

ICPEP-6

Scientific Programme

**Sixth International Conference
on
Plants and Environmental Pollution
27-30 November, 2018**



Organised by

International Society of Environmental Botanists

&

**CSIR-National Botanical Research Institute
Lucknow, INDIA**



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Contents

ORAL PRESENTATIONS

Tuesday, November 27, 2018

		Page No.
	Special Lecture by J.S. Singh	1
NBRI AUDITORIUM	Session S-I: Climate Change: Adaptation, Mitigation, Carbon Sequestration and Food Security	1-2
	Special Lecture by C.K. Varshney	2
HALL 1	Session S-II: Biodiversity: Prospection and Conservation	3-4
HALL 2	Session S-III: Environmental Biotechnology and Microbiology	5-6

Wednesday, November 28, 2018

NBRI AUDITORIUM	Session S-I: Climate Change: Adaptation, Mitigation, Carbon Sequestration and Food Security(Carry over)	7-8
	Session S-IV: Environmental Impact Assessment	9-10
HALL 1	Session S-V: Sub-tropical and Tropical Oaks under Global Change	11-13
HALL 2	Session S-III: Environmental Biotechnology and Microbiology (Carry over)	14-15

Thursday, November 29, 2018

NBRI AUDITORIUM	Session S-VI: Biomonitoring and Bioremediation	16-18
	Prof. H. S. Srivastava Memorial Lecture by Albert Reif	18
HALL 1	Session S-VII: Plant Responses to Environmental Pollution	19-21

Friday, November 30, 2018

NBRI AUDITORIUM	Session S-VIII: Contemporary Issues in Environment and Plant	22-23
HALL 1	Session S-II: Biodiversity: Prospection and Conservation (Carry over)	24-25

POSTER PRESENTATIONS

Tuesday, November 27, 2018

Session S-I: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security	26-27
Session S-II: Biodiversity: Prospection and Conservation	28-30
Session S-III: Environmental Biotechnology and Microbiology	31-33

Wednesday, November 28, 2018

Session S-IV: Environmental Impact Assessment	34
Session S-V: Sub-tropical and Tropical Oaks under Global Change	35
Session S-VI: Biomonitoring and Bioremediation	36-40

Thursday, November 29, 2018

Session S-VII: Plant Responses to Environmental Pollution	41-45
Session S-VIII: Contemporary Issues in Environment and Plant	46-48

ORAL SESSION

Tuesday, November 27, 2018

11.30-12.00	Chairperson: R. S. Tripathi Special Lecture on Environmental Crisis <i>J.S. Singh*</i> (India)
	NBRI AUDITORIUM
12.30-14.00	Session S-I: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security
	Chairperson: Erwin Grill Co-chairperson: Kusum Arunachalam Rapporteur: Soumit Behera
12.30-13.00	<u>Keynote Lecture</u> SI/KN-1: Challenges and Chances to Get More Crop per Drop by using Absciscic Acid Receptors <i>Erwin Grill*</i> (Germany)
13.00-13.20	<u>Lead Lecture</u> SI/L-1: Vetiver Plant Type Suitable for Disaster Management in Climate Change Regime <i>Umesh C. Lavania*</i> (India)
13.20-13.32	<u>Oral Presentations</u> SI/O-1: Adaptive Capacity of Different Norway Spruce Provenances to Lethal Drought <i>Tamalika Chakraborty*, Tomasz Czajkowski and Andreas Bolte</i> (Germany)
13.32-13.44	SI/O-2: Potential Impacts of Climate Change and Air Pollution on Plant Diversity in Nigeria: A Review <i>O.M. Mudasiru*, A.E. Ayodele and T.S. Rana</i> (India/ Nigeria)
13.44-13.56	SI/O-3: Study of Ecotypes with Respect to Productivity <i>Nisa Yusuf Babwane*</i> (India)
13.56-14.08	SI/O-4: Postharvest Training and Services Centers can Help in Food Security and Environmental Protection by Reducing the Postharvest Losses <i>Mohmad Arief Zargar*</i> (India)
14.00-15.00	Lunch Break
15.00-17.00	Session S-I: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security
	Chairperson: Bidut C. Deka Co-chairperson: Vivek Pandey Rapporteur: Farah Deebea
15.00-15.20	<u>Lead Lecture</u> SI/L-2: Climate Change: Past, Present and Future: Adaptation and Food Security <i>A.K.M. Nazrul Islam*</i> (Bangladesh)

15.20-15.40	SI/L-3: Caring Our “Green Lungs”: Nurturing and Protecting Urban Trees and Forests under the Threats of Climate Change, Urbanization, and Pollution <i>Somidh Saha*, Gerhard Sardemann, Annika Fricke, Sarah Meyer-Soylu, Colette Waitz, Oliver Parodi, Andreas Seebacher, Christine Rösch, Jürgen Kopfmüller, Axel Albrecht, Bernd Stähler and Andreas Matzarakis (Germany)</i>
15.40-15.52	<u>Oral Presentations</u> SI/O-5: Impact of Climate Change on the Potential Distribution of Himalayan Juniper (<i>Juniperus squamata</i>), an Alpine Shrub in Himalayas <i>Maroof Hamid*, Anzar A. Khuroo, Rameez Ahmad¹ and Bipin Charles (India)</i>
15.52-16.04	SI/O-6: Impact of Conservation Agriculture Practices on Productivity and Stratification of Soil Carbon in Indo-Gangetic Plains of India <i>Ajay Kumar Mishra*, Hitoshi Shinjo, Hanuman Sahay Jat, Mangi Lal Jat, Raj Kumar Jat and Shinya Funakawa (Japan/India)</i>
16.04-16.16	SI/O-7: Winged Bean (<i>Psophocarpus tetragonolobus</i> L. DC.): A Completely Edible and underutilized legume in tropical countries for food and Nutritional security <i>Ajeet Singh* and P.C. Abhilash (India)</i>
16.16-16.28	SI/O-8: Estimation of Carbon Sequestration Potential of <i>Citrus sinensis</i> in Tropical Zone of Arunachal Pradesh <i>R. Bordoloi, H. Dabi, B. Das, A. Paul and O.P. Tripathi* (India)</i>
16.28-16.40	SI/O-9: Integrated Farming Strategies for Climatic Resilient Agriculture under Rain-Fed Conditions in North West Himalayan Regions <i>Gulshan Kumar* and Hem Chander (India)</i>
16.40-16.52	SI/O-10: Detection of Mycoflora and Mycotoxin in Raw and Roasted Peanut Kernels in Bangladesh <i>Md. Maniruzzaman Khandaker*, Tasmilur Rahman, Motiur Rahim, Maksuda Begum and Tariqul Islam (Bangladesh)</i>
16.52-17.04	SI/O-11: Overstory Species Regulation of Understory Tree Physiology and Microclimate: A Case Study in Three Contrasting Tropical Deciduous Forest Associations of Terai Region in Northern India <i>Nayan Sahu</i>
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session SI: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security Session S-II: Biodiversity: Prospection and Conservation Session S-III: Environmental Biotechnology and Microbiology
18.00-18.45	Chairperson: Albert Reif Special Lecture Biodiversity: A Vital Resource for Civilization, Economic Development and Well being <i>C.K. Varshney* (India)</i>
19.30	Dinner

HALL 1 Tuesday, November 27, 2018	
12.30-14.00	Session S-II: Biodiversity: Prospection and Conservation
	Chairperson: P. Pushpangadan Co-chairperson: K.N. Nair Rapporteur: V.V. Wagh
12.30-13.00	<u>Keynote Lecture</u> SII/KN-1: Biodiversity and Traditional Knowledge in India in 21st Century <i>Padam Shree P. Pushpangadan*, V. George and T.P. Ijiru(India)</i>
13.00-13.20	<u>Lead Lecture</u> SII/L-1: Bioprospection of Traditionally used Medicinal Plants <i>N.K. Dubey* (India)</i>
13.20-13.32	<u>Oral Presentations</u> SII/O-1: Comparative Analysis of Grazing Impacts on the Plant Diversity and Composition of Tungnath and Shokhrak Alpine Rangelands in Western Himalayas <i>Anirban Roy* and B.S. Adhikari (India)</i>
13.32-13.44	SII/O-2: Quantifying Forest Cover Changes in Response to Climate Change using Machine Learning Model <i>Joity Hossain*, Sopan Patil (UK/Bangladesh)</i>
13.44-13.56	SII/O-3: Diversity of Cyanoprokaryotes from Broknes Peninsula of Larsemann Hills, East Antarctica: First Report <i>Pratibha Gupta* (India)</i>
13.56-14.02	SII/O-4: Assessment of genetic diversity using ISSR and SCoT markers in natural populations of Ormosia robusta Baker- a critically endangered species from Northeast India <i>R.K. Nilasana Singha, Ashiho A. Mao*, Deepu Vijayan and S.K. Barik</i>
14.00-15.00	Lunch Break
15.00-17.00	Session S-II: Biodiversity: Prospection and Conservation
	Chairperson: A. Arunachalam Co-chairperson: A.K. Asthana Rapporteur: Baleshwar
15.00-15.20	<u>Lead Lecture</u> SII/L-2: Conservation of Desert-Steppe Diversity in European Russia <i>Irina N. Safronova* (Russia)</i>
15.20-15.32	<u>Oral Presentations</u> SII/O-5: The Ramsar Convention – A Bid to Conserve the Wetlands of National Importance <i>Arti Garg* (India)</i>

15.32-15.44	SII/O-6: Development of DNA Barcodes for Delineating Representative Mangrove Species of West Coast India <i>Kundan Kumar* and Ankush Ashok Saddhe (India)</i>
15.44-15.56	SII/O-7: Leaf Colonising Algae- <i>Phycopeltis</i> spp. (Trentepohliaceae, Chlorophyta) from the Southern Western Ghats, Kerala, India <i>Binoy T. Thomas*, M.V. Bhagya and V.P. Thomas (India)</i>
15.56-16.08	SII/O-8: Status and Distribution Pattern of Native and Endemic Species on the Shimla Water Catchment Wildlife Sanctuary of Western Himalaya <i>Dipika Rana*, Kulraj Singh Kapoor and Anupam Bhatt (India)</i>
16..08-16.20	SII/O-9: Traditional Knowledge on the Utilization of Plant Species for Health Care <i>Jaskirat Kaur*, Rajinder Kaur and Avinash Kaur Nagpal (India)</i>
16.20-16.32	SII/O-10: Flower Traits and its Variability as an Adaptive Strategy for Augmenting Reproduction in Plants Growing in High Altitude Environments <i>Mustaqeem Ahmad*, Sanjay Kr. Uniyal, Daizy R. Batish and H.P. Singh (India)</i>
16.32-16.44	SII/O-11: Impact of Community based Forest Management (Community/Collaborative Forestry) system in the Chure region Conservation and Development of Nepal <i>Damodar Sharma* (Nepal)</i>
16.44-16.56	SII/O-12: Traditional Agroforestry for Biodiversity Conservation, Food and Nutritional Security of Mizo Community of Northeast India <i>Uttam Kumar Sahoo* and Soibam Lanabir Singh (India)</i>
16.56-17.08	SII/O-13: Medicinal Plant Diversity in Chandra Prabha Wildlife Sanctuary, Chandauli District, Uttar Pradesh <i>Nitisha Srivastava* and Achuta Nand Shukla</i>
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session SI: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security Session S-II: Biodiversity: Prospection and Conservation Session S-III: Environmental Biotechnology and Microbiology
18.00-18.45	Chairperson: Albert Reif Special Lecture Biodiversity: A Vital Resource for Civilization, Economic Development and Well being <i>C.K. Varshney* (India)</i>
19.30	Dinner

HALL 2 Tuesday, November 27, 2018	
12.30-14.00	Session S-III: Environmental Biotechnology and Microbiology
	Chairperson: Nalini Pandey Co-chairperson: Debasis Chakrabarty Rapporteur: Lalit Agrawal
12.30-12.50	<u>Lead Lecture</u> SIII/L-1: Application of beneficial rhizospheric bacteria for increasing crop productivity of saline soils <i>Naveen Kumar Arora*</i> (India)
12.50-13.02	<u>Oral Presentations</u> SIII/O-1: Cultural Studies and Biochemical Characterization of High Yielding Carotenoids and Exopolysaccharides Producing Cyanobacteria <i>O.N. Tiwari*</i> (India)
13.02-13.14	SIII/O-2: Beneficial Microbial Services in Management of Agro-Environmental Problems <i>Jay Shankar Singh*</i> (India)
13.14-13.26	SIII/O-3: Isolation, Growth and Identification of Chloropyrifos Degrading Bacteria from Agricultural Soil <i>Sonal Suman*, Satyamvadaswayamprabha and Tanuja</i> (India)
13.26-13.32	SIII/O-4: Potential of Phosphorous Solubilizing Bacteria (PSB) in Improving the Palatability of Vegetable Crops Grown in Heavy Metal Contaminated Environments <i>Sushmita Barua*, Dibyendu Adhikari, Saroj K. Barik and Nikhil K. Chrungoo</i> (India)
13.32-13.44	SIII/O-5: Production of Novel Antibacterial Polyhydroxyalkanoates (PHAs) Incorporating Medicinal Plant Extract <i>Tanushree Halder*, Sheila Azim Piarali, Pooja Basnett and Ipsita Roy</i> (Bangladesh)
14.00-15.00	Lunch Break
15.00-17.00	Session S-III: Environmental Biotechnology and Microbiology
	Chairperson: Alok Kalra Co-chairperson: Naveen Arora Rapporteur: Poonam C. Singh
15.00-15.20	<u>Lead Lecture</u> SIII/L-2: Biotechnological Approaches for Reducing Grain Arsenic Accumulation in Rice <i>Debasis Chakrabarty*</i> (India)
15.20-15.32	<u>Oral Presentations</u> SIII/O-6: Therapeutic Role of Aqueous Leaf Extract of <i>Phyllanthus niruri</i> on Plasticizer Induced Renal Toxicity in Mice Model <i>Anjali Singh*, Tanuja Singh, Ravish Kumar, Jitendra Kumar Singh</i> (India)

