National Conference
NATURAL RESOURCES MANAGEMENT
AND SUSTAINABLE AGRICULTURE
With Reference to North-East India

28 & 29 JANUARY, 2020

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Chairman

Patron
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Prof. (Dr.) V. S. Devadas
Dean-Faculty of Agriculture Sciences

Convener
Dr. Chowlani Manpoong
Asstt. Professor, Faculty of Agriculture Sciences

Organized By
Faculty of Agriculture Sciences
Arunachal University of Studies
NH-52, Knowledge City, Distt. Namsai,
Arunachal Pradesh - 792103, India
Arunachal University of Studies (AUS) has been established by the Government of Arunachal Pradesh through an Act No. 2/2012 of State Legislation, duly recognized by UGC u/s 2(f) and is empowered to award degrees specified u/s 22 of UGC Act of 1956, and is also accredited by NAAC. Since its inception, the University has created several laurels in the education field and has received appreciations from different sections.

The University has been awarded ‘The Best Emerging University in North East’ at National Education Excellence Awards 2017 conducted by ASSOCHAM. Other awards includes ‘Best University in Academics’ by CCLA, ‘Best Knowledge Creation & Innovation University’ by ASSOCHAM and ‘Best University in East India’ by CEGR. The University has signed a MOU with foreign Universities such as Northumbria University, New Castle University, United Kingdom, Maejo University Thailand and Chiang Mai University, Thailand for sharing knowledge, resources, faculty & student exchange, joint certification & developmental programmes.

The University enjoys the status of being the ‘Extreme North-Eastern University of India’ and is blessed with the affection of Lord Dongji (Sun), as “The First University to witness the sunrise in India”. It is situated at the serene location of Namsai district in Arunachal Pradesh, which is also popular for the famous Buddhist temple and ’The Kongmu Kham’ (Golden Pagoda).
**Events Organized**

AUS has successfully conducted a series of seminars, trainings and workshops. The major among them are International seminar on economic prosperity & nutritional security, Skill upgradation training in organic farming (2014), National conference on wild edible indigenous goods, National seminar on Indian constitution (2015), Training on disaster management, Seminar on capacity building rehabilitation professional, Diagnostic and sensitisation workshop for hearing impairment (2016), World Tourism Day (2017) and Bamboo craft training programme (2019). Apart from these, we have also conducted three INSPIRE programmes in 2014, 2017 and 2018 sponsored by DST, Govt of India.

**About faculty of Agriculture Sciences**

The Faculty of Agriculture Sciences was started in 2014. The Faculty is implementing various academic and research programmes. It offers Diploma, UG, PG and Ph.D. courses in Agriculture. The faculty also implement research programmes which are based on location specific requirements like performance evaluation of traditional varieties, standardisation of agro techniques etc. The department has organized several events such as National and International Conferences, Inspire programmes and various Farmer training events. The Faculty has collaboration with Krishi Vigyan Kendra, ICAR, Namsai for conducting RAWE programme for the B.Sc. Agriculture students. Arunachal University of Studies has also signed a Memorandum of Understanding with Maejo University, Chiang Mai Province, Thailand for faculty & student exchange programme.

**Research achievements in Agriculture:**

Research programmes in the Faculty of Agriculture focus on evaluation of varieties and standardisation of agro techniques in rice, oil seeds, maize, spices, fruits and vegetables. The major achievements during 2018-19 are summarized below:

**Rice:**  Among different paddy varieties evaluated, the variety Thailand Lahi was found promising. Among the indigenous varieties Sali and among the improved varieties MTU-7029 were high yielders. Varietal response of paddy seeds during storage indicated superiority of Thailand Lahi, MTU–1010 and Sali for better storage life expressing their slow rate of ageing, when compared to other varieties. Investigations on effect of organic methods of seed treatment in different rice varieties: the highest seed germination and growth of seedlings were seen in Thailand Lahi (73.66%), treated with Amritpani; and hydro priming was found effective to enhance speed of germination.

