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## Inaugural session (9:30 to 11:55 am)

Date: 28<sup>th</sup> June 2019

Keynote Address by Prof. G.S. Solanki  
Professor and Head, Department of Zoology  
Mizoram University, Aizawl, Mizoram

**Title: Bio resources: Profile, Prospects and Strategies for Conservation.**

## Technical Session I

**Traditional, herbal, and ethno medicines (12.15 - 1.30 pm)**

Chairperson : Professor G S Solanki, Professor and Head,  
Department of Zoology, Mizoram University, Aizawl, Mizoram

OP- 1: Ethnomedicinal Plants Used to Cure Skin Ailments by Assamese People of District Golaghat, Assam, India. Chayanika Chetia, Priyanka Gohain, Wasim Khan, Pavitra Chutia.

OP- 2: Ethnic Medicine of Man-Tai Speaking Group of People with Special Reference to Titabar Sub-Division. Saruj Saikia, Ranajit Gogoi.

OP- 3: Investigation of preliminary phytochemicals and antimicrobial properties of *Cyperus rotundus* L. Dr Minuara Begum, Ms Kaberi Nath.

OP- 4: Antifungal activity of Phyto-extracts of *Piper longum*, *Aloe vera*, and *Withania somnifera* against human fungal opportunistic pathogen *Candida albicans*. Hardeep Kaur, Rananmay Bharadwaj.

OP- 5: Antimicrobial activity and chemical constituents of essential oil of wild *Homalomena aromatica* Schott. of Assam. Minuara Begum.

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## Technical Session II

**Biodiversity vis-a-vis climate change, Biodiversity of coastal and river ecosystems,  
Extream weather events and climate change. (2:30 - 4.30 pm)**

Chairperson : Dr. L N Kakati, Professor of Dept. Zoology,  
Nagaland University, Lumami. Nagaland

OP- 6: A study on hydrophytic flora of Sivasagar sub division of Sivasagar district. Jayanta Duarah

OP- 7: Anthropogenic Threats and Biodiversity Conservation Strategy of the Chapanala Forest Area of Nagaon District of Assam. Jenima Sultana, Kumud Das.

OP- 8: Title: Prioritization of Soil Erosion Susceptible areas through Morphometric analysis in a Hilly Watershed of Arunachal Himalayas, North-East India. Dr. Madhurjyoti Chakravartty

OP- 9: Food and feeding habit of Juvenile and adult snakehead *Channa aurantimaculata* Musikasinthorn; an endemic murrel from Upper Brahmaputra River Basin. Dr. Nibedita Gogoi

OP- 10: Study on Avian diversity and their conservation status in Tezpur Area, Sonitpur, Assam. Mrs Manisha Das.

OP- 11: Ornithofauna of Kapla Beel of Barpeta, Assam. Bubul Das, Sonjib Borah, Dilip Borah.

OP -12: Ichthyofaunal composition and habitat ecology in the downstream of Ranganadi River Dam, N.E, India. J. D. Mali and P. Chutia.

OP-13: Freshwater Crab Diversity of Chumukedima, Dimapur District, Nagaland. Noklenolal, Sangeeta Das.

OP-14: Role of Environmental Economics in Climate Change. Shimanta Gogoi.

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## Technical Session III (9:30 am-1:30 pm)

**Biodiversity assessment, modeling and informatics**

**Bioprospecting, Municipal solid waste - the challenge it possesses, E-waste management, Biofuels, Advancement in bio conservation relevant to different branches in physical science.**

Chairperson : **Dr Binoy K Saikia**, Scientist, Polymer Petroleum & Coal Chemistry group,  
MSTD, CSIR-NEIST, Jorhat, Assam

OP- 15: Production of vermicompost from tea waste by inducing *Lampito maruittii* (kinberg) a indigenous earthworm of Golaghat district, Assam. Apurba Saikia & P. Chutia and S.R. Sarmah.

OP-16: 2D Hydrotalcite based mixed-metal nano-oxide catalyst for the conversion of High GWP gas N<sub>2</sub>O to valuable feedstock Pinky Saikia, Rajib Lochan Goswamee.

