

**PROCEEDINGS OF THE 8TH BRAIN STORMING SESSION
ON**

**“Expectations from Agricultural Universities,
Challenges and Mitigation Strategies”**

HELD AT ITC-SONAR KOLKATA

DURING 19TH TO 20TH AUGUST, 2017



INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION (IAUA)

Golden Jubilee Year (1967-2017)



Organized by :

WEST BENGAL UNIVERSITY OF ANIMAL & FISHERY SCIENCES, KOLKATA

INDEX

Sl.No.	Content	Page Number
1	Cover Page 1	2
2	Cover Page 2	3
3	Main recommendations	4-5
4	List of Organizing Committee Members	6
5	Details of Rapporteurs	7
6	Photographs of Inaugural Session, Technical Sessions, Plenary Session & Valedictory Programme	8-21
7	Approved Technical Programme	22-26
8	List of Vice Chancellors & other dignitaries who attended the Programme	27-28

PROCEEDINGS OF THE 8TH BRAIN STORMING SESSION ON
"Expectations from Agricultural Universities, Challenges and Mitigation Strategies"

HELD AT ITC-SONAR KOLKATA
DURING 19TH TO 20TH AUGUST, 2017



INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION (IAUA)
Golden Jubilee Year (1967-2017)



8th Brain Storming Session

On

"Expectations from Agricultural Universities, Challenges and Mitigation Strategies"

Sponsored by

INDIAN AGRICULTURAL UNIVERSITIES ASSOCIATION (IAUA)

&

Organized by

WEST BENGAL UNIVERSITY OF ANIMAL & FISHERY SCIENCES, KOLKATA

ON

19 -20th August, 2017,

AT

Hotel ITC-Sonar, Kolkata

RECOMMENDATIONS

- A statutory Council like Veterinary Council of India for maintaining & improving the Standard of agricultural education is needed to be established. Agricultural Universities require introducing subjects like Actuary, Crop Insurance, Land and land use survey matters.
- Possibility of introduction of Integrated UG-PG Courses and reservation of 40% seats in Agricultural Colleges for candidates from rural areas may be explored.
- Quality of education on agriculture and allied sciences in Private Colleges is to be assured. Private colleges to be brought under the ambit of the established Agricultural Universities. Exchange of Faculties between the universities and training of young teachers at NAARM should be introduced compulsorily.
- KVK exclusively for Animal Husbandry and Veterinary Sciences is needed to be established and in the existing KVKs, more Scientists from Animal Science/Poultry Science and Fishery Science to be inducted along with agricultural scientists In KVKs.
- Vertical Farming and Farm Villa with appropriate mixture of fish, poultry, small animals along with fodder cultivation may be adopted in the KVKs. Connect and integrate agriculture with fisheries to augment the income of farmers. The Farmers should be trained for applying new technology.
- “Krishi Mela”(Agricultural Fair) and “Mati Utsav” is conducted every year by the Govt. of West Bengal to help farmers in updating their knowledge on agriculture, which may be adopted in other States.
- Identification of elements responsible for climate change and its mitigation for sustenance of agricultural production in the country. Identification of Stress and disease problems associated with increased productivity due to Intensification in livestock, poultry and fish production and their mitigations.

- Coordination between Government and Agriculture and allied industries required for employment generation of graduates in the respective disciplines. University should be made partner in the development process of the agriculture and allied sectors.
- The inclusion of negative marking in the scoring system in case of plagiarism in the assessment of scientists/university teachers. E-Learning process should be developed and proper linkage between the University and UGC Governing body should be set up. E-extension may be introduced in various local languages for proper understanding and benefit of the farmers.
- Agricultural Universities are required to introduce subjects like Actuary, Crop Insurance, Land and Land Use Survey matters.
- The focus of Universities on IPR should be- (i) Encouragement of patenting only when it has commercial value; (ii) Awareness on Copyright infringements; (iii) to ensure ethics in research and prevention of plagiarism in publications; (iv) to provide thrust to bring plant and animal products under Geographical Identification(G.I.); (v) to approach Government to enforce a separate Act to protect plant and animal breeds and rights of breeders; and (vi) Validation of ethno-veterinary and plant based products to protect and popularize traditional knowledge.
- To identify stress tolerance level for different animals and adoption of proper mitigation strategies particularly through use of nutraceuticals and better management practices to enhance growth and reduce mortality.