**Maize:**  Evaluation of maize varieties at different planting densities showed that the variety Bond NMH 007 performed best at 70 cm X 20 cm spacing. Survey of maize fields in Namsai district revealed that 17 species of weeds belonging to 10 families and 15 genera are present in maize fields. Cyperus rotundus, Oxalis corniculata, Doctyloltenium aegyptium, Ageratum conyzoides, and Cyanodon dactylon were the most common weeds found. Minimum weed density per plot and dry weight of weeds were seen in plots applied with Atrazine@ 0.25 kg per ha + plastic mulch.

**Toria and Mustard:**  Studies on toria varieties revealed that among the six varieties evaluated, TS-36 with 92 days duration was found to be the most suitable variety. Evaluation of different organic manures on growth and yield of mustard revealed that application of poultry manure @ 10 t/ha resulted in better growth and yield parameters.

**Peas:**  Among the ten pea varieties evaluated, variety Somani recorded the highest growth and yield attributes. Varieties Welcome–2010 and Rajdhani varieties were found at par with Somani.

**French beans:**  Variations in seed quality parameters of 10 varieties indicated that seeds of the variety Selection–9 was the most superior with respect to 100 seed weight, germination percentage, vigour index, root length and seedling dry weight.

**Potato:**  Studies on effect of different organic manures on potato variety Kufri Jyothi shown that the combination of FYM + Vermi compost (7.5 t and 3 t / ha respectively) or a combination of Farm Yard Manure + Poultry Manure (7.5 t and 2.5 t / ha) are the most appropriate manure options for high yield of potato under Namsai conditions of Arunachal Pradesh.
**Concept of the Conference**

The states of Northeast India are well known for rich biodiversity and different farming systems practiced by the indigenous population with varied traditional and cultural beliefs. The diversity of ethno-medicinal plants including non-timber forest products plays an important role in enhancing livelihood options and food security. Nonetheless, the natural resources are being exploited rapidly since few decades to meet the needs of increasing population. The region experiences rapid changes in land use pattern and associated ecological imbalance, which has drastically altered the biodiversity and resource utilization pattern.

This conference aims to build sustainable approaches towards current trends related to farming systems, agricultural production, soil fertility status, forest resources utilization pattern and biotechnology innovations.

**Call for Papers**

Research papers for Oral and Poster presentations are invited in the following themes:

**Themes:**
1. Land Use Impact on Natural Resources
2. Farming Systems and Agroforestry
3. Soil Fertility, Microbes and Environmental Chemistry
4. Biotechnology Innovations Towards Sustainable Agriculture
5. Forest Resources and Medicinal & Aromatic Plants
6. Horticulture and Sustainability
7. Socio-economic Impact and Supply Chain Management
8. Sustainable Agriculture and Sustainable Resource Management

**Registration Fee**

| 1. Academicians/Faculties/Scientists/NGOs: | Rs. 2500/- |
| 2. Research Scholars: | Rs. 1500/- |
| 3. Students: | Rs. 1000/- |

**Note:** Rs. 3000/-, 2000/- and 1500/- respectively, after the due date (10 December, 2019) and for spot registration.

Registration fees can be made through online transfer mode only.

**Bank details:**
1) **Account No.**: 081601002277
2) **Name of Account holder**: Arunachal University of Studies-Faculty of Agriculture Sciences
3) **Name of Bank**: ICICI Bank
4) **IFSC code**: ICIC0000816

**Note:** Registration fee includes Conference Kit, Tea, Lunch & Dinner.

**DEADLINES**

1) Abstract Submission: 25 November, 2019
2) Notification of Acceptance: 30 November, 2019
3) Registration & Requisition for accommodation: 10 December, 2019
4) Submission of Full length paper: 10 December, 2019
Abstract

Format of the abstract: Title of the Manuscript (Times New Roman, bold, font size 14) followed by Author(s) name, affiliation(s) and email of corresponding author (Times New Roman, italics, font size 11). Abstract should be between 150-200 words including five keywords (Times New Roman, font size 11). Abstract should be submitted through email attachment only.