OP-17: Microalgae and biodiesel production : A case study in North-east India. Adarsha Sarmah.

OP-18: Bioprospecting of freshwater macroalgae from North-East India Banasree Sharma, Jayashree Rout.

OP-19: Problems and prospects of Municipal solid waste management in Jorhat. Ashish Pratim Hazarika

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- OP-20: E-Waste Management. Trishna Jyoti Saikia, Rupa Saikia.
- OP-21: Differences of Butterfly Communities in Different Habitats with Various Degree of Disturbance in Barail Hill Range. Monsoon Jyoti Gogoi, Hilloljyoti Singha, Panna Deb.
- OP-22: Moth Diversity of Three Selected Sites of Titabar Subdivision, Assam. Modhusmita Borkakoty, Dr. Manashi Bortamuly, Abhijit Konwar.
- OP-23: Synthesis of Tannic acid based polyurethane through non-isocyanate route and effect of organically modified clay on its physicochemical behavior. Simanta Doley, Swapan K. Dolui.
- OP-24: Human Wildlife Interface from Some Areas of Bokakhat Sub-Division, Golaghat, Assam, India. Sonjib Bora, Dr. Dilip Borah, Darshana Kakoty, Phalgun Chetia, Mriganka Mahanta
- OP-25: Balance Habitat Biodiversity of an Ecosystem - A Case study in Kaziranga National Park, Golaghat District of Assam. Bikimoni Hazarika, Neetima Sarmah.
- OP-26: Observation of Pollution Tolerant Aquatic Plants of Bokakhat Sub-division, Golaghat, Assam with special reference to Water Environment. Tulshi Borah, Debajit Saikia, Jitumoni Sarma Pathak.
- OP-27: Study on variation in Local and Thai *Anabas testudineus*. Shyamalima Hazarika, Saibal Sengupta

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### Technical Session IV (2:30 pm-3:30 pm)

#### Ecosystem and literature

- Chairperson : **Dr. Kartik Neog**, Scientist,  
Central Muga Eri Research & Training Institute  
Central Silk Board, Govt. of India  
Lahdoigarh, Jorhat, Assam
- OP- 28: Traditionally Used Medicinally Plants of Majuli River Island, Assam. Pubali Bhuyan,  
Daisy Konwar, Dr. Rimen Bordoloi.
- OP-29: Weeds of Paddy Fields With Reference to Medicinal Property in Golaghat District of  
Assam. Rupanjita Bora, Jitumoni Sarma Pathak.
- OP-30: A Study on the Phytochemical Properties of *Sarcochlamys pulcherrima*, a medicinal  
plant of Mishing Community of Assam. Anima Kutum, Mridul Chetia.
- OP-31: Phytochemical Analysis Of Two Medicinal Plants *Caesalpinia Bonduc*( L) Roxb  
And *Holarrhena Antidysenterica*, (L) Wall., Used By Tea Tribe Community Of Jorhat  
District , Assam. B. P. Borkotoky, P. Chutia & S. Sarmah.
- OP-32: To study the diversity, species richness and distribution patterns of spider fauna in  
different habitats of Kaziranga National Park. Phalgun Chetia, Dr. (Mrs) Dipsikha  
Bora.
- OP-33: Ethno- Veterinary Medicines in Sonitpur District of Assam, India.  
Rupa Kalita, J.C.Kalita.
- Invited Lecture : Importance of Wetlands in Kaziranga National Park. Rabindra Sarma

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### Poster Presentation (3:30 pm-4:30 pm)