15.32-15.44	SIII/O-7: Pharmaceutical Product in Environment - Sources, Potential Human Health Impacts, Emergence of Antibiotic Resistance Gene (ARGs) and Current Remediation Technologies <i>Hemen Sarma*</i> (India)
15.44-15.56	SIII/O-8: Identification of Endophytic Fungal Biodiversity Isolated from Critically Endangered Endemic Medicinal Plant, <i>Artemisia amygdalina</i> Decne. of Kashmir Himalayas <i>Humeera Nisa* and Azra N. Kamili</i> (India)
15.56-16.08	SIII/O-9: Identification and Functional Analysis of Phosphate Transporters in Phosphate and Arsenate Absorption and Transport in <i>Pteris vittata</i> <i>Yue Cao*, Dan Sun, Yanshan Chen and Lena Q. Ma</i> (China)
16.08-16.20	SIII/O-10: Sustainable solutions for arsenic stress mitigation and arsenic reduction in rice <i>Sudhakar Srivastava*</i> (India)
16.20-16.32	SIII/O-11: Zinc-Funneliformis Mosseae Composite Application Attenuates Cadmium Toxicity In Pigeonpea Via Modulating Ros Generation And Enhanced Production Of Glutathione And Phytochelatins <i>Harmanjit Kaur* and Neera Garg</i> (India)
16.32-16.44	SIII/O-12: Prospectives of <i>Trichoderma</i> sp. in Amelioration of Arsenic Induced Phyto-Toxicity <i>Pratibha Tripathi*, R.D. Tripathi and Alok Kalra</i> (India)
16.44-16.56	SIII/O-13: Formulation of an Organic Potting Medium Incorporated with <i>Trichoderma</i> spp. to Enhance Growth and Disease Suppression of <i>Abelmoschus esculentus</i> <i>N. Hewavitharana*, S.D.P. Kannangara, L.R. Jayasekera and S.P. Senanayake</i> (Sri Lanka)
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session SI: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security Session S-II: Biodiversity: Prospection and Conservation Session S-III: Environmental Biotechnology and Microbiology
18.00-19.00	Chairperson: Albert Reif Special Lecture Biodiversity: A Vital Resource for Civilization, Economic Development and Well being <i>C.K. Varshney*</i> (India)
19.30	Dinner

ORAL SESSION

Wednesday, November 28, 2018

NBRI AUDITORIUM	
10.00-11.40	Session S-I: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security (Carry over)
	Chairperson: C.K. Varshney Co-chairperson: A.K.M. Nazrul Islam Rapporteur: O.P. Tripathi
10.00-10.20	<u>Lead Lecture</u> SI/L-4: Climate Change and Forest Carbon Flux Monitoring <i>S.P.S. Kushwaha (India)</i>
	<u>Oral Presentations</u>
10.20-10.32	SI/O-12: Mid-Pliocene and the Present Climate-Vegetation Equilibrium: Arctic-Asian Monsoon Teleconnections <i>Anjum Farooqui* and Salman Khan (India)</i>
10.32-10.44	SI/O-13: Intercropping Practices in Juvenile Oil Palm Plantations to Evaluate Crop Yield and Carbon Sequestration Services in Mizoram, Northeast India <i>Soibam Lanabir Singh*, Uttam Kumar Sahoo and Anudip Gogoi (India)</i>
10.44-10.56	SI/O-14: Prospects of Bamboo Resources Available in Northeast India in Boosting Socio-Economics and Mitigating Climate Change <i>L.B. Singha*, O.P. Tripathi, M.L. Khan and R.S. Tripathi (India)</i>
10.56-11.08	SI/O-15: Soil Temperature and Soil Moisture Influence on Soil Respiration Rates Under <i>Pinus roxburghii</i> Vegetation Cover <i>S. Sivaranjani* and V.P. Panwar (India)</i>
11.08-11.20	SI/O-16: Ecosystem Carbon Pool and Net Primary Production in a Tropical Matured Forest of Eastern Himalaya <i>Ratul Baishya* and Saroj Kanta Barik (India)</i>
11.20-11.32	SI/O-17: Tree Ring Analysis of <i>Pinus roxburghii</i> from FRI, Dehradun <i>Sangeeta Gupta and Tarun* (India)</i>
11.32-11.44	SI/O-18: Understanding interaction of abiotic variables on net primary productivity in Indian tropical deciduous forest <i>Soumit K. Behera*, M.D. Behera and R. Tuli (India)</i>
11.40-12.00	Tea Break

12.00-13.30	Session S-I: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security
	Chairperson: S.P.S. Kushwaha Co-chairperson: Bandana Bose Rapporteur: Preeti Tripathi
12.00-12.20	<u>Lead Lecture</u> SI/L-5: Nitrate Seed Priming (Nitropriming) vis-a-vis Climate Resilient Agriculture <i>Bandana Bose*</i> (India)
	<u>Oral Presentations</u>
12.20-12.32	SI/O-19: Litter Functional Traits And Nutrient Dynamics In Tropical Trees Species Under Elevated Co₂ Environment In India <i>Apurva Rai*, Ashutosh Kumar Singh, Nandita Singh and Nandita Ghoshal</i> (India)
12.32-12.44	SI/O-20: Tree Community Regulate Soil Multifunctionality In A Tropical Dry Forest <i>Ashutosh Kumar Singh* and Nandita Singh</i> (India)
12.44-12.56	SI/O-21: Ecosystem Services Assessment and Community Role in Conserving the Services in Tropical Deciduous Forests of Kamrup District, Assam, North-East India <i>Sangeeta Deka*, Om Prakash Tripathi and L.B. Singha</i> (India)
12.56-13.08	SI/O-22: Mainstreaming the Tropical Underutilized Legume Winged Bean [Psophocarpus Tetragonolobus (L.) DC.] for Providing Household Food and Nutrition Security <i>Vinayak Singh, Arpit Chauhan, Shafquat Fakhrah, Sagar Prasad Nayak, Kunwar Sarvendra and Chandra Sekhar Mohanty*</i>
13.08-13.20	SI/O-23: Underutilized Wild Edible Plants Sustain Climate Change as Future Food Plants in Uttar Pradesh for Their Sustainable Utilization in Commerce Trade and Market <i>Anand Prakash*</i> (India)
13.20-13.32	SI/O-24: Effect of Training Systems on Light Interception and Gas Exchange Parameters in Jamun [Syzygium cumini (L.) Skeels] <i>A.K. Trivedi*, A.K. Singh, A. Bajpai and K.K. Mishra</i> (India)
13.32-13.44	SI/O-25: Climate Change and Crop Productivity: What is at Stake? <i>K. Raja Reddy</i> (USA)
13.30-14.30	Lunch Break

14.30-17.00	Session S-IV: Environmental Impact Assessment
	Chairperson: Gordana Medunić Co-chairperson: P.A. Shirke Rapporteur: Anand Prakash
14.30-14.50	<u>Lead Lecture</u> SIV/L-1: Coal-Related Environmental Pollution has been Affecting Our Lives <i>Gordana Medunić* (Croatia)</i>
14.50-15.10	SIV/L-2: Some Insights into Strategies for Size Fractionated phytomonitoring of Airborne Particulate Matter (PM) and Associated Metals <i>Sudhir Kumar Pandey* (India)</i>
15.10-15.22	<u>Oral Presentations</u> SIV/O-1: Impact Assessment Of Conservation Agriculture Systems On Environment, Rural Community And Economy Of Farmers In Indogangetic Plains Of India <i>Anjali*, Ajay Kumar Mishra and V. Venkat Ramanan (India/Japan)</i>
15.22-15.34	SIV/O-2: Prioritizing Invasive Aquatic Macrophytes using a Comprehensive Risk Assessment (CRA) Approach for their Control and Management in Tropical Floodplains <i>Tapati Das*, Nami Prasad and Dibyendu Adhikari (India)</i>
15.34-15.46	SIV/O-3: Effect of Religious Rituals on the Water Quality of Jaipur Ghat of Pushkar Sarovar (Rajasthan) <i>Anita Sharma* (India)</i>
15.46-15.58	SIV/O-4: Assessment of Soil Pollution using Multivariate Techniques and Indexing Approach <i>Vinod Kumar* (India)</i>
15.58-16.10	SIV/O-5: Potential Distribution and Invasion Risk Assessment of <i>Parthenium hysterophorus</i> in India under Climate Change <i>Rameez Ahmad*, Anzar A. Khuroo, Maroof Hamid, Bipin Charles and Zubair A. Rather (India)</i>
16.10-16.22	SIV/O-6: ICT Promotes Environmental Awareness through ENVIS activities under a National Programs <i>Sunil Tripathi*, Diwakar Saini, Vineeta Yadav, Amrita Awasthi and Pankaj Kumar Srivastava (India)</i>
16.22-16.34	SIV/O-7: Open Cast Mining And Impact Of Dust On Roadside Plant Species At Jhansi- Allhabad National Highway <i>Priyanka Singh and Amit Pal (India)</i>
16.34-16.46	SIV/O-8: Determination of Geochemical Properties and Temporal Variation of Ground Water in Kanchipuram District, Tamilnadu, India <i>A. Chandrasekaran* and R. Ravisankar (India)</i>

16.46-16.58	SIV/O-9: Comparative Evaluation of Hydrogeochemical Processes and Chemometrics of the Groundwater in Vijaypur Block of Samba District and Bhaderwah Tehsil of Doda District, J&K <i>Anjali Bala*, Pankaj Mehta and Anu Ramotra (India)</i>
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session S-IV: Environmental Impact Assessment Session S-V: Sub-tropical and Tropical Oaks under Global Change Session S-VI: Biomonitoring and Bioremediation
18.30-20.00	Cultural Programme
20.00	Dinner

HALL 1 Wednesday, November 28, 2018	
10.00-11.30	Session S-V: Sub-tropical and Tropical Oaks under Global Change
	Chairperson: Prof. R.S. Tripathi Co-chairperson: Ken Oyama Rapporteur: Sabyasachi Dasgupta
10.00-10.10	Opening Remark: <i>S.K. Barik</i> (India)
10.10-10.20	Brief introduction to the OAK session: <i>Somidh Saha</i> (Germany)
10.20-10.50	<u>Keynote Lecture</u> SV/KN-1: Regeneration Ecology of Oaks <i>Albert Reif*</i> (Germany)
10.50-11.20	SV/KN-2: Managing Regeneration Potential to Sustain Oak Forests in North America <i>Daniel C. Dey*</i> (USA)
11.20-11.35	<u>Oral Presentations</u> SV/O-1: Assessing Restoration Potential of Fragmented and Degraded Fagaceae Forests in Meghalaya, Northeast India <i>Prem Prakash Singh*, Anna Dermann, Florian Dermann, Dibeyndu Adhikari, Tamalika Chakraborty, Purna B. Gurung, Saroj Kanta Barik, Jürgen Bauhus and Somidh Saha</i> (India)
11.30-12.00	Tea Break
12.00-13.30	Session S-V: Sub-tropical and Tropical Oaks under Global Change
	Chairperson: Somidh Saha Co-chairperson: M.L. Khan Rapporteur: U.K. Sahoo
	<u>Oral Presentations</u>
12.00-12.15	SV/O-2: Assessing the Impacts of Climate Vulnerability on <i>Quercus</i> Habitats in Central Himalayas: Future Implications <i>Shalini Dhyani* and Rakesh Kadaverugu</i> (India)
12.15-12.30	SV/O-3: Status of Oaks and related species for management and conservation strategies <i>Yangchenla Bhutia*</i> (India)
12.30-12.45	SV/O-4: Effect of Microsite Characteristics on Seed Germination, and Survival and Growth of Seedlings of Two Species of <i>Quercus</i> Growing on the Hills of Northeast India <i>M.L. Khan* and R.S. Tripathi</i> (India)
12.45-13.00	SV/O-5: A Taxonomic Study of <i>Lithocarpus</i> (Fagaceae) in Vietnam based on Molecular Phylogeny and Morphological Observations <i>Nguyen Van Ngoc*, Hoang Thi Binh, Shuichiro Tagane, Hironori Toyama, Keiko</i>

