

### Award

Prizes will be awarded for the best oral / poster presentations.

### Registration

All participants are requested to send the attached registration form duly completed along with registration fee through a demand draft in favour of "The Registrar, Annamalai University. Payable at Annamalai (or) Chidambaram." Cash payment may be made to the Organizing Secretaries in person. The delegates will be provided tea and working lunch during the conference days. As only limited accommodations are available at the campus on payment, the delegates are requested to make their own arrangements.

### Registration fee:

Category	Amount
Companies	2000
Academicians / Scientist	800
Research Scholars / Students	400

### Calendar of Events

Last date for registration and submission of abstracts : 15.01.2019  
Last date for registration and submission of full paper : 15.01.2019  
Date of communication of acceptance letter : 16.01.2019

### How to reach Annamalai University

Annamalai University is located at Annamalai Nagar about 2 km east of Chidambaram town in Cuddalore district. The nearest airports are Chennai, Puducherry (Pondicherry) and Tiruchirapalli. Chidambaram is located at 240 km south of Chennai, 70 km south of Puducherry and 130 km east of Tiruchirapalli. It is well connected by rail route and road. The nearest railway stations are Chidambaram (On Chennai Egmore Tiruchirapalli mail line) and Vriddhachalam (On Chennai Egmore Tiruchirapalli Chord line). There are enough number of state Government buses and luxury buses available to reach Chidambaram from major cities and towns of Tamilnadu. Chidambaram is surrounded by religious places and picnic spots.

### ORGANISING COMMITTEE

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**Prof. V. Murugesan**  
Vice-Chancellor

#### Patron

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Registrar i/c,

#### Chairman

**Dr. K. Thanunathan**  
Dean, Faculty of Agriculture

#### Convenor

**Dr. S. Natarajan**  
Professor and Head, Department of Agronomy  
Faculty of Agriculture

#### Organizing Secretaries

**Dr. P. Anandan & Mr. K. P. Senthilkumar**  
Assistant Professors, Department of Agronomy  
Faculty of Agriculture

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Dr. S. Kandasamy

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#### Contact Address:

**Dr. P. Anandan, & Mr. K. P. Senthilkumar**

Assistant Professors & Organizing Secretaries  
DST Sponsored National Seminar on

"Climate Resilient Technologies for Sustainable Agriculture"  
Department of Agronomy, Faculty of Agriculture,  
Annamalai University, Annamalai Nagar - 608 002

Mobile : 9865775591 & 9442828455 | E-mail: crtsa2019@gmail.com

ANNAMALAI UNIVERSITY

(Accredited with 'A' Grade by NAAC)

*Celebrating*  
**90 Years**

1929 - 2019

Faculty of Agriculture  
Department of Agronomy

DST Sponsored National Seminar  
on

**CLIMATE RESILIENT TECHNOLOGIES  
FOR SUSTAINABLE AGRICULTURE  
(CRTSA - 2019)**

24<sup>th</sup> and 25<sup>th</sup> January 2019

#### Chairman

**Dr. K. THANUNATHAN, Ph.D.,**  
Dean, Faculty of Agriculture  
Annamalai University

#### Convenor

**Dr. S. NATARAJAN, Ph.D.,**  
Professor and Head  
Department of Agronomy  
Annamalai University

#### Organizing secretaries

**Dr. P. ANANDAN Ph.D.,**  
**Mr. K. P. SENTHIL KUMAR, M.Sc., (Agri.)**

Assistant Professors  
Department of Agronomy  
Faculty of Agriculture  
Annamalai University  
Annamalai Nagar - 608002  
Tamil Nadu, India.





### About the University

In the early 1920s Rajah Sir S. R. M. Annamalai Chettiar founded Sri Minakshi college, Sri Minakshi Tamil College and Sri Minakshi Sanskrit College at Chidambaram. In 1928, Rajah Sir S. R. M. Annamalai Chettiar agreed with the local Government to handover the above said institution for establishing a University. Thus, on 01.01.1929 Annamalai University was established as per Annamalai University Act 1928 (Tamil Nadu Act 1 of 1929).