LIST OF MEMBERS OF THE ORGANIZING COMMITTEE

Prof. Purnendu Biswas, Vice Chancellor	- Chairman
Prof. Shyam Sundar Dana, Registrar	- Member
Prof. Nilotpal Ghosh, Dean(VAS)	-do-
Prof. Bipul Kr. Das, Dean(FFSc.)	-do-
Prof. T K Maity, Dean(DT)	-do-
Prof. Arunashis Goswami, DREF	-do-
Prof. M K Mandal, C.O.E.	-do-
Prof. S Batabyal, DSW	-do-
Prof. Pradip Das	-do-
Prof. Partha Das	-do-
Sri Arijit Saha, F.O.	-do-
Sri A K Chakraborty, Secretary(FC)	-do-
Dr. Supratim Chowdhury	-do-
Dr. Apratim Maity	-do-
Dr.(Smt.) Lopamudra Halder	-do-
Dr. Sourav Chandra, Dy. Registrar	-do-

DETAILS OF RAPORTEURS

1. Prof. K. C. Dora, Former Dean, Faculty of Fishery Sciences, WBUAFS
2. Prof. T.K. Mondal, Former Dean, Faculty of Veterinary & Animal Sciences, WBUAFS.
3. Prof. S. Biswas, Deptt. of LPT, Faculty of VAS, WBUAFS.
4. Prof. T.J. Abraham, Deptt. of Aquatic Animal Health, Faculty of Fishery Sciences, WBUAFS.
5. Prof. M. K. Mandal, Controller of Examinations, WBUAFS
6. Prof. S. Batabyal, Dean Students Welfare, WBUAFS.
7. Prof. T.K. Maity, Dean, Faculty of Dairy Technology, WBUAFS
8. Prof. Nilotpal Ghosh, Dean, Faculty of Veterinary & Animal Sciences, WBUAFS.



Inauguration of the 8th Brain Storming Session. National Anthem is being played.



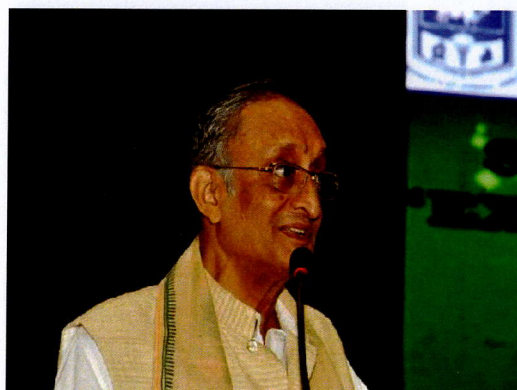
A group of Photograph of the IAUA Officials and the attending Vice Chancellors



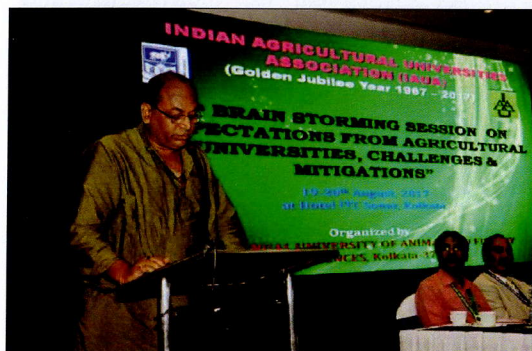
Inauguration of the 8th Brain Storming Session by Dr. Amit Mitra, Hon'ble MIC, Deptt. of Finance, Govt. of West Bengal alongwith Sri Purnendu Basu, Hon'ble MIC, Deptt. of Agriculture, Sri Chandra Nath Sinha, Hon'ble MIC, Deptt. of Fisheries, Govt. of West Bengal in presence of Dr. K M Bujarbaruah, President, IAUA and Prof. Purnendu Biswas, Vice Chancellor, WBUAFS