	<i>Mase, Chika Mitsuyuki, Joeri Sergej Strijk, Yoshihisa Suyama and Tetsukazu Yahara (Vietnam)</i>
13.00-13.15	SV/O-6: Forecasting Climate Change Impact on Distribution Range of Fagaceae Members in Meghalaya using open Source Data <i>Dibyendu Adhikari*, Prem Prakash Singh, Raghuvar Tiwary and Saroj Kanta Barik (India)</i>
13.15-13.30	SV/O-7: Temperate Broadleaved European Beech (<i>Fagus Sylvatica</i> L.) Trees are Showing High Ecological Plasticity under Multiple Drought Events <i>Tamalika Chakraborty*, Somidh Saha, Andreas Matzarakis and Albert Reif (Germany)</i>
13.30-14.30	Lunch Break
14.30-17.00	Session S-V: Sub-tropical and Tropical Oaks under Global Change
	Chairperson: Albert Reif Co-chairperson: S.N. Jena Rapporteur: Dibyendu Adhikari
14.30-14.50	<u>Keynote Lecture</u> SV/KN-3: Genetic Diversity, Hybridization and Conservation of Mexican Oaks (Fagaceae: <i>Quercus</i>) <i>Ken Oyama* (Mexico)</i>
14.50-15.05	<u>Oral Presentations</u> SV/O-8: Mapping of Ecosystem Services as Sustainable Management Tool – A Case from Oak Forests in Western Himalayas, India <i>Sabyasachi Dasgupta*, Subhasis Mahato and N.P. Todaria (India)</i>
15.05-15.20	SV/O-9: A Review of Forest Decline with a Special Focus on the Oak Forests in Iran <i>Elham Shafeian*, Fabian Ewald Fassnacht and Hooman Latifi (Germany)</i>
15.20-15.35	SV/O-10: ITS and cpDNA Loci based Molecular Phylogeny of Fagaceae Failed to Resolve the Backbone Topology <i>Babita Joshi*, Gopal Ji Tiwari, Kiran, Prem Singh, Dibyendu Adhikari, Satya Narayan Jena and Saroj K. Barik (India)</i>
15.35-15.50	SV/O-11: Oak Decline and the Changing Face of the Central Himalayan Forests <i>Rajesh Thadani, Anvita Pandey* and Vishal Singh (India)</i>
15.50-16.05	SV/O-12: Nitrogen Resorption Efficiency of Two Oak Species in a Montane Subtropical Forest of Meghalaya <i>Namita Thapa* and Saroj Kanta Barik (India)</i>
16.05-16.20	SV/O-13: How Important are Oaks and other Fagaceae Members in Undisturbed Sacred Subtropical Wethill Broad Leaved Forests of Meghalaya, India? <i>S. Kharbhi*, R.R. Gogoi, B.R. Suchiang, I.M. Nonghuloo, K. Upadhaya and S.K. Barik (India)</i>

16.20-16.35	SV/O-14: Estimating Carbon Stock in <i>Lithocarpus dealbatus</i> by Developing Species-Specific Allometric Models <i>Rashmi R. Gogoi*</i> , <i>K. Upadhaya</i> and <i>S.K. Barik</i> (India)
16.35-16.50	SV/O-15: Conservation of Oaks: From the Perspective of a Wood Anatomist <i>Prachi Gupta¹*</i> and <i>Sangeeta Gupta²</i>
17.00-17.45	Panel Discussion Chairman: Daniel C. Dey Penelist: Albert Reif R.S. Tripathi S.K. Barik Somidh Saha
	Tea Break
17.45-18.30	POSTER SESSION Session S-IV: Environmental Impact Assessment Session S-V: Sub-tropical and Tropical Oaks under Global Change Session S-VI: Biomonitoring and Bioremediation
18.30-20.00	Cultural Programme
20.00	Dinner

HALL 2 Wednesday, November 28, 2018	
10.00-11.30	Session S-III: Environmental Biotechnology and Microbiology (Carry over)
	Chairperson: Alok Krishna Sinha Co-chairperson: N. Manickam Rapporteur: C.S. Mohanty
10.00-10.30	<u>Lead Lecture</u> SIII/KN-1: Regulation of Submergence Tolerance in Rice by a Mitogen Activated Protein Kinase <i>Alok Krishna Sinha* (India)</i>
10.30-10.42	<u>Oral Presentations</u> SIII/O-14: Does Conversion of Forest to Cropland is a Sufficient Cause to Make Over Soil Microbes? An Important Discussion <i>Meenakshi Kushwaha*, Naina Marwa, Vivek Pandey, Nandita Singh (India)</i>
10.42-10.54	SIII/O-15: Reduced Arsenic Accumulation in Rice Grain by Heterologous Expression of Phytochelatin Synthase of <i>Ceratophyllum demersum</i>, <i>CdPCS1</i> <i>Manju Shri*, Rudra Deo Tripathi, Prabodh Kumar Trivedi and Debasis Chakrabarty (India)</i>
10.54-11.06	SIII/O-16: Selenium Linked Arsenic Tolerance Entails Induction of Phytochelatins and Amino Acids and Promotes Reduction of Arsenic Phytotoxicity and Uptake in Rice <i>Preeti Tripathi*, Reshu Chauhan, Surabhi Awasthi and Rudra Deo Tripathi (India)</i>
11.06-11.12	SIII/O-17: Phylogenetic Analysis Of Hkt Homologs In Grasses Identified Conserved Domains And Potential Functional Sites <i>P.R. Weerasinghe*, M.H.M.M.N. Mapa and H.A.C.K. Ariyaratna (Sri Lanka)</i>
11.30-12.00	Tea Break
12.00-13.30	Session S-III: Environmental Biotechnology and Microbiology
	Chairperson: N.K. Dubey Co-chairperson: Ram Chandra Rapporteur: Poonam C. Singh
12.00-12.20	<u>Lead Lecture</u> SIII/L-3: Heavy Metals Phytoextraction Potential of Native Plants and their Histological Observation Growing on Stabilized Distillery Sludge: A Prospective Tool for in situ Phytoremediation of Hazardous Industrial Waste <i>Ram Chandra* (India)</i>
12.20-12.32	<u>Oral Presentation</u> SIII/O-18: Intellectual Property Rights and Biotechnology Issues <i>Saurabh Yadav* (India)</i>

12.32-12.44	SIII/O-19: Analysis Of Hkthomologs In Grassesby Comparative Genomics And Protein Structure Prediction <i>M.H.M.M.N. Mapa*, P.R. Weerasinghe and H.A.C.K. Ariyaratna</i> (Sri Lanka)
12.44-12.56	SIII/O-20: Molecular Basis of how Plants can be Used as a Potential Detector System to Analyse Environmental Hazards <i>Jasmine M. Shah*, J. Sijila and T.J. Joyous</i> (India)
12.56-13.08	SIII/O-21: Effect of Fly Ash on Growth of Cellulolytic Bacteria <i>M.S. Dhanya* and P. Ashoka Chakravarthy</i> (India)
13.08-13.20	SIII/O-22: Silicon Fertilization and Arbuscular Mycorrhizal Fungi Alleviate Salinity by Regulating Proline and Carbohydrate Metabolism in <i>Cicer arietinum</i> L. <i>Purnima Bhandari* and Neera Garg</i> (India)
13.20-13.32	SIII/O-23: Study on Behaviour of <i>Tylophora indica</i> in vivo and in vitro with Special Reference to its Fungicidal Activity <i>Suman Das*, Shibasis Mukharjee, Alok Hazra and Maitreyi Banerjee</i> (India)
13.30-14.30	Lunch Break

ORAL SESSION
Thursday, November 29, 2018

NBRI AUDITORIUM	
10.00-11.40	Session S-VI: Biomonitoring and Bioremediation
	Chairperson: Om Parkash Dhankher Co-chairperson: Nandita Singh Rapporteur: Sanjay Dwivedi
10.00-10.30	<u>Keynote Lecture</u> SVI/KN-1: Phytoremediation of Arsenic-Contaminated Soils: Molecular Mechanisms and Field Application <i>Lena Q. Ma*</i>
10.30-10.42	<u>Oral Presentations</u> SVI/O-1: Speciation and Compartmentation of Arsenic in Plants and Mechanism of its Sub-lethal Toxicity <i>Seema Mishra, Sanjay Dwivedi, Rudra D. Tripathi, Gerald Falkenberg, Jürgen Mattusch and Hendrik Küpper (India/Germany)</i>
10.42-10.54	SVI/O-2: A Study of Heavy Metal Pollution from Motor Vehicle Emissions using Human Hair as Biomarkers <i>Krishna Mishra (India)</i>
10.54-11.06	SVI/O-3: Bioremediation Potential of Macrophytes from Jakkur Wetland, Bangalore <i>P. Sudarshan*, M.K. Mahesh and T.V. Ramachandra (India)</i>
11.06-11.18	SVI/O-4: Two-Pronged Approach to Ascertain Cadmium Phytoremediation Ability of Pistia stratiotes: Biochemical and SEM-EDAX Analysis along with Catfish Bioassay using <i>Clarias batrachus</i> <i>Sunayana Goswami and Suchismita Das* (India)</i>
11.18-11.30	SVI/O-5: Role of Grasses in Monitoring Global Warming and its Mitigation through Carbon Sequestration <i>Amarjit Singh Soodan* (India)</i>
11.30-11.42	SVI/O-6: Rhizo-Remediation of Hazardous Waste: A Sustainable Approach for Environment Clean-up <i>Bhawana Pathak* (India)</i>
11.40-12.00	Tea Break

12.00-13.30	Session S-VI: Biomonitoring and Bioremediation
	Chairperson: Lena Q. Ma Co-chairperson: R.D. Tripathi Rapporteur: Seema Mishra
12.00-12.30	<u>Keynote Lecture</u> SVI/KN-2: Glutathione Homeostasis Plays Critical Role in Protecting Plants from Abiotic Stresses and in Heavy Metals Phytoremediation <i>Om Parkash Dhankher*, Gurpal Singh, Ahmed G. Meselhy and Bibin Paulose (USA)</i>
12.30-13.42	<u>Oral Presentations</u> SVI/O-7:A 4 Stage Setup for Phytoremediation of Arsenic Contaminated Water with <i>Phragmites australis</i> and <i>Vetiveria zizanioides</i> <i>Ashish Praveen* and Nandita Singh (India)</i>
12.42-12.54	SVI/O-8: Physiological and Biochemical Assessment of Five Varieties of <i>Helianthus annuus</i> for Phytoextraction of Lead <i>Jyoti Mathur* (India)</i>
12.54-13.06	SVI/O-9: Physico-Chemical and Biological Characteristics of Godavari River Water at SripadaYellampalli Project, Mancherla Dist., Telangana, India <i>B. Lalitha Kumari* (India)</i>
13.06-13.18	SVI/O-10: Characterization of Iron Infused Activated Carbon Developed from <i>Citrus limetta</i> Biomass: An Application for Theremoval of Fluoride from Aqueous Solution <i>Lata Verma*, Mohd. Ibrahim and Jiwan Singh (India)</i>
13.18-13.32	SVI/O-11: Monitoring and Assessment of Pollution Load in Terms of Heavy Metals in Surface Water of River Ganga around Kanpur: A Study for Suitability of this Water for Different Utilities <i>Vandana Singh*, Nem Kumar Nagpoore, Jai Chand and Alok Lehri (India)</i>
13.30-14.30	Lunch Break
14.30-17.00	Session S-VI: Biomonitoring and Bioremediation
	Chairperson: Umesh C. Lavania Co-chairperson: Pankaj Srivastava Rapporteur: Rajesh Bajpai
14.30-14.50	<u>Lead Lecture</u> SVI/L-1: Economic valuation of Ecosystem Ecological Services <i>Mir Mehrdad Mirsanjari* (Iran)</i>
14.50-15.02	<u>Oral Presentations</u> SVI/O-12: Role of Bacteria in Remediation of Indoor Pollution with the Help of <i>Aglaonema commutatum</i>Schott. <i>Seemaa Ghate* (India)</i>
15.02-15.14	SVI/O-13: Phytoextraction of Lead from Soil using Biodegradable Chelant (Nitrilotriacetic Acid) by <i>Coronopus didymus</i> <i>Riya Raina*, Harminder Pal Singh and Daizy R. Batish (India)</i>

15.14-15.26	SVI/O-14: Silicon: A Source of Mitigator to Heavy Metal (Arsenic) Stress in Rice Grains <i>Vinod Goyal*, Sanjay Dwivedi, Seema Mishra, Neeru Jain and Rudra Deo Tripathi (India)</i>
15.26-15.38	SVI/O-15: Assessment on Environmental Issues Related to Water Pollution Associated with Textile Processing Industries Indehiwalla-Mt. Lavinia and Moratuwa Municipal Council Areas in Sri Lanka <i>M.R. Namalie* and T.K. Weerasinghe (Sri Lanka)</i>
15.38-15.50	SVI/O-16: Heavy Metal and Prospects of Phytoremediation in India <i>Jamshed Zaidi and Amit Pal* (India)</i>
15.50-16.02	SVI/O-17: Assessment of Lukha River (Wah Lukha) with Emphasis on the Coloration Phenomena during Winter Months <i>Vivek Kumar* (India)</i>
16.02-16.14	SVI/O-18: River Water Quality in Relation to Alluvial Deposition and Ecological Approach <i>Brajesh K. Dwivedi* (India)</i>
16.14-16.26	SVI/O-19: Arsenic Hazard Assessment in Groundwater-Soil-Rice System in Two Villages of Bengal Delta Basin, West Bengal, India <i>Munish Kumar Upadhyay*, Arnab Majumdar, Anil Barla, Sutapa Bose and Sudhakar Srivastava (India)</i>
16.26-16.38	SVI/O-20: Relative Effectiveness of Different Iron Complexes in Functional Iron Availability in the Rapeseed Plants <i>Rajesh K. Tewari* (India)</i>
16.38-16.50	SVI/O-21: Industrial Water Pollution in Bangladesh and its Mitigation using the Catalyst under Ambient Condition <i>Md. Kamal Hossain*, Umme Sarmeen Akhtar, Mohammad Moniruzzaman (Bangladesh)</i>
16.50-17.02	SVI/O-22: A sustainable phytoremediation coupled lipid production efficiency in green algae under point source contamination <i>Atul Kumar Upadhyay*, Ranjan Singh and D P Singh (India)</i>
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session S-VII: Plant Responses to Environmental Pollution Session S-VIII: Contemporary Issues in Environment and Plant
18.00-18.45	Chairperson: R.P. Singh Prof. H.S. Srivastava Memorial Lecture by Albert Reif (Germany)
20.00	Dinner