One of the most significant developments is the enactment of the Annamalai University Act, 2013 (Tamil Nadu Act 20 of 2013), which has come into force from September 25, 2013. Annamalai University is accredited with 'A' Grade by NAAC in 2014. "The NIRF-2018" by the Ministry of Human Resource Development (MHRD) has ranked the University in the band **101 - 150** in the overall category as well as the University Category. In the Pharmacy Category the ranking is **20<sup>th</sup>** in India. In the Medical Category the ranking is **24<sup>th</sup>**. "The Times Higher Education World University Ranking - 2019" has ranked Annamalai University in **1000+** for Overall category. In the Subject category Ranking, 2019, the University is ranked in the band of **501-600** for Life Sciences and Pre-clinical, clinical & Health Subjects. **800+** in the Physical Sciences subject. "The QS World University Ranking - 2019" has ranked Annamalai University in the band of **291 - 300** in Asia Ranking, **174** in the BRICS Ranking and **43** in India Ranking. "The CWTS Leiden Ranking 2018", on scientific impact of universities and on universities' involvement in scientific collaboration & scientific performance, has ranked the University at **20<sup>th</sup>** based on the number of publications and **4<sup>th</sup>** based on the proportion of publications that, compared with other publications in the same field and in the same year, belong to the top 10% most frequently cited. "The MDRA - India Today Ranking" (2018) has ranked Annamalai University **13<sup>th</sup>** among the best Government Universities in India. Among the top **197** ranked institutions for Higher Education in India the "SCImago Institutional Ranking (2018)" has ranked Annamalai University as **7<sup>th</sup>** in Tamil Nadu and **32<sup>nd</sup>** in India.

Annamalai University is one of the largest unitary, teaching, and residential Universities in Southern Asia comprising of 10 Faculties and 49 departments of study. This University has played a pivotal role in providing access to higher education to thousands of youth cutting across the social spectrum, especially from economically and socially disadvantaged classes. In this respect, this University's service to the nation is tremendous.

### About The Faculty:

The Faculty of Agriculture started in the year 1958. The Faculty comprises nine departments and one division. The unique feature of this faculty is that it offers B.Sc. (Ag.) and B.Sc. (Horti.) programmes as under graduate courses, wherein all the nine departments and one division join hands and share the credit loads of the programmes as outlined by ICAR (Indian Council of Agricultural Research). Besides these two under graduate programmes, that are common for the faculty, individual departments offer post-graduate and Ph.D programmes independently. The research grants obtained by the faculty from UGC, DST, DBT, ICAR, NMPB, Ministry of coal, Environment and Forest and Water Resources etc., and budgetary provision from the university have added to an excellent infrastructural setup that facilitates cutting edge research in agriculture and horticulture. Teaching, Research and Extension activities, the three vital components for any agricultural institution, add significant value to the Faculty of Agriculture. The Faculty of Agriculture carries out extension activities like Agripreneurship Development Programme, Sustainable Livelihood Projects for Tsunami affected people and Training Farmers in Integrated Farming.

### About the Department

Department of Agronomy is one among the nine departments in the faculty of Agriculture. It was started as division in 1958 and upgraded as department in the year 1980. Post graduate programme in M.Sc., (Ag.) Agronomy was started in the year 1978 - 1979. So far the department has produced 525 MSc.(Ag.) Agronomy graduates, 74 Ph.D's and one D.Sc. The department has successfully completed many competitive research projects from various government and private funding agencies.