E-mail: ausagri@arunachaluniversity.ac.in

Full length paper

Publication of conference proceedings is proposed which will be released after the conference (only for the registered participants). The format of the manuscript should be accordingly. First page- Title of the paper (Times New Roman, bold, font size 14) followed by Author(s) name, affiliation(s) and email of corresponding author (Times New Roman, italics, font size 11). The body of the paper will start with Abstract, Introduction, Materials and methods, Results and discussion, Conclusions and References (Times New Roman, font size 12). Reference cited in the text and in the end should strictly be according to Harvard Referencing Style.

Full length paper (word document) should be submitted as email attachment to: ausagri@arunachaluniversity.ac.in

Preparation of Presentation (Oral/Poster)

The Oral Presentation should be made as Power-point presentation only. Maximum time-limit provided for presentation will be 10 minutes, followed by 5 minutes discussion.

The Poster size should be 4 ft (length) × 3 ft (width). The Title should be same as submitted in the Abstract. Poster should emphasize graphics by keeping text to minimum, however, important discussion may be included, wherever necessary. Text should be large enough to be readable from a distance of 3 to 4 ft. Material may be displayed in the sequence (Introduction, Materials and methods, Results and discussion, Conclusions, and References).
How to reach Namsai

The University is located at Namsai (Headquarter of Namsai district) on the way from Tinsukia to Tezu via NH-52, It is well connected by Air, Rail and Road. The nearest Airport is Mohanbari Airport, Dibrugarh (118 km by road) and the nearest Railway Station is New Tinsukia Junction (72 km by road). Namsai is well connected by road with the neighbouring towns of Assam. Daily day and night bus services are available from Guwahati to Tinsukia, Namsai and Tezu. The participants can search Arunachal University of Studies, Knowledge City, Namsai on Google maps.

Accommodation & Transportation

Accommodation will be arranged in nearby Hotels/Guest Houses for the out-stationed participants on a first come first serve basis. The charges for accommodation are to be borne by the participants themselves. Transportation facility will be arranged by the University from Dibrugarh Airport and New Tinsukia Junction to Namsai, and back. TA of delegates will not be provided by the organisers.

Participants interested for tour/trip to tourist destinations such as Golden Pagoda and Parsuram Kund will have to bear additional expenses. The scheduled date for the tour/trip is 30th January, 2020 (Thursday).
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6. Prof. D.S. Hernwal (Dean, Education & Law)
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8. Sh. H. N. Dubey (Director PR)
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10. Mr. P. K. Chaubey (Transport & Security Officer)
11. Mr. Shankar Jyoti Borah (Administrative Officer)

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3. Dr. Md. Juned K. Ahmed
4. Dr. Sangeeta Sharma
5. Mr. Avinash Sharma
6. Ms. Tara Bhuyan
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REGISTRATION FORM

Name: ...........................................................................................................................................

Gender: ☐ Male ☐ Female  Designation & Department: .....................................................................................

University/ Institute/ Organization: ...................................................................................................................

Mailing Address: ..............................................................................................................................................

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E-mail: ......................................................................................................................................................... Mob. No ........................................................

Theme: ............................................................................................................................................................

Title of the Paper: ............................................................................................................................................

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Type of presentation (Oral / Poster): ................................................................................................................

Name of the presenting author: ........................................................................................................................

Travel Particulars:

Date: .............................................. Travel by: ................................................................. Time: ..............................................

Arrival.................................................................................................................................................. Departure........................................................................................................

Accommodation required: ☐ Yes ☐ No  From: ..............................................to .............................................(Date)

No. of Days / Nights:............

Details of the Registration fee paid (only through online mode): ........................................................................

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(Signature with date)

Note: Scan copy of the Registration form should be sent to: ausagri@arunachaluniversity.ac.in