Application Form for the Participation in ICAR Sponsored Winter School on “Livestock and Climate Change: Contributory Key Factors and Practical Strategies for Amelioration”
1-21 September 2017

1. Full Name (in block letters):
2. Designation:
3. Present Employer & Address:
4. Address for Correspondence phone, Fax, mobile, e-mail:
5. Permanent Address:
6. Date of Birth:
7. Sex (Male / Female):
8. Professional Experience & publications (last 5 years):
9. Marital status: (Married / Unmarried)
10. Mention if you have participated in any summer/winter/Short course during last 3 years
11. Demand draft (Rs 50/-) no_________ dated _________ in favour of “ICAR, UNIT NIANP”, payable at Bengaluru.
12. Academic records:

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<th>S.N.</th>
<th>Degree</th>
<th>Subject</th>
<th>Year</th>
<th>University/Institution</th>
<th>Division</th>
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<td>Bachelor</td>
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<td>Others</td>
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Date: ____________________________
Place: ____________________________
Signature of the Applicant

13. Recommendation of forwarding institution
   Signature
   Designation
   Address

Certificate
This is to certify that the information furnished by the applicant was Checked with office records and found correct.

Signature
Designation of the Sponsoring Authority

Contact for further information
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Mob: +91 9740726121

Important Dates
Last date for receipt of application: 24 July 2017
Intimation to selected candidates: 30 July 2017
Confirmation by selected candidates: 10 August 2017
ARIS cell and a state of the art fully air conditioned excellent infrastructure including air-conditioned lecture hall, winter school. Apart from these laboratories, the institute has Stress physiology, Omics, Nutrient Kinetics and Integrative influencing the productive and reproductive efficiency. The state of the art laboratories namely Energy Metabolism, Stress physiology, Omics, Nutrient Kinetics and Integrative physiology will be used for training purpose under proposed winter school. Apart from these laboratories, the institute has excellent infrastructure including air-conditioned lecture hall, ARIS cell and a state of the art fully air conditioned auditorium.

About ICAR-NIANP

ICAR-National Institute of Animal Nutrition and Physiology (NIANP), Bengaluru is a premier research institute conducting research and imparting education/training in the field of Animal Nutrition and Physiology. The institute is mandated to conduct basic and fundamental research with respect to animal feed resource management using physiological-nutritional approaches to improve animal productivity and profitability of livestock farmers. Within this mandate various research activities are being conducted to unravel basic principle influencing the productive and reproductive efficiency. The state of the art laboratories namely Energy Metabolism, Stress physiology, Omics, Nutrient Kinetics and Integrative physiology will be used for training purpose under proposed winter school. Apart from these laboratories, the institute has excellent infrastructure including air-conditioned lecture hall, ARIS cell and a state of the art fully air conditioned auditorium.

About training

The multi-fold challenges before the animal researcher is to ensure symmetry among livestock population, feed and fodders availability, livestock health and productivity in order to satisfy the need of ever increasing populace. Climate change is one of the challenges threatening the ecosystem balance, food security, water resources and economic stability of poorest. Livestock production and climate change are inter-related and hooked through a complex mechanism where instability in one sector adversely affects another one. Intensive livestock farming on the part of fulfilling increasing requirement, land degradation, deforestation and greenhouse gases (GHGs) emission are few of important factors that speed up climate change which in turn exasperate the adverse impacts on livestock production. The importance of enteric methane emission from livestock is much more than their contribution to global warming as its emission represents a loss of dietary energy too. This is significant in tropical regions such as India, where dietary energy is a critical nutrient. Animal excrement is also accountable for GHGs (CH₄ & N₂O) emission, adding up reactive N to atmosphere, and water quality impairment due to excess P from excrement.

In vulnerable countries such as India, climate change will have severe adverse impact on livestock production by affecting the feed & fodder resources availability, feed composition, availability of drinking water, animal’s inhabiting eco system (biotic and abiotic stress), emergence of new diseases, extinction of animal genetic resources, reproductive efficiency etc. This winter school has been designed for the researcher & academicians of the country to refresh their knowledge and provide comprehensive, compact and up-to-date information on livestock production to cope up with crucial climate change issue.

Course content

- International agreement on climate change
- GHG emissions from animal-agriculture
- Impact of climate change on feed resources, production and reproduction
- Uncertainties in GHG quantification from animal-agriculture
- Advance methodologies for enteric methane measurement
- Ameliorative measures for minimizing GHG emission from excrement
- Amelioration approaches for reducing enteric methane emission
- Models for predicting greenhouse gas emission from animal farm
- Abiotic stress and ameliorative measures
- Nutritional stress and corrective measures
- Isolation and culturing of rumen microbes including methanogens
- Molecular methods to explore rumen archea microbial diversity

Eligibility

The participants should possess minimum Master Degree in Animal Nutrition, Animal Physiology, Animal Breeding, Livestock production and management or other relevant disciplines of veterinary sciences. The applicant should be

Application and selection

The candidates should apply online as given below:

1. Visit the website http://www.iasri.res.in/cbp/ or click on Capacity Building Program link under http://www.icar.org.in
2. Login using User ID & Password. To create User ID use “Create New Account” link.
3. After login, click on “participate in training” link and fill the proforma. Take a printout and send duly signed copy through proper channel to the Course Director by post, along with DD/postal order for Rs. 50/- only (non-refundable) drawn in the favour of “ICAR Unit-NIANP, Bengaluru”

Alternatively, duly forwarded application along with a Postal order/Demand draft of Rs. 50/- (non-refundable) Drawn in favor of “ICAR Unit-NIANP” should be sent to the course director. The last date for receiving application/Nomination is 24 July 2017. The selected candidates will be intimated on or before 30 July 2017 either by Fax/Speed post/E-mail. The candidates will have to confirm their participation latest by 10 August 2017

Travel

The participants will be paid actual fare restricted to AC III for attending the winter school. The fare will be reimbursed for the shortest route on producing the original receipt/ticket.

Boarding and Lodging

Free boarding and lodging will be provided to the participants of winter school in the institute guest house on sharing basis. Local participants will be provided lunch and inter-sessional tea. No accompanying person will be entertained.

Weather

Bengaluru city also known as Silicon Valley is located on the Deccan Plateau in the South Eastern of Karnataka. The weather generally pleasant during September with average temperature 25 degree celsius. The city also experience sporadic showers in September. The participants are advised to carry lightwollen clothes for the protection from sudden fall in temperature.

How to Reach NIANP

NIANP is located in the heart of the city. The campus is 8 km from city railway/bus station, 15 km from Yeshwanthrop railway station, 40 km from airport. Pre-paid taxi/auto can be availed at railway/bus station to reach ICAR-NIANP, Audogodi, Bengaluru (Land mark: Opposite to MICO-BOSCH on Hosur road).