The Department have linkage and MOU's with industrial partners for curriculum design, internship, industrial tie-up, student projects, training programme, campus placement and collaborative R&D with IIRI - Philippines, NRCWS (Jabalpur), DBT GOI, IIBAT - Padappai, NIT-Trichy, Imtrade Commodities (India), Pvt. Ltd., Nagarjuna Fertilizer and Chemicals Pvt. Ltd., Netafim, M/s. Dow Agro Science, M/s. Bayer crop Sciences, M/s. BASF, M/s. Coromandel International Ltd., M/s. Sumitomo Chemicals India Pvt. Ltd., M/s. Ramicides Crop Science, M/s. Syngenta India Ltd., M/s. Privi life Science Pvt. Ltd., Pioneer Miyagi Ltd., JK Pharma chemical Ltd., TamilNadu and T-stanes and Co. Ltd. The department had collaboration with FAO, United Nations, IIRI, Institute for Arable Crops Research, Rothamsted Experimental Station, U.K., Natural Product Research Centre, USDA, USA. Cash prizes and certificates are given to meritorious students through several endowments.

### About Seminar

Climate change is emerging as a prominent issue in the world nowadays. The climate has changed, is changing and will continue to change regardless of what investments in mitigation are made. Climate change is a significant variation in weather patterns occurring over periods ranging from decades

to millions of years. Climatic change could affect agriculture in several ways: productivity, in terms of quantity and quality of crops; agricultural practices, through changes of irrigation and agricultural inputs such as herbicides, insecticides and fertilizers; environmental effects, particularly in relation to frequency and intensity of soil drainage (leading to nutrient leaching), soil erosion, reduction of crop diversity: rural space, through the loss and gain of cultivated lands, land speculation, land renunciation, and hydraulic amenities; adaptation, as organisms may become more or less competitive, such as flood-resistant or salt-resistant varieties. World agriculture faces a serious decline within this century due to global warming. Overall, agricultural productivity for the entire world is projected to decline between 3 and 16 per cent by 2080. Developing countries, many of which have average temperature that is already near or above crop tolerance levels, are predicted to suffer an average of 10-25 per cent decline in agricultural productivity by 2080. Since agriculture makes up roughly 16 per cent of India's GDP, a 4.5-9 per cent negative impact on production implies a cost of climate change to be roughly up to 1.5 per cent of GDP per year. To alleviate some of the complex challenges posed by climate change, agriculture (including forestry and fisheries) has to become "Climate Smart" that would sustainably increase agricultural productivity and income. Through the seminar, an attempt has been made to involve all the scientists working with crop production, climatology and related disciplines to fine tune suitable technologies for Climate Resilient Sustainable Agriculture.

### Focal themes

- Abiotic stress on crop production.
- Cropping system and farming system approach for climatic change.
- Biological tools for climate smart agriculture.
- Crop and soil health for sustainable agriculture.
- Climate change mitigation and adaptation.
- Climate change and plant protection measures.
- Indigenous technical knowledge practices for sustainable agriculture.
- Protected cultivation research and out come
- Crop and climatic models.

### Call for Papers

Invited lectures on the focal themes by lead scientists have been planned in addition to the contributed papers for oral and poster presentation in different sessions. Participants should send the abstract (not exceeding 250 words) and full paper (less than three pages) of their original research work in double line space (Times New Roman font 12 ) in A4 size paper (one side) along with a soft copy by email in Microsoft Word on or before 15.01.2019 to the contact address. For poster presentation size should be 90 cm x 120 cm.

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*Celebrating*  
**90 Years**

————— 1929 - 2019 —————

Faculty of Agriculture  
Department of Agronomy  
DST Sponsored National Seminar on  
CLIMATE RESILIENT TECHNOLOGIES  
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(CRTSA - 2019)

24<sup>th</sup> and 25<sup>th</sup> January 2019

Registration Form

Name (in Block letters) :

Designation :

Address :

Mobile No. :

E-mail :

Title of the paper :

Type of presentation : Oral / Poster

Accommodation required : Yes / No

If Yes, No. of members :

Details of Demand Draft :

Amount (Rs.) :

Bank and D.D. No. :

Expected date,  
time of arrival & mode of travel:

Date

Signature