Prof. Purnendu Biswas, Vice Chancellor, West Bengal University of Animal & Fishery Sciences, Kolkata delivering the Welcome address



Dr. Amit Mitra, Hon'ble MIC, Deptt. of Finance, Govt. of West Bengal & Chief Guest, addressing the Inaugural function



Sri Chandra Nath Sinha, Hon'ble MIC, Deptt. of Fisheries, Govt. of West Bengal addressing the gathering in the Inaugural Programme



Sri Purnendu Basu, Hon'ble MIC, Deptt. of Agriculture, Govt. of West Bengal addressing the gathering in the Inaugural programme



Dr. Sanjeev Chopra, IAS, Addl. Chief Secretary, Deptt. of Agriculture, Govt. of West Bengal delivers his address during the Inaugural Session



Dr. K M Bujarbaruah, President, IAUA delivering his Presidential address

Technical Session-I

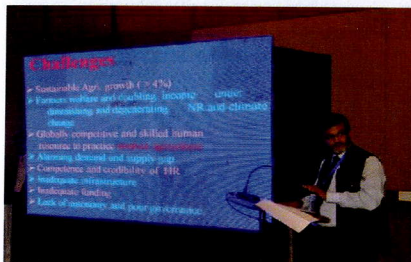
Sub Theme : Higher Education in Agricultural Universities: Challenges and Way forward



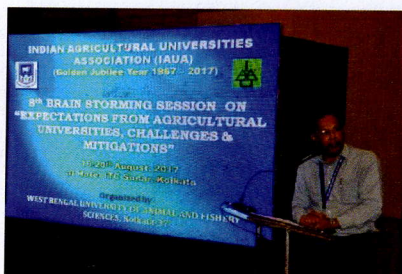
**Dr. N S Rathore, DDG(Education), ICAR
Chairing the 1st Technical Session**



**Prof. Akhtar Haseeb, VC, NDUAT & Prof. S N Pashupalak, VC, OUAT
Co-Chairpersons of 1st Tech. Session**



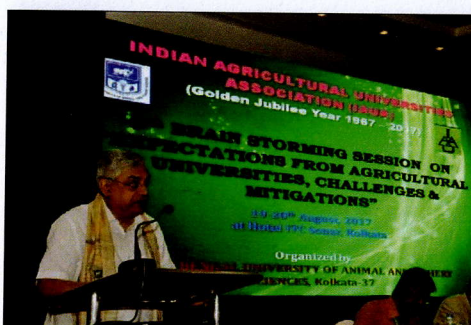
**Prof. A K Mishra, Vice Chancellor,
Maharashtra Animal & Fishery
Sciences University, Nagpur**



**Prof. Akhtar Haseeb, VC, NDUAT &
Faizabad delivering lecture as
Co-Chairperson**



**Prof. P K Sharma, VC, SKUA&T, Jammu
Co-Chairperson along with Dr. N S Rathore
DDG(Edn.),ICAR and Rapporteurs**



**Sri Pradip Mazumdar, Advisor to Hon'ble
CM, W. Bengal making presentation**

Technical Session-II:

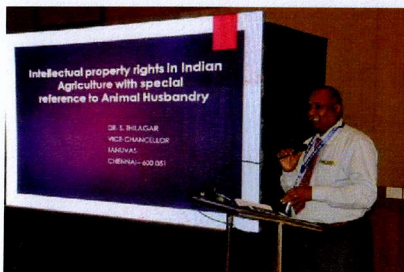
Sub Theme: "Research in Agricultural Universities: Challenges & Mitigation Strategies"