HALL 1 Thursday, November 29, 2018	
10.00-11.30	Session S-VII: Plant Responses to Environmental Pollution
	Chairperson: P.V. Sane Co-chairperson: S. K. Tiwari Rapporteur: Anamika Tripathi
10.00-10.20	<u>Lead Lecture</u> SVII/L-1: Environmental Mercury Stress-Adaptation in Selected Macrophytes - Crosstalk on Chemical and Biological Mechanisms <i>Naser A. Anjum*</i> (Portugal/India)
10.20-10.32	<u>Oral Presentations</u> SVII/O-1: Nitric Oxide Exposure Impacts on Morphology and Auxin Transport of <i>Oryza sativa</i> under Arsenic Stress <i>Afsana Praveen* and Meetu Gupta</i> (India)
10.32-10.44	SVII/O-2: Differential Response of Indica Rice Varieties using Biochemical and Molecular Approaches under Arsenic Stress <i>Medha Panthri* and Meetu Gupta</i> (India)
10.44-10.56	SVII/O-3: Effect of Vehicular Pollution on Pollen Grains of some Roadside Plants: An Overview <i>Mandeep Kaur* and Avinash Kaur Nagpal</i> (India)
10.56-11.06	SVII/O-4: Distributional Pattern of Diatom Assemblages in the Ganga River: Impact of Nutrient Enrichment and Limitation <i>Amita Yadav*, Jitendra Pandey and Usha Pandey</i> (India)
11.06-11.18	SVII/O-5: Effect of Marble Slurry Dust on the Proline Content of <i>Callistemon lanceolata</i> and <i>Albizia lebbec</i> Trees <i>Vibha Khanna*</i> (India)
11.18-11.30	SVII/O-6: Fly Ash-Induced Thiol Synthesis And metabolic Adaptation in Fern <i>Ampelopteris prolifer</i> (Retz.) Copel. <i>Alka Kumari* and Ashu Gulati</i> (India)
11.30-12.00	Tea Break
12.00-13.30	Session S-VII: Plant Responses to Environmental Pollution
	Chairperson: U.N. Dwivedi Co-chairperson: P.K. Trivedi Rapporteur: Smita Kumar
12.00-12.12	<u>Lead Lecture</u> SVII/L-2: Emerging Role of Silicon, Salicylic Acid and Arbuscular Mycorrhizal Fungi in Alleviating Abiotic Stress in Legumes <i>Neera Garg*</i> (India)

	<u>Oral Presentations</u>
12.12-12.24	SVII/O-7: Effects of the Desert Barriers in the Genetic Structure of Laperrine's Olive, from the Central Saharan Mountains <i>Djamel Baali-Cherif*, Guillaume Besnard, Fabien Anthelme and Med-Salah Abdellaoui (Algeria/ France, Nigeria)</i>
12.24-12.36	SVII/O-8: Silicon-Induced Antioxidant Defense, Methylglyoxal Detoxification and Metalchelation Works Coordinately in Alleviating Nickel Toxicity in <i>Oryza sativa</i> L. <i>Mirza Hasanuzzaman*, Md. Mahabub Alam, Kamrun Nahar, Sayed Mohammad Mohsin, M.H.M. Borhannuddin Bhuyan, Khursheda Parvin and Masayuki Fujita (Bangladesh/ Japan)</i>
12.36-12.48	SVII/O-9: Status And Response Of <i>Nerium Indicum</i> To Air Pollution In Kathmandu Valley, Nepal <i>Sushila Devi Shrestha*, Anjana Devkota, and Pramod Kumar Jha (Nepal)</i>
12.48-13.00	SVII/O-10: Nitric Oxide Alleviates Iron and Chromium Toxicity by Reducing Growth Inhibition and Oxidative Damage in Wheat (<i>Triticum aestivum</i> L.) Seedlings <i>Laxmi Verma*, Zeenat Parveen and Nalini Pandey (India)</i>
13.00-13.12	SVII/O-11: Nanomaterial in Agri Environment : A new threat to crop plants <i>Poornima Vajpayee (India)</i>
13.30-14.30	Lunch Break
14.30-16.30	Session S-VII: Plant Responses to Environmental Pollution
	Chairperson : Pawan Agarwal Co-chairperson: Samir V. Sawant Rapporteur: P.K. Singh
	<u>Oral Presentations</u>
14.30-14.42	SVII/O-12: Transcriptional Regulation Of Rice Sulphate Transporter Gene Family And Functional Characterisation Of Arsenic-Responsive High Affinity Sulphate Transporter, <i>OsSUL1;1</i> <i>Smita Kumar*, Ria Khare, Debasis Chakrabarty, R. D. Tripathi, Prabodh Kumar Trivedi (Australia)</i>
14.42-14.54	SVII/O-13: Urban Dustfall: Affecting Foliar Surface And Biochemical Constituents Of Economically Important Plant Species Of Delhi Region, India <i>Gyan Prakash Gupta* and U.C. Kulshrestha (India)</i>
14.54-15.06	SVII/O-14: Study on the Effect of UV-B on Two Different Ferns <i>Niranjan Mishra*, Babita Kumari, Sandip Kumar Behera (India)</i>
15.06-15.18	SVII/O-15: Ameliorative Effect of Salicylic Acid on Growth and Seedling Establishment of Corn (<i>Zea mays</i> L.) Grown under NaCl Stress <i>P.K. Singh* (India)</i>

15.18-15.30	SVII/O-16: Ganga Water Pollution: A Potential Health Threat to Inhabitants of Ganga Basin <i>Sanjay Dwivedi*, Seema Mishra and Rudra Deo Tripathi (India)</i>
15.30-15.42	SVII/O-17: Ultrastructure Modification of Arsenic Stressed Rice Cultivars under Altered Irrigation Practices in Bengal Delta Basin <i>Arnab Majumdar*, Munish Kumar Upadhyay, Anil Barla, Sudhakar Srivastava and Sutapa Bose (India)</i>
15.42-15.54	SVII/O-18: Drought-responsive reversible and irreversible changes in the cytoplasmic proteins: comparative proteomics of rice genotypes with contrasting tolerance <i>Lalit Agrawal*, Shashank Kumar Mishra, Swati Gupta, Puneet Singh Chauhan, Chandra Shekhar Nautiyal (India)</i>
15.54-16.06	SVII/O-19: γ-Aminobutyric Acid Modulates Fatty Acids, Stress Responsive Amino Acids and Polyamines Biosynthesis in <i>Oryza sativa</i> L. to Ameliorate Arsenite Toxicity <i>Navin Kumar*, Saripella Srikrishna and Shekhar Mallick (India)</i>
16.00-16.18	SVII/O-20: Amelioration of Salt Stress by Salicylic Acid and Arbuscular Mycorrhizal Fungi via Strengthened Antioxidant Defense Mechanisms in Chickpea <i>Amrit Bharti* and Neera Garg (India)</i>
17.00-17.10	Tea Break
17.00-18.00	POSTER SESSION Session S-VII: Plant Responses to Environmental Pollution Session S-VIII: Contemporary Issues in Environment and Plant
18.00-18.45	Chairperson: R.P. Singh Prof. H.S. Srivastava Memorial Lecture by Albert Reif (Germany)
20.00	Dinner

ORAL SESSION

Friday, November 30, 2018

NBRI AUDITORIUM	
10.00-11.40	Session S-VIII: Contemporary Issues in Environment and Plant
	Chairperson: Khozirah Shaari Co-chairperson: Sharad Srivastava Rapporteur: Ratna Chaturvedi
10.00-10.20	<u>Lead Lecture</u> SVIII/L-1: Pharmacological and Biological studies in selected endemic Pandanaceae species grown in the Philippines <i>G.J. Alejandra, J. Apostol, P. Bangcaya, A. Castillo, R.R. Rondilla, C. Tan, M. Tan and M.G. Nanato*</i> (Phillipines)
10.20-10.32	<u>Oral Presentations</u> SVIII/O-1: Assessment of Protein Content and Antioxidant Activity in the Waste Pupae of Mulberry, Tasar and Muga Silkworm <i>Ashmita Ghosh*, Mrinal Ray, Debnirmalya Gangopadhyay, Suchisree Jha and Palash Mandal</i> (India)
10.32-10.44	SVIII/O-2: Product Development and Sensory Evaluation of Value Added Food Products made by Incorporating Dried <i>Murraya ioenigii</i> (Curry Leaf) Powder <i>Mukta Singh* and Khushaboo Prajapati</i> (India)
10.44-10.56	SVIII/O-3: Conservation of Herpetofauna in Cachar District of Assam: Challenges and Opportunities <i>Sibam Sarkar and Mithra Dey*</i> (India)
10.56-11.06	SVIII/O-4: Plant Disease Diagnosis: Current and Prospective Methods and Challenges <i>Sunil Kumar Srivastava* and N.K. Singh</i> (India)
11.06-11.18	SVIII/O-5: Biological Activity of Rare Sugar Ester and their Potential Role as Environmental-Friendly Organic Growth Regulator <i>Md. Tazul Islam Chowdhury* and Yasuhiro Kawanami</i> (Bangladesh/Japan)
11.18-11.30	SVIII/O-6: Vermicomposting: Technology towards Green Revolution <i>Bhawna Sharma*</i> (India)
11.40-12.00	Tea Break
12.00-14.00	Session S-VIII: Contemporary Issues in Environment and Plant
	Chairperson: M.G. Nanato Co-chairperson: P.K. Singh Rapporteur: Jyoti Prakash
12.00-12.30	<u>Keynote Lecture</u> SVIII/KN-1: Water Conservation Models for the Buildings in Indian Cities <i>Jal Guru Sri Mahendraa Modi</i> (India)

12.30-12.50	<u>Lead Lecture</u> SVIII/L-2: A systems biology approach in research on medicinal plants: from Phytochemistry to metabolics <i>Khazirah Shaari</i> (Malaysia)
12.50-13.02	<u>Oral Presentations</u> SVIII/O-7: Legal Perspectives Of Control On Air Pollution In Delhi And Other Metro Cities <i>Deepika Pandey*</i> (India)
13.02-13.14	SVIII/O-8: To Study the Air Pollution Caused by Informal E-waste Burning and its Effect on Human Health <i>Anju Chauhan*, Charu Gangwar, Atul Kumar, Juhi Khan, Ajay Kumar, Garima Varshney and Anamika Tripathi</i> (India)
13.14-13.26	SVIII/O-9: Stable Organic Matter Yield Index of Biochar Prepared from Yard-Waste <i>Sangeeta Mukhopadhyay* and R.E. Masto</i> (India)
13.26-13.38	SVIII/O-10: Characterization and Adsorptive Removal of Phenol Red from the Water using Green Synthesized Iron Nano Particles <i>Shalu Rawat*, Jiwan Singh, Samiksha Sikarwar and B.C. Yadav</i> (India)
13.38-13.50	SVIII/O-11: Effect of Ionizing Radiation on Human Health <i>Ashish Chaturvedi*</i> (India)
13.50-14.02	SVIII/O-12: Impact of Healthcare Waste Management on Environmental Health Disaster <i>Salil Chaturvedi, Marisha Rai and Rachna Chaturvedi*</i> (India)
14.00-15.00	Lunch Break
15.00-17.00	Validictory Function

HALL 1 Friday, November 30, 2018	
10.00-11.40	Session S-II: Biodiversity: Prospection and Conservation (Carry over)
	Chairperson: A.A. Mao Co-chairperson: T.S. Rana Rapporteur: K.K. Rawat <u>Oral Presentations</u>
10.00-10.12	SII/O-13:History of <i>Bougainvillea</i>: A Long Journey from Brazil to India <i>S.C. Sharma* (India)</i>
10.12-10.24	SII/O-14: Phylogeography and population genetics of common reed (<i>Phragmites australis</i>) an obnoxious aquatic invader in India with comparison of native populations in Canada <i>Gowher A. Wani*, Manzoor A. Shah, Zafar A. Reshi, Marie-Ève Beaulieu, Alain R. Atangana and Damase P. Khasa (India/Canada)</i>
10.24-10.36	SII/O-15: Species Diversity and Carbon Stock in Three Temperate Forest Types of Garhwal Himalayas, Uttarakhand, India <i>Siddhartha Kaushal* and Ratul Baishya (India)</i>
10.36-10.48	SII/O-16: Environmental Determinants of Plant Richness in the Eastern Himalaya <i>Rajendra Mohan Panda* and Mukunda Dev Behera (India)</i>
10.48-11.00	SII/O-17: Assessment of the Diversity of Invasive Alien Plants and its Role in Ethnomedicine in Western Madhya Pradesh, India <i>Vijay Vishnu Wagh* (India)</i>
11.40-12.00	Tea Break
12.00-13.30	Session S-II: Biodiversity: Prospection and Conservation
	Chairperson: D.K. Upreti Co-chairperson: Seshu Lavania Rapporteur: K.K. Rawat <u>Oral Presentations</u>
12.00-12.12	SII/O-18:Role of the Plants Used in the Traditional Medicine <i>Mukul Kumar* (India)</i>
12.12-12.24	SII/O-19: Documentation of Pollinator Floral Calendar: A Case Study From Kashmir Himalayas <i>Zubair A. Rather*, Anzar A. Khuroo, Shoukat Ara, Rameez Ahmad and Maroof Hamid (India)</i>

12.24-12.36	SII/O-21: <i>Aconitum duclouxii</i> H. Lév. (Ranunculaceae): A New Record for the Indian Flora <i>Danish Husain*</i> , <i>Priyanka Agnihotri</i> and <i>Tariq Husain (India)</i>
12.36-12.48	SII/O-22: Plant diversity characterization using satellite remote sensing <i>S.P.S. Kushwaha*</i> (India)
14.00-15.00	Lunch Break
15.00-17.00	Validictory Function

POSTER SESSION

Tuesday, 27 November 2018

Session SI: Climate Change: Adaptation, Mitigation, Carbon sequestration and Food Security

SI/P-1: Growth and Yield Responses of Wheat (*Triticum aestivum*) Plants Treated with Ethylene Diurea (EDU) under Elevated CO₂

Surabhi, Veena Pande and Vivek Pandey (India)*

SI/P-2: Over-expression of *CarMT* Gene Provides Tolerance against Drought Stress by Modulating Antioxidants and Physiological Performances in *Arabidopsis thaliana* L.

