a consequence of human action) was screened for members on 9th March 2018. This documentary was screened to commemorate the World Water Day.

Dr Rajesh Gopinath (Key Liaison) & Mr Saprnil Sharma (CV) have participated in the "Workshop on Butterfly Gardening" at Jarkbande Kaval Forest on 11th March 2018. On this date, they were gifted with a unique opportunity to meet Shri Isaac Kehimkar, better known as India's Butterfly Man. The event was conducted by iNaturewatch Foundation (Mumbai), and post-workshop the participants carried out Floral Survey.

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On 16th March 2018, an Environmental Sensitization on **Urban Wildlife Rescues** was organized for the benevolence of all members. The session was engaged by Dr MK Shashidhar (Wildlife Rescuer, Veterinarian and Naturalist), Bengaluru. The speaker is also the Author of "The Menagerie Memories", a book penned by him based on his experience in Wildlife Rescue. The event was coordinated by Mr Madhu MC (Staff Member, Dept. of ME).



On 23rd March 2018, an Awareness session on **Dry Waste Management** was organized in collaboration with ITC WOW for the benevolence of all members. The session was engaged by Ms Lipika Lopamudra & Ms Jyothi AK (Programme Coordinators).



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Dr Rajesh Gopinath was part of the 7-member team which carried out out Dry-Season Butterfly Survey as a Voluntary Citizen Initiative at Kiliyur Falls (Yercaud) on 25th March 2018. Kiliyur Falls is a waterfall in the Shervaroyan hill range in the Eastern Ghats, Tamil nadu, India. The waters overflowing falls 91m into the Kiliyur Valley. The event was organized by WEBTM. About 25 species with DSF were sighted during the exercise. The other highlight was the spotting by Dr Rajesh Gopinath of *Lethe drypetis* (Tamil Treebrown), a Western Ghat species observed for the 1st time in Eastern Ghat as per IFB records.

Student Members Mr Sapnil Sharma, Mr Somshekhar Dasari and Ms Chandana N Sawmy (CV) have participated in the “2-days Wildlife Photography Workshop” organized by BMSIT&M Photography Club at in-campus (day-1) and Lalbaugh Botanical Garden (day-2) on 24th & 25th March 2018. Three experts from the firm Travel Unbounded led by Mr. Chandrashekar Kalyanasundaram were engaged during the exercise and the motivation for the participation was the release of Handbook of Flora and Fauna of BMSIT campus. The modules of training included Sensors, Exposure Triangle, Composition guidelines, Light, Concepts and safari photography, Nuances of wildlife filming, On Field Shooting techniques & tips, Camera RAW & JPEG, Color Gamut (Prophoto RGB, Adobe RGB, sRGB), Histogram, and RAW processing (Adobe Camera RAW).



The Environmental Documentary "ONE LIFE" which depicts the importance and need for conservation of Wildlife was screened for members on 6th April 2018. This documentary was screened to commemorate the World Earth Day. The screening was graced by Hon. Principal (President-OIKOS) and Hon. Vice-Principal (Secretary-OIKOS) as well.

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Student Members Ms. Aishwarya B, Ms Anusha P.Prabhu, Ms Meghana M.S, Ms Mahima Choudhary and Ms Rupali Niranjan; have successfully accomplished MOOC "Cities & Climate Change" offered by United Nations in the 1st week of May 2018. This is also in pursuance towards sequential for participation in "IISc-Divecha Centre for Climate Change" Quiz, tentatively scheduled in September later this year.



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OIKOS Team (Students: Bhaskar M.B., Swathivarma R, Vatsala P.M. and Arjuncanth; Guides: Vinod BR and Dr Rajesh Gopinath; Department of Civil Engineering) have won Consolation prize at Sristhi 2018 (Students Project Presentation Competition) at DSCE on 24th May 2018; for their eco-project based on determining an Optimum replacement of Coarse Aggregates with E-waste Ceramics. Their study has identified lack of policies & infrastructure, for managing e-waste ceramics. The results of the study postulate environmental benefits w.r.t. inadvertent/direct damages and costly corrective measures w.r.t. rampant quarrying for coarse aggregates, fine-dust pollution during blasting, disposal of E-waste Ceramics into TSDF, etc.



The UG project “Development of Ranking Mechanism for Public Green Spaces of Bangalore, based on Thermal Comfort Index” carried out by OIKOS Team (Students: Akash Kumar Verma, Kamran Ashraf, Shubham Bhagat and Kinshuk Morey; Guide: Dr Rajesh Gopinath; Department of Civil Engineering) was also selected for presentation at Sristhi 2018 (Students Project Presentation Competition) at DSCE on 24th May 2018. The study was an effort towards developing a new Thermal Comfort Index ‘HOTCI’ for determining the thermal comfort, so as to overcome the limitations of prevalent indices. Subsequently, this newly designed technique was employed for establishing the Thermal Comfort Index of various Public Green Spaces (PGS) scattered all across urban-rural Bengaluru. The research culminated in ranking the Public Green Spaces to be studied further to be incepted as guidelines w.r.t. Town planning. The team before participating in Sristhi, had won 3rd Prize in Open Day Project presentation competition held on 18th May 2018.



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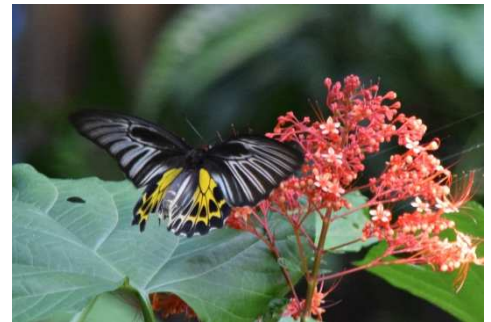
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There was a special mention of OIKOS Student Bhaskar M.B (8th sem, CV) in the News-Daily 'THE HINDU' on 4th June 2018; in connection to the societal and environmental relevance of his UG project presented during Sristhi 2018 (Students Project Presentation Competition) at DSCE on 24th May 2018. The snapshot of excerpts is attached herewith as well. The information can be found in the link

<http://www.thehindu.com/education/colleges/problem-based-innovation/article24077784.ece>

Bhaskar M.B. of BMS Institute of Technology and Management proposed a model that makes use of electronic waste as a construction material in building rigid pavements. "Replacing coarse aggregates with E-waste ceramics not only reduces the pressure on landfills but preserves natural resource and prevents water and air pollution that would result due to blasting and mining of rocks," he added.



India's largest butterfly (Southern Birdwing) has been spotted in BMSIT's Green Campus on 7th June 2018. This is a great sighting and ode to the splendor of campus bio-diversity, considering the fact that this species is usually restricted to forest and tall canopies; and rarely spotted in urban environment. *Troides minos* (Southern Birdwing) is a large and striking Swallowtail butterfly endemic to south India, with a wingspan of 140–190 mm. With this sighting, both the largest and second largest butterfly (Blue Mormon-*Papilio polymnestor*) has now been spotted in BMSIT's green campus.

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