**Prof. Arvind Kumar, VC, RLBCAU,
Jhansi & Prof. A K Mishra, VC, MAFSU,
Nagpur as Chairperson & Co-Chairperson
of Technical Session-II**



**Chairman & Co-chairman alongwith
Rapporteurs**



**Prof. S Thilagar, VC, TANUVAS
making presentation**



**Dr. Gopal Krishna, Director, CIFE,
Mumbai making presentation**



**Prof. J M Nedagundi, UAS, Raichur
delivering lecture**

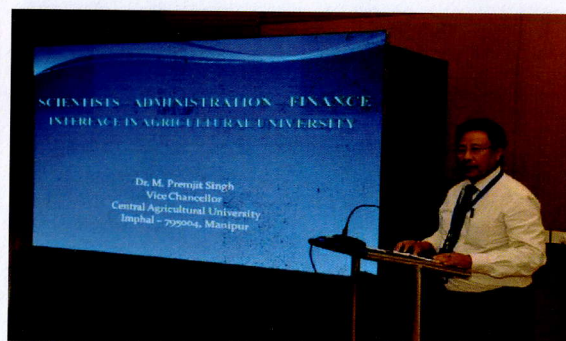
Technical Session III & IV (Combined)

Sub-Themes:

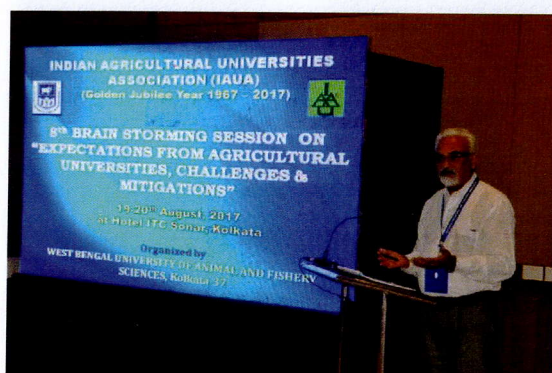
- **Problems of Universities**
- **Extension in Agricultural Universities: Status & Future Challenges**
- **Governance in Agricultural Universities: Management strategies**



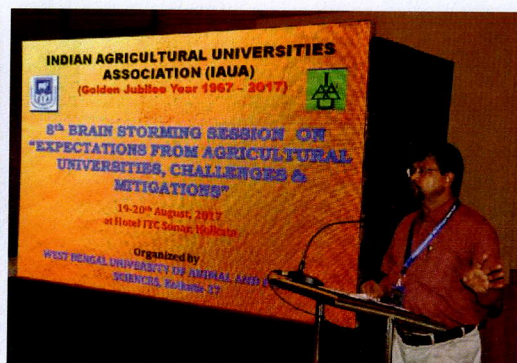
**Dr. N C Patel, VC, AAU, Anand, Chairperson &
Dr. K Ramaswamy, VC, TNAU, Coimbatore and
Dr. A S Nanda, VC, GADVASU, Ludhiana as
Co-chairpersons**



**Dr. M Premjit Singh, VC, CAU, Imphal making his
presentation**



Dr. P K Sharma, VC, SKUAT, Jammu delivering his lecture



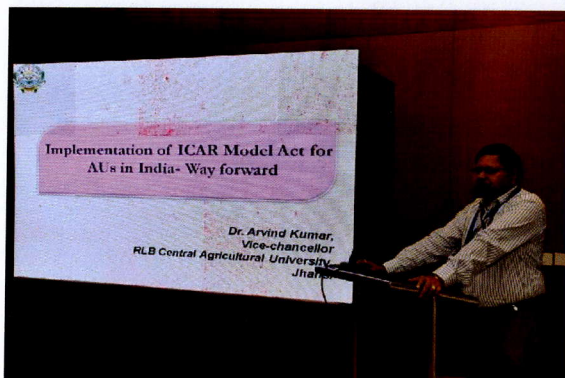
Dr. D D Patra, VC, BCKV, Mohanpur delivering his lecture