Arvind Kumar Dubey, Veena Pande and Indraneel Sanyal (India)*

SI/P-3: Effects of Drought on Seedling Growth and Activity of Antioxidative Enzymes in Rice (*Oryza sativa* L.) with Response to Salicylic Acid

Preeti Verma, Anjali Srivastava and P.K. Singh (India)*

SI/P-4: Evaluation of Sodicty Tolerance, Growth and Yield Performance of Aloe Species at Different Soil Sodicty Levels

T.S. Rahi, Anand Prakash, Faizia Iram and Lal Bahadur (India)*

SI/P-5: Interactive Effects of eCO₂ and Drought on Pyrethrin Content in *Tanacetum cinerariifolium* Flowers

Farah Deebea, Vivek Pandey, Laiq-Ur-Rahman (India)*

SI/P-6: Effects Of Elevated Carbon Dioxide And Tropospheric Ozone On Sorghum

Mitul Kotecha, Vishal Prasad and Vivek Pandey (India)*

SI/P-7: Histopathological Studies of Drought Tolerant and Sensitive Rice Varieties in Presence of Endophytes under Drought Condition

Touseef Fatima, Isha Verma, Sanjeev Kumar and Poonam C. Singh (India)*

SI/P-8: Climate Change and the Current Scenario of *Rhizoctonia solani* Incited Disease of Solanaceous Vegetables

Amjad Shahzad Gondal, Abdul Rauf and Farah Naz (Pakistan)*

SI/P-9: Adaptation of Guar [*Cyamopsis tetragonoloba* (L.) Taub.] Plants in Response to Abiotic Stress of Light, Temperature and Drought

Shiv Narayan, Komal Pandey and Pramod Arvind Shirke (India)*

SI/P-10: Impact of Elevated CO₂ and/or O₃ on Rice Varieties under Open Field Conditions

Rushna Jamal, Mitul Kotecha, Rekha Kannaujia, Vivek Pandey (India)*

SI/P-11: Interaction between Climate Change Drivers and Nutrient Fertility: Temperature, CO₂, and Phosphorus

Vangimalla R. Reddy and Shardendu K. Singh (India)*

SI/P-12: Interaction of Soil CO₂ Efflux with Soil Parameters in Three Different Forest Communities in Tropical Deciduous Forest of Northern India

Shruti Mishra, Soumit K. Behera, L.B. Chudhary, M.K. Jain and Vipin Kumar (India)*

SI/P-13: Assessment of Essential Nutrients in Soil and Litter in Tropical Deciduous Forest of Northern India

Shruti Mishra, Soumit K. Behera, L.B. Chudhary, M.K. Jain and Vipin Kumar (India)*

SI/P-14: Impact of Elevated Ozone on Leaf Nutrient Properties of *Leucaena leucocephala*: A Fiber Yielding Tree

Pratiksha Singh, Ashish Tewari and Vivek Pandey (India)*

SI/P-15: Effect of Environmental Variables in the Assembling of Tree Community in Tropical Moist Deciduous Forest of Himalayan Terai

Omesh Bajpai, Venkatesh Dutta, Rachna Singh, L.B. Chaudhary and Jitendra Pandey (India)*

SI/P-16: Emission of GHGS and Community Level Physiological Profiles of Microbes is Altered by Soil Amendments

Nishtha Mishra, Pratibha Verma, Priyanka Chauhan and Aradhana Mishra (India)*

Tuesday, 27 November 2018

Session S-II: Biodiversity: Prospection and Conservation

SII/P-1: Traditional Uses of Biodiversity amongst the *Bhangalis* and the Practices for their Conservation

*Alpy Sharma**, *Sanjay Kr. Uniyal and Daizy R. Batish* (India)

SII/P-2: Poplar and Other Fast-Growing Tree Culture Outside Forest

*Anita Tomar**, *Anubha Srivastav and Abhijeet Pandey* (India)

SII/P-3: Morphological and Cytogenetical Analysis of *Sechium edule* (Jacq.) Swartz

*Asikho Kiso**, *Sanjay Kumar and Limasenla* (India)

SII/P-4: Diversity of Parasitic Algae *Cephaleuros* Species (Trentepohliaceae, Chlorophyta) In Kerala, India

*Binoy T. Thomas**, *M.V. Bhagya and V.P. Thomas* (India)

SII/P-5: An Enumeration of Medicinal Macrofungi from Hamirpur Region of Himachal Pradesh

*Jyoti Pathania** and *Hem Chander* (India)

SII/P-6: Altitudinal Variation in Traits of Rhododendrons

*N. Abenthung Kithan**, *Sanjay Kumar and N.S. Jamir* (India)

SII/P-7: Propagation and Multiplication of some Bryophytes under *in vitro* Condition

*Mridula Maurya** (India)

SII/P-8: Lichen Diversity of Udala Area in Mayurbhanj District of Odisha, India

*Srimay Pradhan**, *Prashant Kumar Behera, Sandeep Kumar Nayak and Kunja Bihari Satapathy* (India)

SII/P-9: A Preliminary Investigation on Mosses of Nagaland (North-East India)

*Vinay Sahu** and *A.K. Asthana* (India)

SII/P-10: *In vitro* Seed Germination, Regeneration and Synthetic Seed Production Based Micropropagation of a Terrestrial Medicinal Orchid (*Malaxis acuminata* D. Don)

*Anuprabha** and *Promila Pathak* (India)

SII/P-11: A Preliminary Study on the Relative Abundance and Diversity of Insect Pollinators in Different Fruit Orchards of Kumaun Himalaya, India

*Fasuil Farooq** and *Manoj Kumar Arya* (India)

SII/P-12: Ecology and Economy of Grasses of Trans-Himalayan Region

*Mudassir Ahmad Bhat**, *Priya Badgal, Poonam Chowdhary and Amarjit Singh Soodan* (India)

SII/P-13: Characterization of Most Potent Species of *Bauhinia* using Gel Electrophoresis

*Kumari Nutan Sinha**, *Tanuja and Jyoti Kumari* (India)

- SII/P-14: Studies on Plant Resources in Gunjan Ecological Park, a Freshwater Pitlake in Raniganj Coal Field Area, West Bengal India: Implications for Sustainable Use**
*Pinaki Chattopadhyay**, Saikat Mondal, Pallavi Chattopadhyay and Debnath Palit (India)
- SII/P-15: Assessment of Molecular Diversity of *Ribes grossularia* using RAPD Markers**
Diksha Molpa, Pooja Saklani*, Pawan Singh Rana and Chandresh Chandel (India)
- SII/P-16: Lichen Communities and Species Indicate Climate Thresholds in Indian Himalayas**
*Rajesh Bajpai** and D.K. Upreti (India)
- SII/P-17: Assessment of Bryophyte Diversity at Tiger Hill (Darjeeling, Eastern Himalaya) and its Importance in Context of Anthropogenic Activities**
*Reesa Gupta** and A.K. Asthana (India)
- SII/P-18: Current Taxonomic Status of Caesalpinioideae-Leguminosae in Uttar Pradesh**
*Shivaraman Pandey**, Gauri Saxena, Rameshwar Prasad and Lal Babu Chaudhary (India)
- SII/P-19: Biodiversity Conservation and Ecosystem Carbon Storage in Traditional Homegardens in Mizoram, Northeast India**
Soibam Lanabir Singh and Uttam Kumar Sahoo* (India)
- SII/P-20: Algal Diversity with Special Reference to Chlorophyceae of Shershah Suri Pond, Kanpur, U.P.**
*Vishal Saxena** and R.K. Khare (India)
- SII/P-21: Conservation Strategies in *Selinum*: A Himalayan Medicinal and Aromatic Herb**
*Ravi Prakash Srivastava** and Gauri Saxena (India)
- SII/P-22: A Preliminary Diversity Analysis of Dicotyledonous Plants of Dima Hasao District of Assam, India**
*R.K. Verma**, B.A. Khan, V.V. Wagh, Baleshwar, S.K. Behera, S. Tamta and L.B. Chaudhary (India)
- SII/P-23: *Pedaliun murex* L. from Wild to Commercial Production: An Understanding with Issues and Challenges**
*Sujata Shekhar**, Akhilesh Kumar and J.N. Shrivastava (India)
- SII/P-24: Checklist of Green Algae (Chlorophyceae) of Uttar Pradesh, India**
*Sushma Verma** Kiran Toppo and Sanjeeva Nayaka (India)
- SII/P-25: Application of Macro and Micromorphological Characters of Seeds in Diversity Analysis of *Astragalus* L. (Leguminosae) in India**
Shivani Kashyap and L.B. Chaudhary (India)
- SII/P-26: Distribution and Diversity of Lichens in Dima Hasao District, Assam with Special Reference to Forest Health**
*Gaurav K. Mishra**, Sanjeeva Nayaka and Dalip K. Upreti (India)
- SII/P-27: Comparative Study of Microbiota (Bacteria and Fungi) Diversity and Physico-Chemical Analysis of Budhatalab and Ranisagar Ponds of Rajnandgaon District, C.G.**
*Shama Afroze Baig** and Anita Mahishwar (India)

SII/P-28: Diversity of Macrophytes and Microphytes in Budhatalab and Ranisagar of Rajnandgaon District, C.G.

Anita Mahishwar and Shama Afroze Baig (India)*

SII/P-29: Carbon Accumulation Pattern in Different Forest Types of Northwestern Himalaya, India: the Role of Tree Structural and Species Diversity

Shiekh Marifatul Haq, Maroof Hamid, Anzar A. Khuro and Irfan Rashid (India)*

SII/P-30: Assessment of Plant Growth and Physiological Performance Among 08 Varieties of Chickpeas in Indo-Gangetic Plains of Uttar Pradesh

Shiv Naresh Singh, Shruti Mishra, N. Manika, Bilal A. Khan, Nayan Sahu, Nalini Pandey and Soumit K. Behera (India)*

SII/P-31: Invasive Alien Flora of Parvati Aranga Wildlife Sanctuary and Adjacent Tikri Forest Area, Gonda District Uttar Pradesh, India

Vineet Singh (India)*

SII/P-32: Aroma Yielding Grasses of India; A Potential Resource for Bioprospection

Shailja Tripathi, Abhai K. Srivastava, Priyanka Agnihotri and Tariq Hussain (India)*

SII/P-33: SSR Marker based Genetic Diversity Analysis in *Tinospora cordifolia*

Suchita Lade, Hemant Kumar Yadav and Veena Pande (India)*

SII/P-34: Distribution and Current Status of *Thalictrum* (Ranunculaceae) from India

Harsh Singh and Dibyendu Adhikari (India)*

SII/P-35: Invasive Alien Plants of Balasore District in Odisha

Sandeep Kumar Nayak and Kunja Bihari Satapathy (India)*

SII/P-36: Ecological Study of *Cassia uniflora* Mill. an Invasive Plant in Central India

Vijay Kumar and P.K. Khare (India)*

SII/P-37: Do Invasive Alien Species Pose a Threat to Rich Phyto-Diversity of Kinnaur District of Himachal Pradesh?