- Judge : Dr. Kartik Neog, Scientist,  
Central Muga Eri Research & Training Institute  
Central Silk Board, Govt. of India  
Lahdoigarh, Jorhat, Assam
- PP- 01: Diversity of Ethnomedicinal Plants Under the Genus *Curcuma* of Zingiberaceae in Jorhat District of Assam, with Special Reference to Phytochemical and Antibacterial Study of *Curcuma caesia* Roxb. and *Curcuma aromatica* Salisb. Kalyan Das<sup>1</sup>, L.R. Saikia,<sup>2</sup>
- PP- 02: Synthesis of Fe<sub>3</sub>O<sub>4</sub>, Ni-doped Fe<sub>3</sub>O<sub>4</sub> and Zn-doped Fe<sub>3</sub>O<sub>4</sub> nanoparticles by co-precipitation method and their applications in ultrasound assisted removal of methylene blue dye from water. Jharana Phukan, Priyanga Manjuri Bhuyan, Niharika Debnath, Mukulesh Baruah, Nabajyoti Saikia\*
- PP- 03: Conservation of Nature and the Karbis: An Ecological Study. Aftazur Rahman
- PP- 04: Kinetics Study On Esterification Reaction Catalysed By molecularly Imprinted Polymer. Sumbita Gogoi
- PP- 05: Impact of Coal Mining Activities on Stream Biodiversity in North East India: A Case Study. Madhulika Dutta<sup>1\*</sup>, Hari Prasad Nath<sup>1</sup>, Champa Gogoi<sup>1</sup>, Pankaj Kalita<sup>1</sup>
- PP- 06: Effect of biomass additions on pyrolysis kinetics & mechanisms of high sulfur Assam coal. H. P. Nath<sup>1</sup>, Madhulika Dutta<sup>2</sup>, Champa Gogoi<sup>2</sup>, Pankaj Kalita<sup>2</sup>, Nabajyoti Saikia<sup>1\*</sup>

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- PP- 07: Use of pernicious weed *Ipomoea carnea* for removal of congo red from water. Jitu Saikia<sup>1,2</sup>, Susmita Sarmah<sup>1,2</sup>, Rajib Lochan Goswamee<sup>1,2</sup>
- PP- 08: A study on Disease Risk Assessment in a protected area for the conservation of re-introduced Greater One-horned Rhinoceros (*Rhinoceros unicornis*) in Manas National Park, Assam, India. Debabrata Phukon<sup>1,2\*</sup>, Parag Nigam<sup>2</sup>, K. Ramesh<sup>2</sup>, Prabhakar Maurya<sup>3</sup>, Amit Sharma<sup>4</sup>
- PP- 09: Water quality evaluation of Gamariguri Block of Golaghat District of Assam, India with reference to Arsenic and Fluoride. Champa Gogoi<sup>1,2,3</sup>, Hari Nath<sup>3</sup>, Madhulika Dutta<sup>3</sup>, Pankaj Kalita<sup>3</sup>, Dipak Sinha<sup>2</sup>, Rajib Lochan Goswamee<sup>1,4\*</sup>
- PP- 10: Bioremediation for Arsenic(As)removal from Drinking Water by Water hyacinth (*Eichhornia crassipes*), Water lettuce(*Pistia stratiotes*) and Duckweed(*Lemna minor*), Pankaj Kalita<sup>1\*</sup>, Hari Prasad Nath<sup>1</sup>, Madhulika Dutta, <sup>1</sup>Champa Gogoi<sup>1</sup>
- PP- 11: Anti-bacterial Activities of Medicinal Plants in Human Odour Bacteria. Goswami S<sup>1</sup>, Dr. T.G. Devina<sup>2</sup>, Ghosh S\*, Jahan F.Z\*, Saikia A\*
- PP- 12: Feeding behavior of *Antheraea assamensis* in response to the Primary and Secondary Metabolites present in different varieties of *Persea bombycina* leaves. Ms. Darshana Kakoty, Mr. Sonjib Borah, Dr. Dilip Borah
- PP- 13 : Small Indigenous Fish (SIS) Diversity in BorsollaBeel, Jorhat, Assam and their Application as Traditional Medicine against different Ailments. Pallwabee Duarah, Gauripriya Borah
- OP- 14: Assessment of Drinking Water Quality Parameters of Some Selected Public Water Supply Schemes of Golaghat District of Assam, India. Himashri Das, Pompi Sinha, Priti Talukdar.