Dr. Tapas Bhattacharya, VC, Dr. B S K K V, Dapoli Delivering lecture



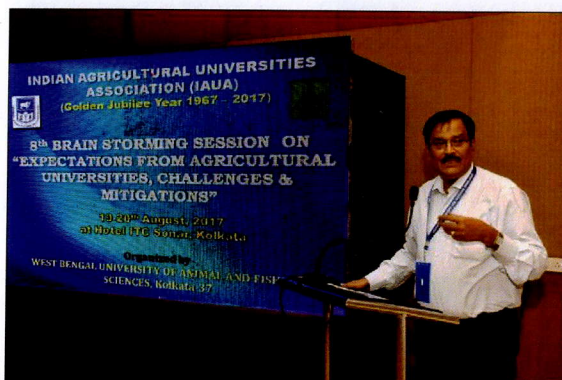
Dr. Parvinder Kaushal, VC, BAU, Ranchi joined the deliberations as a Panelist



Dr. Arvind Kumar, VC, RLB CAU, Jhansi making his presentation



Dr. A S Nanda, VC, GADVSU, Ludhiana delivering his lecture as Co-chairperson



Dr. Ajoy Kumar Singh, VC, BAU, Sabour joined the deliberation as a Panelist



Sri B P Gopalika, IAS, Principal Secretary, Deptt. of ARD, Govt. of West Bengal delivers his address

Plenary Session & Valedictory Function on 20.08.2017



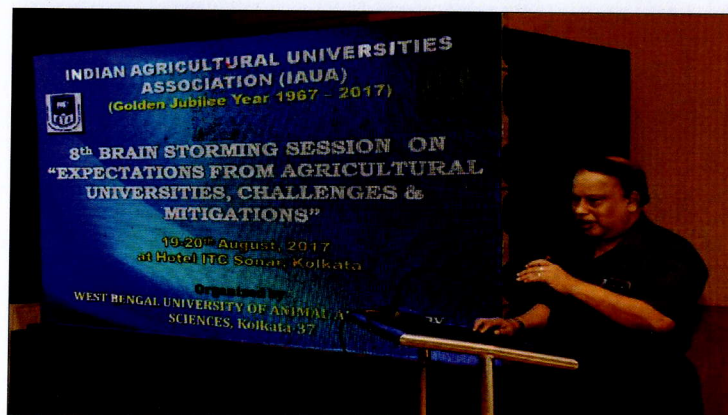
**Dr. K M Bujarbaruah, VC, AAU & President, IAUA along-
Dr. R P Singh, Executive Secretary, IAUA, Prof. P Biswas,
VC, WBUAFS, Dr. N C Patel, VC, AAU, Anand & Vice
Chairman, IAUA and other dignitaries**



**Dr. R P Singh, Executive IAUA delivering
his address during the Plenary Session**



**Prof. Purnendu Biswas, Vice Chancellor, WBUAFS
addressing the delegates in the Plenary Session**



**Dr. K M Bujarbaruah, VC, AAU & President, IAUA
Delivering his Valedictory address**

APPROVED TECHNICAL PROGRAMME
Of the 8th Brain Storming Session on Agriculture and
Vice-Chancellors' Conference

19.08.2017 at ITC Sonar Kolkata (PALA Banquet)

Inaugural Session (9:30 am to 2:00 pm)