P. Sharma, H.P. Singh and D.R. Batish (India)*

SII/P-38: Lectotypification of *Boehmeria densiflora* Hook. & Arn. (Urticaceae) and Hooker and Arnott's Sets of Duplicates from Captain Beechey's Expedition

Imtiyaz Ahmad Hurrah, Vijay Vishnu Wagh and Avinash Tiwari (India)*

SII/P-39: Hemi Synthesis, Computational and Molecular Docking Studies of Novel Nitrogen containing steroidal Aromatase Inhibitors; Testolactum and Testololactum

Rayees Ahmad Lone, Shabir Hassan Lone and Vijay Vishnu Wagh (India)*

SII/P-40: Preliminary Studies on Algal Flora of Suhelwa Wildlife Sanctuary in Uttar Pradesh with Special Reference to Morphotaxonomy

Kiran Toppo, Sushma Verma and Sanjeeva Nayaka (India)*

SII/P-41: Patalkot: A Treasure of Medicinal Plants and Biodiversity is under Danger, Needs Conservation of Plants

*Neelima Ratti**

Tuesday, 27 November 2018

Session S-III: Environmental Biotechnology and Microbiology

SIII/P-1: Plant Growth Promoting Rhizobacteria: Prospects towards Sustainable Agriculture

Ashmita Ghosh, Mrinal Ray, Debnirmalya Gangopadhyay and Suman Das (India)*

SIII/P-2: Indirect Organogenesis from Leaf Segments of *Solanum lycopersicum*

Poonam Chaudhary, Balwinder Singh and Avinash Kaur Nagpal (India)*

SIII/P-3: Notes Onbio-Indicator Lichens Enumerated from Sikandra Hill of North West Himalaya

Monika Thakur and Hem Chander (India)*

SIII/P-4: Three Auxin Response Factors Promote Hypocotyl Elongation

Ashish Chaturvedi (India)*

SIII/P-5: Systematic Identification and Analysis of Lysine Succinylation in Strawberry Stigmata

Ashish Chaturvedi (India)*

SIII/P-6: Proteomic Study of Somatic Embryogenesis (A Tool for Rapid Plant Development) in *Catharanthus roseus*

Basit Gulzar and Abdul Mujib (India)*

SIII/P-7: Lipase Catalyzed Biodiesel Production: A Review

Chandra Bhan and Jiwan Singh (India)*

SIII/P-8: Heavy Metal(loid) Stresses in Plants and their Detoxification by Soil Microorganisms

Ipsa Gupta and Neera Garg (India)*

SIII/P-9: *Trichoderma* Mediated Modulations of Chickpea Rhizospheric Activities in Presence of Organic Amendments and Inorganic Fertilizers

Anshu, AshmitaTandon, Udit yadav, Pankaj Kumar Srivastava, Kumkum Mishra, Poonam C. Singh (India)*

SIII/P-10: Draft Genome Sequencing, Functional Gene Annotation, Reconstruction of Lipid Metabolic Pathways and Comparative Evaluation of Oleaginous Microalgae *Scenedesmus quadricauda* LWG002611

Chitralkha Nag Dasgupta, Sanjeeva Nayaka, Kiran Toppo and Atul Kumar Singh (India)*

SIII/P-11: Insilco Studies Of Mango Genome Cultivars And Development Of Analysis Tool

Rabia Faizan, Tayyaba Qamar-ul-Islam, Muhammad Ahmed, Uzma Mehmood(Pakistan)*

SIII/P-12: Synthesis of Bioengineered Gold Nanoparticles for Enhancing Catalytic Activity

Ashutosh Tripathi, Shipra Pandey, Ved Prakash Giri, Vivek Pandey, Aradhana Mishra (India)*

SIII/P-13: Phosphate Solubilization By *Trichoderma Koningiopsis* (Nbri-Pr5) Under Abiotic Stress Conditions

Touseef Fatima, Isha Verma, Udit Yadav, Sanjeev Kumar, Poonam C. Singh*(India)*

SIII/P-14: Modulation In Nutritional Value And Defence Activity Of Chickpea By Supplementation Of A Novel Trichoderma Fusant

*Pratibha Verma**, *Nishtha Mishra*, *Priyanka Chauhan*, *Aradhana Mishra* (India)

SIII/P-15: Molecular diversity and characterization of indigenous salt tolerant plant growth promoting rhizobacteria isolated from different agro-climatic zones of Uttar Pradesh

Sankalp Misra, *Shashank Kumar Mishra*, *Vijay Kant Dixit*, *Swati Gupta*, *Puneet Singh Chauhan** (India)

SIII/P-16: Assessment of Bacterial Community as Fertility Indicators in Response to Heavy Metal Contamination in Paddy Fields Soil

Nikita Bisht, *Shashank Kumar Mishra*, *Swapnil Pandey*, *Sankalp Misra*, *Vijaykant Dixit*, *Puneet S. Chauhan** (India)

SIII/P-17: Characterization Of Potential Microbes For Arsenic Stress Amelioration In Rice

Vandana Anand, *Salil Kumar Arkvanshi**, *Sonal Srivastava*, *Suchi Srivastava* (India)

SIII/P-18: Alleviation of micronutrient malnutrition through biofortification

*Kriti**, *Shekhar Mallick*, *Suchi Srivastava*, *Kumkum Mishra* (India)

SIII/P-19: Isolation, Production and Reaction Conditions Optimization of Amidase of *Bacillus* sp. MNB-1

*Monica Sharma** and *Monika Geetanjali* (India)

SIII/P-20: Influence of heavy metal on the soil microbial community structure and root exudates

*Naina Marwa**, *Meenakshi Khushwaha*, *Gauri Saxena*, *Nandita Singh* (India)

SIII/P-21: Development of an Algal Consortium for Arsenic Removal from Water

*Anurakti Shukla** and *Sudhakar Srivastava*

SIII/P-22: Use of Bioinoculants to Augment Growth and Yield of Soybean (*Glycine max*) under Drought Stress Condition

Anamika Dubey and *Ashwani Kumar** (India)

SIII/P-23: Applications and Mechanism of Plant Growth Promoting Rhizobacteria (PGPR) Containing ACC Deaminase under Waterlogging Conditions

*Jyoti Prakash** (India)

SIII/P-24: Biotechnological Investigation for Propagation and Conservation of Beles (*Opuntia ficus-indica* (L.) Mill in Tigrey Region of Ethiopia (Africa)

*Shastri Prasad Shukla**, *Zinabu Hailu* and *Yemene Kehsay* (Ethiopia, Africa)

SIII/P-25: Evaluation of Selected Compatible Microbial Consortia for the Growth Promotion and Increased Essential Oil Content In *Mentha arvensis* under Field Conditions

*Suman Singh**, *Arpita Tripathi*, *Deepamala Maji*, *Anju Yadav*, *Poornima Vajpayee* and *Alok Kalra* (India)

SIII/P-26: Algal Biomass Pretreatment for Enhanced Methane Potential

*Shashi Bhushan**, *Mohit Singh Rana*, *Mamta* and *Sanjeev Kumar Prajapati* (India)

SIII/P-27: Characterization of plant growth promoting rhizobacteria isolated from extreme environment (volcanic soil) with multiple plant beneficial traits along with abiotic stress tolerance capabilities

*Shashank Kumar Mishra, Swapnil Pandey, Sankalp Misra, Vijay Kant Dixit, Nikita Bisht and Puneet Singh Chauhan** (India)

SIII/P-28: Somatic Embryogenesis Responsive Kinase (*OsSERK*) and *Myb* Related Gene (*OsGLK*) Improved Somatic Embryogenesis and Regeneration Potential in Rice (*Oryzasativa* L.)

Yuvraj Indoliya, Poonam Tiwari and Debasis Chakrabarty*

POSTER SESSION

Wednesday, 28 November 2018

Session S-IV: Environmental Impact Assessment

SIV/P-1: Impact of Conversion of Grassland to Agroecosystem on Soil Organic Carbon Content in Dry Tropics

Priyanka Soni, Chandra Mohan Kumar and Nandita Ghoshal (India)*

SIV/P-2: Lead and Cadmium in Indian Herbal Medicines: Health Risk Assessment

*Debika Chakraborty, Arindam Nath, Parmita Bhattacharjee, Shamim Sultana Choudhury and Suchismita Das**

SIV/P-3: Environmental Impact Assessment of Proposed Residential Project: A Case Study of Agra

Manjul Gupta, Pankaj Kumar Srivastava, Akash Kumar (India)*

SIV/P-4: Heavy Metals (Pb, Cd, Hg) and Organochlorine Pesticides in Freshwater Fishes: Risk Evaluation for Consumers

Geeta Singh (India)*

SIV/P-5: Tree Falling Risk Assessment of IOCL Campus New Bongaigaon, Assam and their Control Measures

Rehanuddin, Priyanka Agnihotri, P.S. Chauhan and S.K. Tewari (India)*

Wednesday, 28 November 2018

Session S-V: Sub-tropical and Tropical Oaks under Global Change

SV/P-1: Regeneration and Potential Distribution of Late Successional *Quercus leucotrichophora* (Banj Oak) in the Central Himalayan Forests of Uttarakhand

Niyati Naudiyal¹ and Joachim Schmerbeck²*

SV/P-2: Altitudinal Distribution of Oak Species in Three Wildlife Sanctuaries in Sikkim, India

Arun Chettri and Subhankar Gurung (India)*

SV/P-3: Genome Size Estimation of *Castanopsis* Species (Fagaceae) from Meghalaya, India using Flow Cytometry

Kiran, Babita Joshi, Gopal Ji Tiwari, Satya Narayan Jena and Saroj K. Barik*

SV/P-4: Patterns of Diversity and Structure of Oak Forests in Meghalaya along a Disturbance Gradient

Aabid Hussain Mir¹ and Krishna Upadhaya²*

SV/P-5: Restoring and Managing *Quercus* in Riparian Forests of the Southern USA

John A. Stanturf¹, Emile S. Gardiner², Daniel C. Dey³, Douglass F. Jacobs⁴, Brian R. Lockhart⁵*

SV/P-6: Flow of Provisioning Services from Oak Dominated Forest of Western Himalaya

Subhasis Mahato, Sabyasachi Dasgupta and N.P. Todaria (India)*

Wednesday, 28 November 2018

Session S-VI: Biomonitoring and Bioremediation

SVI/P-1: Increasing Ground Water Arsenic Contamination in India: A Future Danger

Seema Mishra, Sanjay Dwivedi, Amit Kumar, Reshu Chauhan, Surabhi Awasthi and R.D. Tripathi (India)

SVI/P-2: Appraisal of Heavy Metals in Roadside Soil from Surroundings of Ropar Wetland, Punjab, India

Sakshi, Avinash Kaur Nagpal and Inderpreet Kaur (India)*

SVI/P-3: Diatoms as an Important Indicators of Pollution, Futala Lake study, Nagpur, India

M.P. Meshram, K.J. Cherian and S.D. Dhyani (India)*

SVI/P-4: Effect of Arbuscular Mycorrhizal Fungi on Growth and Cadmium (Cd) Uptake by *Solanum nigrum* Grown in Cd Contaminated Soil

P. Sharma, H.P. Singh and D.R. Batish (India)*

SVI/P-5: Assessment of Organochlorine Pesticide Residues in the Leaves of Medicinal Plants of Bathinda City, Punjab

Prashant Singh and Puneeta Pandey (India)*

SVI/P-6 Assessing Accumulation of Heavy Metals in the Bushehr Province Shore via Magnetic Properties of Sediment, Leaf and Root of *Avecina Marina*

Shadi Karbalaeei Hassan, Fateme Kardel, Hamide Rashid and Jelle Hofman (Iran/Belgium)*

SVI/P-7: Biosorption of Lead and Cadmium by Cyanobacteria and Optimization of its Biosorption Potential

Sonal Dixit and D.P. Singh (India)*

SVI/P-8: Role of Algae in the Assessment of Pollution Status of River Ganga at Kanpur, India

Vinod Rishi, Sunil Tripathi, A.K. Awasthi and Ravindra Singh (India)*

SVI/P-9: Arsenic-Induced Nutrient Uptake in As-Hyperaccumulator *Pteris vittata*

Xue Liu, Changhong Liu, Yungen Liu and Lena Q. Ma (China)*

SVI/P-10: Accumulation and Distribution of Arsenic and Phosphorus in *Typha* under Arsenic Stress

Wei Ren, Yuan Gao, Wang Yan, Yungen Liu and Lena Q. Ma (China)*

SVI/P-11: Potential of Decentralized Approaches in Sewage Treatment

Aditi Roy and Pankaj Kumar Srivastava (India)*

SVI/P-12: Collegial Microbial Model for Arsenic Removal and Plant Growth Promotion: A Novel Approach

Manyata Sharma, Pankaj Kumar Srivastava and D.C. Sharma (India)*

SVI/P-13: Bioremediation as a Prospective Technology to Remove Cyanide from Coke Oven Plant Effluent of Steel Industry

Saloni Rishi, Pankaj Kumar Srivastava, R.D. Tripathi, R.N. Kharwar and S.K. Verma (India)*

SVI/P-14: Remediation of Dyes in Water using Biogenic Nanoparticles

Akanksha Pandey and Pankaj Kumar Srivastava (India)*

SVI/P-15: Role of Root Exudates to Promote Fungal Growth in an Arsenic Remediating Consortium and Validation of Growth using MTT Assay

Ispreet Kaur, Pankaj Kumar Srivastava and Kavita Shah (India)*

SVI/P-16: Monitoring of Arsenic Bioavailable Fractions in Soils of West Bengal and its Relationship with Soil Properties for Reducing Arsenic Contamination

Suman B. Singh and Pankaj Kumar Srivastava (India)*

SVI/P-17: Fungi: Remedy for Arsenic Menace

Mariya Naseem, Pankaj Kumar Srivastava and Neha Jaiswal (India)*

SVI/P-18: Mycoremediation a Potential Solution for Arsenic Remediation in Soil

Priya Dubey, Sneha Lata and Pankaj Kumar Srivastava (India)*

SVI/P-19: Soil Arsenic: Contamination in Uttar Pradesh

Richa Mishra, Neha Jaiswal and Pankaj Kumar Srivastava (India)*

SVI/P-20: An Application of Various Biogenic Nano Materials for the Remediation of Arsenic Contaminated Water

Sampurna Nand, Virendra Jaiswal and Pankaj Kumar Srivastava (India)*

SVI/P-21: Arsenic Removal from Contaminated Water by Modified Fungal Biomass

Soni Chauhan, Sneha Lata and Pankaj Kumar Srivastava (India)*

SVI/P-22: Green Hydrogels: Most Promising Alternative to Remove Arsenic from Water

Vartika Gupta, Pankaj Kumar Srivastava and Neha Jaiswal (India)*

SVI/P-23: Self Cleansing Properties of Ganga during Mass Ritualistic Bathing on Maha-Kumbh

Sanjay Dwivedi, Puneet Chauhan, Seema Mishra, Amit Kumar, Mohan Kamthan, Reshu Chauhan, Surabhi Awasthi, P.K. Singh, Sumit Yadav, Aradhana Mishra, Geet G. Sinam, Shekhar Mallick, S.K. Ojha, S.K. Tewari, R.D. Tripathi and C.S. Nautiyal (India)*

SVI/P-24: Ganga Water Pollution Due to Religious Activities

Sanjay Dwivedi, Seema Mishra, Lalit Agrawal, Geetgovind Sinam, Sita Ram Taigor and Rudra Deo Tripathi (India)

SVI/P-25: Emerging Arsenic Removal Technologies from Ground Water in India

Sanjay Dwivedi, Seema Mishra and R.D. Tripathi (India)*

SVI/P-26: Contamination of Arsenic in Ghaghra Basin: A Potential Threat to Local Inhabitants

Sanjay Dwivedi, Seema Mishra, Vishnu Kumar, Pragya Sharma, Amit Kumar and R.D. Tripathi (India)*

SVI/P-27: Use of Plants and Animals as Bio Indicators in Ancient Indian Science of Climatology and Effect of Climate Change on it

Navneet Shukla and Vinod Shukla (India)*

SVI/P-28: Bioremediation of Sewage using two Potential Microalgae

Atul Kumar Singh, Chitralkha Nag Dasgupta, Kiran Toppo and Sanjeeva Nayaka(India)

SVI/P-29: Phytoremediation Potentiality of Four Fly Ash Tolerant Plants Grown On Fly Ash Dykes: A Case Study of Obra Thermal Power Station, Sonebhadra, India

Ashutosh Pandey, Sanjay Dwivedi, Shekhar Mallick, Nandita Singh and Vivek Pandey* (India)

SVI/P-30: Arsenic Contamination Confines Fertility Indicators Of Paddy Soil

*Vijay Kant Dixit, Shashank Kumar Mishra, Sankalp Misra, Arpita Singh and Puneet Singh Chauhan** (India)

SVI/P-31: A Study on Carbon Sequestration Potential of *Chlorella ellipsoidea* Isolated from Domestic Sewage Water with Inorganic Source of Carbon

Himangshu Sharma, Mahdi Ahmed, Pampi Sarmah and Jayashree Rout* (India)

SVI/P-32: Removal of Emerging Contaminants of Municipal Wastewater through Sustainable Phytotechnologies

Gurudatta Singh and Virendra Kumar Mishra* (India)

SVI/P-33: Strategies for Arsenic Reduction in Crops for Sustainable Environment and Agriculture

R.D. Tripathi, R. Chauhan, S. Awasthi, P.K. Singh, M. Shri, P. Verma, S. Dwivedi, S. Mishra, P.K. Srivastava, B. Adhikari, P.K. Trivedi and D. Chakrabarty (India)

SVI/P-34: Application of Stable Isotopes in Environmental Monitoring and Pollution Studies

Vivek Kumar and D. Paul* (India)

SVI/P-35: Lichen Use as a Biomonitoring Tool for Assessment of Air Quality

Kirti Kumari and Sanjeeva Nayaka* (India)

SVI/P-36: Phytoremediation of Heavy Metal Contaminated Soils: A Potentially Promising Clean-up Technology

*K.K. Tiwari** (India)

SVI/P-37: Bioremediation and Monitoring of 2,4-D in Contaminated Soil of Vidarbha using Non-Invasive Geophysical Tools: A Novel Approach

K.S. Bramhanwade, S. Dhyani, P. Balwant, P. Pujari, F. Chiampo and A. Godio* (India)

SVI/P-38: Chelants (Edta, Citric Acid) Induced Nickel and Chromium Accumulation in Tomato Grown on Industrially Polluted Soil

S.N. Pandey and Sanjoli Tripathi* (India)

SVI/P-39: Physico-Chemical Characteristics of Surface Water Nearby Industrial Areas of Balrampur

Zaheen Hasan and D.D. Tewari* (India)

SVI/P-40: Characterisation of Groundwater Quality in the Aquifer of Indo-Nepal Border of Balrampur City

Zaheen Hasan and D.D. Tewari* (India)

SVI/P-41: Physico-Chemical Characterization of Rivers in Different States of India: A Review

Sandip Singh Bhatti, Jaswinder Singh, Vasudha Sambyal, Avinash Kaur Nagpal (India)*

SVI/P-42: Periodic Dissemination of Phthalate Esters in Pond Water of the Amritsar City, Punjab, India

Sneh Rajput, Rajinder Kaur and Saroj Arora (India)*

SVI/P-43: Contamination Of Ground Water Due To Leakage Of Septic Tanks

Lisha Taneja and Mayank (India)*

SVI/P-44: Study of Physico-Chemical Analysis of Groundwater for Pre- and Post-Monsoon Variation of Gorakhpur District, Uttar Pradesh, India

Priyanka Chaudhary (India)*

SVI/P-45: Biomarkers based Comparative Cytogenotoxicity Assessment of Two Fertilizers

Sonam Verma and Alka Srivastava*

SVI/P-46: Pyrenocarpous Lichens as an Indicator of Ecological Continuity in Forests of Manipur and Nagaland

Komal Kumar Ingle, Sanjeeva Nayaka, Vindhreshwari Uppadhyay and D.K. Upreti (India)*

SVI/P-47: Silicon and Selenium Reduce Arsenic Uptake and Mitigate Arsenic Toxicity in Rice (*Oryza sativa*) Plants by Activation of Antioxidant Enzyme System

Amit Kumar, Sanjay Dwivedi and R.D. Tripathi (India)*

SVI/P-48: A Consortium of Alga (*Chlorella vulgaris*) and Bacterium (*Pseudomonas putida*) for Amelioration of Arsenic Toxicity in Rice: A Promising and Feasible Approach

Surabhi Awasthi, Reshu Chauhan, Suchi Srivastava, Sudhakar Srivastava and Rudra Deo Tripathi (India)*

SVI/P-49: Diminution of Arsenic Accumulation in Rice Seedlings Co-Cultured With *Anabaena* Sp.: Modulation in the Expression of Lower Silicon Transporters, Two Nitrogen Dependent Genes and Lowering of Antioxidants Activity

Ruma Ranjan, Navin Kumar, Arvind Kumar Dubey, Ambedkar Gautam, Shyam Narain Pandey and Shekhar Mallick (India)*

SVI/P-50: Evaluation of Phytoremedial Potential of *Pteris vittata* through Cytogenetic Biomarker using *Vicia faba*

Kiran Gupta, Alka Srivastava and Amit Kumar (India)*

SVI/P-51: *In-vitro* Degradation of Fluorene by Bacteria Mediated by Catabolic Enzymes

Nitanshi Jauhari and S.N. Singh (India)*

SVI/P-52: Microplastic Pollution in River Ganges at Varanasi: A Case Study

Vyomendra Chaturvedi and Kavita Shah (India)*

SVI/P-53: Fluoride: Pollution and Mitigation

Gayatri Singh, Geetgovind Sinam, Babita Kumari, Kriti, Mahiya Kulsoom and Shekhar Mallick (India)*

SVI/P-54: Ganga water Pollution management by green clean technology and outreach programmes

*Mridul Kumar Shukla** (India)

SVI/P-55: Estimation of Arsenic in Rice Grains and Rice-Based Food Products in Gangetic Region

Nidhi Tyagi and Sudhakar Srivastava* (India)

SVI/P-56: Degradation of Diesel using Co-Culture of Bacterial and Fungal Strains

Babita Kumari, Kriti, Mahiya Kulshoom, Gayatri Singh, Shekhar Mallick and Pankaj Kumar Srivastava* (India)

SVI/P-57: Interaction of Microalgae with Engineered Nano-Materials: Possibilities for Bioremediation and Biofuel Production

*Mohit Singh Rana, Shashi Bhushan, Ruben Sudhakar, Sanjeev Kumar Prajapati** (India)

SVI/P-58: Characterization of Yeast Strains with Potential of Arsenic Stress Amelioration

*Jasvinder Kaur, Vandana Anand, Sonal Srivastava, Pankaj Kumar Srivastava and Suchi Srivastava** (India)

SVI/P-59: The Role of Metallothionein Gene in Abiotic Stress

Sanoj Kumar, Arvind Kumar Dubey and Indraneel Sanyal*

SVI/P-60: Remediation of Heavy Metal Contaminated Soils: An Innovative Technology for the Present and Future Research

Khusboo Pandey and K.K. Tiwari*

SVI/P-61: Identification and Characterization of Multi-trait Quorum Sensing Exhibiting PGPR Isolates and Assessing their Prospective as Inoculants for Zea mays

Arpita Singh and Puneet Singh Chauhan*

SVI/P-62: Impact of Pyrometallurgical Slags on Sunflower Growth, Metal Accumulation and Rhizosphere Microbial Communities

Priya Jaiswal, Ana Carolina Agnello and Puneet S. Chauhan*

POSTER SESSION

Thursday, 29 November 2018

Session S-VII: Plant Responses to Environmental Pollution

SVII/P-1: Screening of Genotypic Variability in Nitrogen use Efficiency of *Brassica oleracea* L. var. *capitata* on the basis of Various Morpho-Physiological and Biochemical Parameters

Peer Saffeullah, Tinu Anand Kain, Shahid Umar and Tariq Omar Siddiqi (India)*

SVII/P-2: Effect of Carbendazimon Mustard [*Brassica juncea* (L.) Czern & Coss.]: An *in vitro* Study

Monika and Mohd. Kashif Kidwai (India)*

SVII/P-3: An *in vitro* Study of Effect of Sugar Mill Effluent on Radish (*Raphanus sativus* L.) Varieties

Mohd. Kashif Kidwai and Kamlesh (India)*

SVII/P-4: Effect of Different Levels of Fertilizers on Morphological Characteristics of Two *Vigna* Species

Supriya Dixit and R.K. Gupta (India)*

SVII/P-5: Percussion of Plant Derived Smoke and Karrikinolide on Germination, Growth, Photosynthesis and Nutritional Values of Carrot

Arshiya Akeel, M. Masroor A. Khan, Hassan Jaleel and Moin Uddin (India)*

SVII/P-6: Effect of Sodium Dodecyl Sulphate (SDS) to Determine the Indices of *Allium* Species Studied

Thejasenuo Julia Kirha, Sanjay Kumar² and Talijungla (India)*

SVII/P-7: Impact of Silicon: Most Neglected Nutrient, Inimproving Quality and Quantity of Menthol Production in *Mentha arvensis*

Vinod Goyal, Sanjay Dwivedi, Anita Kumari, Neeru Jain and Rudra Deo Tripathi (India)*

SVII/P-8: Impact of Cadmium Toxicity on Germination, Plant Biomass, Oxidative Stress Markers and Osmolyte Synthesis in *Cajanus cajan* (L.) Millsp. (Pigeonpea) Genotypes

Aditi and Neera Garg (India)*

SVII/P-9: Response of *Linum usitatissimum* L. to Heavy Metal Contaminated Soil

Adnan Khan and Athar Ali Khan (India)*

SVII/P-10: Phytochemical Evaluation and Free Radical Scavenging Activity of Seeds of *Cyamopsis tetragonoloba* L. (Taub.) Genotypes

Mohd Akram Ansari, Vivek Kumar Sharma, Arvind Kumar Dubey, B.N. Singh, Veena Pande and Vivek Pandey (India)*

SVII/P-11: Comparative Impact of Arsenate and Arsenite Toxicity on Germination, Growth, Nodulation Potential and Osmolytes Synthesis in *Cicer arietinum* L. (Chickpea) Genotypes
Amandeep Cheema and Neera Garg (India)*

SVII/P-12: Role of Glutaredoxin in Abiotic Stress
Anil Kumar, Veena Pande and Indraneel Sanyal (India)*

SVII/P-13: Variation of Chlorophyll Pigment and Dustfall Flux on the Foliar Surfaces of Selected Indoor Plants in Delhi
Ankita Katoch and U.C. Kulshrestha (India)*

SVII/P-14: Air Pollution and Plant Water Relations: An Increasingly Important Interaction
David A. Grantz (USA)*

SVII/P-15: A Comparative Analysis of Plant Functional and Eco-physiological Traits between Invasive (*Prosopis juliflora*) and Native (*Acacia nilotica*) Species
Harman Singh, Harinder Pal Singh, Daizy Rani Batish and Ravinder Kumar Kohli (India)*

SVII/P-16: SEM Studies of Seed Surfaces in Some Members of Family Asteraceae
Harpreet Kaur and Avinash Nagpal (India)

SVII/P-17: Thiourea Supplementation Differentially Impacts on Arsenic Accumulation in Two Selected Rice (*Oryza sativa* L.) Cultivars in Bengal Delta Basin
Munish Kumar Upadhyay, Arnab Majumdar, Anil Barla, Sutapa Bose, Ashish Kumar Srivastava, P. Suprasanna and Sudhakar Srivastava (India)*

SVII/P-18: Identifying Nutrient Regulators of Lipid and Starch Biosynthesis in *Chlamydomonas reinhardtii*
Amit K. Bajhaiya and Jon K. Pittman (Sweden/UK)*

SVII/P-19: *In vitro* Propagation of *Rhodobryum roseum* Limpr. with Exogenous Application of 2,4-D and Vitamin B1: A Strategy to Enhance Biomass
Isha Pathak and A.K. Asthana (India)*

SVII/P-20: Role of Exogenous Polyamines on Plant Biomass, Nutrient Status, Osmolytes Synthesis and Yield Parameters in *Cajanus cajan* (L.) Millsp. (Pigeonpea) Genotypes under Nickel Stress
Kiran Saroy and Neera Garg (India)*

SVII/P-21: Functional Validation of CAMTA Transcription Factor in Chickpea (*Cicer arietinum* L.)
Meenakshi, Veena Pande and Indraneel Sanyal (India)*

SVII/P-22: Ethylene Di Urea as Ozone Protectant under High Tropospheric Ozone in Two Mung Cultivars
Rekha Kannaujia, Vivek Prasad and Vivek Pandey (India)*

SVII/P-23: Growth, Pigments and Antioxidative Responses of *Trigonella foenumgraecum* against Excess Zinc in Soil
Sanjoli Tripathi and S.N. Pandey (India)*

SVII/P-24: Screening of *Cajanus cajan* (L.) Millsp. (Pigeonpea) Genotypes for their Arsenic Tolerance in Terms of Germination, Seedling Growth, ROS Generation and Osmotic Balance
Shyna Bhalla and Neera Garg (India)*

SVII/P-25: Benzyl-Butyl Phthalate Induced Physiological Responses in *Hordeum vulgare* (L.) Seedlings
Arpna Kumari and Rajinder Kaur (India)*

SVII/P-26: Diethyl Phthalate Triggered Growth and Biochemical Manifestations in *Spirodela polyrhiza* L. Schleiden
Ritika Sharma and Rajinder Kaur (India)*

SVII/P-27: miRNA156j Confers Differential Regulation under Arsenic Stress at Various Developmental Stages in Rice
Alka Srivastava, Akhilesh K Pandey, Ashok K. Verma, Praveen C. Verma and R.S. Dubey (India)*

SVII/P-28: Physiological Attributes Associated with Leaf Spectroscopic Alterations of Guar [*Cyamopsis tetragonoloba* (L.) Taub.] under Water Deficit Condition
Priyanka Upreti, Shiv Narayan and Pramod Arvind Shirke* (India)*

SVII/P-29: Elucidation of Complex Nature of PEG Induced Drought-Stress Response in Chickpea Root Using Comparative Proteomics Approach
Swati Gupta, Shashank Kumar Mishra, Lalit Agrawal, Puneet Singh Chauhan, Chadra Shekhar Nautiyal (India)*

SVII/P-30: Synergistic Effects of Plant Viruses and Heavy Metals on Different Responses of Plant System
Rashmi Raj, Lalit Agrawal, Susheel Kumar, Puneet S. Chauhan, S.K. Raj (India)*

SVII/P-31: Alterations in CO₂ Assimilation Vs Internal CO₂ Response Curve under Water Deficit Condition in *Cyamopsis tetragonoloba* (L.) Taub
Komal Pandey, Shiv Narayan and Pramod Arvind Shirke (India)*

SVII/P-32: Bacterial Endophytes Eliciting Physiological Performance and Withanolite Biosynthetic Pathway in *Alternaria alternata* Infected *Withania Somnifera*
Priyanka Chauhan, Satyendra Pratap Singh, Arpita Bhattacharya, Pratibha Verma, Aradhana Mishra (India)*

SVII/P-33: Sulfur Nanoparticle Mediated Detoxification of Arsenic Stress in Rice (*Oryza sativa* L.)
Garima Awasthi, Amit Kumar, Kiran Gupta, Kumkum Mishra, R.D. Tripathi (India)*

SVII/P-34: Evaluation of Leaf Proteomics Responses during Selenium Mediated Tolerance of Arsenic Toxicity in Rice (*Oryza sativa* L.)
Reshu Chauhan, Surabhi Awasthi, Sanjay Dwivedi, Lalit Agrawal, Shekhar Mallick, Veena Pande, Rudra Deo Tripathi (India)*

SVII/P-35: Evaluation of Proteomics Responses of Rice (*Oryza sativa*) during Arsenic Toxicity Amelioration by a Potential Microbial Consortium
Surabhi Awasthi, Reshu Chauhan, Sudhakar Srivastava, Sanjay Dwivedi, Lalit Agrawal, Rudra Deo Tripathi (India)*

SVII/P-36: Selenium Mitigates Arsenic Toxicity by Modulation of Phenolics, Antioxidant System and Thiols in Rice (*Oryza sativa* L.)

*Reshu Chauhan**, Surabhi Awasthi, Sudhakar Srivastava, Sanjay Dwivedi, Rudra Deo Tripathi (India)

SVII/P-37: Phytotoxicity and Metabolic Adaptations in Rice Exposed to Copper Oxide Nanoparticles and Copper Ions

*Archana Dwivedi**, Subodh Kumar, Alok Kumar Pandey and Poornima Vajpayee (India)

SVII/P-38: CuO Nanoparticles Affects Growth, Photosynthetic Pigments and Cellular Antioxidants in *Ocimum basilicum*

*Subodh Kumar**, Archana Dwivedi, Alok Kumar Pandey and Poornima Vajpayee (India)

SVII/P-39: Impact of Heavy Metal on the Benthic Microbial Community

*Chitra Pokharia** and Kavita Shah (India)

SVII/P-40: Temporal Development of Stomatal Traits Regulate Physiological Responses in Cotton

*Raghvendra Dubey, Shivanand Suresh Dudhagi and Pramod Arvind Shirke** (India)

SVII/P-41: Screening of Sensitive and Tolerant Cultivars of Rice (C₃) and Maize (C₄) based upon Morphological Response against Abiotic Stress

*Ambedkar Gautam**, Kavita Shah and Shekhar Mallick (India)

SVII/P-42: Difference in Leaf Proteome Response of Winter Wheat to Interactive Effect of Elevated CO₂ and EDU against High Ambient Ozone

*Vivek K Maurya**, Nalini Pandey and Vivek Pandey (India)

SVII/P-43: Toxicological Effects of Silver Nanoparticles on Different Physiological Parameters of Tadpoles, *Polypedates maculatus*

*Rojalin Pattanayak** and Priyabrata Swain (India)

SVII/P-44: Synthesis of Gold Nanoparticles from Leaf Protein of *Nicotiana tabacum* and their ROS Scavenging Responses under Stress Conditions

*Mohammad Israil Ansari** and Syed Uzma Jalil (India)

SVII/P-45: Identification of Arsenic Sensitive and Arsenic Tolerant Rice Varieties on the Basis of Early Seedling Growth Responses

*Poonam Yadav**, Sudhakar Srivastava and Madhu Babu Pulagam (India)

SVII/P-46: Juniper Berry (*Juniperus communis* L.) Essential Oil can Confers Stress Tolerance and Life Span Extension in Nematode *Caenorhabditis elegans*

*Swapnil Pandey, Shashank Kumar Mishra, Vijay Kant Dixit, Sankalp Misra, Priya Jaiswal, Alok Lehri, Puneet Singh Chauhan** (India)

SVII/P-47: Nitric Oxide-Mediated Modulation of Stress Tolerance Responses to Mitigate Arsenic Toxicity in Rice (*Oryza lativa* L.)

*P.K. Singh**, D. Chakrabarty and R.D. Tripathi (India)

SVII/P-48: An Interactive Study of UV-B Radiation on Green Algae *C. humicola* and *C. vulgaris*: Implication on Photosynthetic Performance and Nutrient Status

*R. Singh, A.K. Upadhyay and D.P. Singh** (India)

SVII/P-49: Interactive Effects of Putrescine (PUT) and Arbuscular Mycorrhiza (AM) on PUT Metabolism and Rhizobial Symbiosis in *Cajanus cajan* (L.) Millsp. under Salt Stress

*Neera Garg and Amrita Sharma** (India)

SVII/P-50: Heavy Metal Pollution and Genotoxicity of Soil

*Avinash Kaur Nagpal** (India)

Thursday, 29 November 2018

Session S-VIII: Contemporary Issues in Environment and Plant

SVIII/P-1: Study of Bioaccumulation in Fishes and Bovines by Feeding Plants Growing Near Mine Void: A Case of Talcher, Odisha

S. Chakraborty, S. Dhyani and P. Pujari (India)*

SVIII/P-2: *In silico* Analysis of Peroxidases (Pr9 Protein Family) in *Solanum lycopersicum*

Amritpreet Kaur, Pratap Kumar Pati, Aparna Maitra Pati and Avinash Kaur Nagpal (India)*

SVIII/P-3: A Comparative Study on the Effects of Four Wild Variety Medicinal Oil Cakes against Root Knot Nematode Infecting Tomato

Soumya Sucharita Mohanty and Kumanand Tayung (India)*

SVIII/P-4: Nutritional Evaluation of Indian Carrot (*Daucus carota* L.)

Tinu Anand Kain, Peer Saffeullah, Shahid Umar and Sayeed Ahmad (India)*

SVIII/P-5: Micronutrient Availability and Distribution in Soils Amended with Crop Residues and Organic Manures

Deepika Rajwar and Ajay Kumar Bhardwaj (India)*

SVIII/P-6: Development Projects on Silk Production in North East India

Suman Das, Mrinal Ray, Ashmita Ghosh and Gangesh B. Singh (India)*

SVIII/P-7: Documentation of Herpetofaunal Species and Need for their Conservation: A Study in Tripura, India

Sumit Nath and Mithra Dey (India)*

SVIII/P-8: Is Nitrogen the Next Carbon?

Viney P. Aneja (USA)*

SVIII/P-9: Pollen-Vegetation Relationship in Surface Sediments Renuka Region, Sirmaur, Himachal Pradesh, India

Anjali Trivedi and Anjum Farooqui (India)*

SVIII/P-10: Fungal flora Associated with Indian and Foreign Coins and their Potential Health Risks

Drishiti Navlani, Aditi Maheshwari, Vidhatri Thakkar, Rohit Taunk, Naitik Chaudhary and Arun Arya (India)*

SVIII/P-11: Bioprospecting Role of *Cetrelia braunsiana* against Pathogenic Microorganisms

Devashree, Anupam Dikshit and Sanjeeva Nayaka (India)*

SVIII/P-12: Adoption Extent and Horizontal Spread of Tomato (*Lycopersicon esculentum* Mill.) Cultivation through Front Line Demonstration in Eastern Uttar Pradesh of India

P.K. Misra, P.N. Singh, S.N. Singh and Pardeep Kumar (India)*

- SVIII/P-13: Study of Some Morphological and Biochemical traits Based on Triple Test Cross Analysis in Opium Poppy (*Papaver somniferum* L.)**
*Pawan Kumar Pal**, Krishna Nand Maurya, Alka Srivastava and Sudhir Shukla (India)
- SVIII/P-14: Effect of Different Soils on Leaf Growth of *Jatropha*: A Biodiesel Plant**
*Sapna La'Verne** (India)
- SVIII/P-15: Ethnomedicinal Plants Used by the Tribals for the Treatment of Diabetes in Gajapati District of Odisha**
*Somani Jethi** and Kunja Bihari Satapathy (India)
- SVIII/P-16: Defluoridation by Electrocoagulation using Aluminium Electrodes: A Case Study of Real Groundwater**
*Vishakha Gilhotra** and Manpreet Singh Bhatti (India)
- SVIII/P-17: Prevalence and Antibiotic Susceptibility Pattern of Bacterial Isolates from the Symptomatic Urinary Tract Infection Patients**
*Rajanbir Kaur** and Rajinder Kaur
- SVIII/P-18: A Positive and negative impacts of nanotechnology**
*Amit Kumar**, Kiran Gupta, Garima Dixit, Sanjay Dwivedi and Sudhakar Srivastava (India)
- SVIII/P-19: Application of Humicil for Enhancing the Soil Quality and Yield of Indian Mustard *Brassica juncea* (L.)**
*Rajan Chaurasia**, Rama Kant Dubey and P.C. Abhilash (India)
- SVIII/P-20: Endolichenic Fungus: New Horizon for Biopharmaceutical Development**
*Jyotsna Chakarwari** and Sanjeeva Nayaka (India)
- SVIII/P-21: Impact of Radionuclides around Nuclear Facilities: Radio-Ecological and Public Health Approach**
*Devi D. Pandey** (India)
- SVIII/P-22: Crude Herbal Medicines for Treatment of Infectious Disease and Encephalitis**
*Akhilesh Kumar Singh**, Janmejaya Singh, V.K. Patel, V.K. Mishra, V.S. Singh and D.K. Purushottam (India)
- SVIII/P-23: Invasive Plants as a Remedy for Gynecological Disorders in Madhya Pradesh**
*Vedika Gupta** and Vijay V. Wagh (India)
- SVIII/P-24: Organic Farming: A Scientific Approach for Sustainable Agriculture in Rainfed Hill Conditions of North-Eastern Hill region**
*A.N. Tripathi**, Hage Munth, A.K. Tripathi and N.K. Mishra (India)
- SVIII/P-25: The Tree Bean *Parkia roxburghii*: An Underutilised Legume with Potential to Provide Food Security**
*Shafquat Fakhrah, Arpit Chauhan, Rayees Ahmad Lone, Sagar Prasad Nayak, Kunwar Sarvendra, Debashish Sahu and Chandra Sekhar Mohanty** (India)

SVIII/P-26: Assessment of Sensitivities among 11 Wheat Cultivars Towards Ambient Ozone by Application of Ethylenediurea (EDU) in Natural Field Conditions

*Baisakhi Majumder**, *Ashutosh K. Pandey*, *Elina Oksanen*, *Tapan K. Nailwal* and *Vivek Pandey* (India)

SVIII/P-27: Gentianaceae: Two New Species and One New Addition to Flora of India from Ladakh Trans-Himalaya, India

*Mohd Shabir**, *Priyanka Agnihotri*, *J.K. Tiwari* and *Tariq Husain* (India)

SVIII/P-28: Selection of *Gerbera jamesonii* Cultivars for Subtropical Floriculture through *In vitro* Regeneration of Shoots - A Laboratory to Field Study

*Dharmendra Kumar Purshottam**, *Ramesh Kumar Srivastava* and *Pratibha Misra**

SVIII/P-29: Technology and Training Needs Assessment of Farm Women in West Kameng District Arunachal Pradesh

N.K. Mishra, *T.S Mishra*, *A. N Tripathi* and *V.K Misra*



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