SN	Particulars	Time
1	Registration at Pre function area – PALA Banquet	9:30 am
2	Felicitation of Vice-Chancellors	10:00 am
3	Group Photo Session at PALA Banquet	10:30 am
4	Arrival of Ministers & other Dignitaries	10:55 am
5	Lighting of Lamp by Dr. Amit Mitra, Hon'ble MIC of Finance, Industries etc, Govt of WB	11:00 am
6	Inaugural Song	11:01 am to 11:05am
7	Felicitation of Dignitaries on the Dais	11:05am to 11:10am
8	Welcome address by Prof. P. Biswas, V.C., WBUAFS	11:10 am to 11:20 am
9	Inaugural Speech by the Chief Guest, Dr. Amit Mitra, Hon'ble MIC of Finance, Industries etc, Govt of WB	11:20 am to 11:40 am
10	Speech by Guest of Honour, Shri Purnendu Basu, Hon'ble, MIC, Agriculture, Govt. of WB	11:40 am to 11:50 am
11	Speech by Guest of Honour, Shri Chandranath Sinha, Hon'ble, MIC, Fisheries, Govt. of WB	11:50am to 12:00noon
12	Speech by Guest of Honour, Shri Swapan Debnath, Hon'ble MoS (I.C.), ARD, Govt. of WB	12:00 noon to 12:10pm
13	Speech by Guest of Honour, Dr. N. S. Rathore, DDG(Edn), ICAR	12:10pm to 12:25pm
14	Speech by Guest of Honour, Sri Pradip Majumder, Advisor to the Hon'ble C.M. of West Bengal	12:25pm to 12:35pm
15	Speech by Guest of Honour, Shri Sanjeev Chopra, Additional Chief Secretary to the Govt. of W.B., Deptt. of Agriculture	12:35pm to 12:45pm
16	Speech by Guest of Honour, Shri B. P. Gopalika, Principal Secretary to the Govt. of W.B., Deptt. of ARD	12:45pm to 12:55pm
17	Speech by Guest of Honour, Shri Sunil Gupta, Principal Secretary to the Govt. of W.B., Deptt. of Fisheries	12:55pm to 1:05pm

18	Speech by Dr. N. C. Patel, Vice- President, IAUA & VC, AAU, Anand	1:05pm to 1:15pm
19	Speech by Dr. R. P. Singh, Executive Secretary, IAUA	1:15pm to 1:25pm
20	Presidential Address by Dr. K. M. Bujarbaruah, President, IAUA & VC, AAU, Jorhat	1:25pm to 1:40pm
21	Vote of Thanks by Prof. S. S. Dana, Registrar, WBUAFS	1:40pm to 1:45pm
22	National Anthem	1:45pm to 1:48pm
23	Lunch Break	2:00 pm to 3:00 pm

TECHNICAL SESSION- I (3:00 pm to 3:45 pm)

Sub Theme:

Higher Education in Agricultural Universities: Challenges and Way forward

Chairperson	Dr N.S. Rathore, DDG (Edn), ICAR
Co-Chairpersons	1. Dr. P.K. Sharma, VC, SKUAST, Jammu 2. Prof. Akhtar Haseeb, VC, NDUAT, Faizabad
Time	Topics and Presenters
3:00pm to 3:45 pm	<ul style="list-style-type: none"> • Quality assurance in higher agricultural education in India- Challenges and Mitigation Strategies: Prof. A.K. Mishra, VC, MAFSU, Nagpur • Contribution of Universities in the Development of Agriculture and allied sectors in West Bengal during last 5 years. Sri Pradip Majumder, Adviser on Agriculture to the Hon'ble C.M. of W.B
Rapporteurs	1. Prof. K. C. Dora, Former Dean, Faculty of Fishery Sciences, WBUAFS 2. Prof. T.K. Mondal, Former Dean, Faculty of Veterinary & Animal Sciences, WBUAFS.
Panelists	1. Prof. Surendranath Pasupalak, VC, OUAT, Bhubaneswar 2. Dr Gurdial Singh, VC, LUVAS, Hisar 3. Dr R.V. Prasad, VC, KVAFSU, Bidar 4. Dr Y. Hari Babu, VC, SVVU, Tirupati

TECHNICAL SESSION- II (3:45 pm to 4:45 pm)

Sub Theme:

Research in Agricultural Universities: Challenges and Mitigation Strategies

Chairperson	<i>Dr. Arvind Kumar, V.C., RLBCAU, Jhansi</i>
Co-Chairpersons	1. <i>Dr. S.K. Patil, VC, IGKV, Raipur</i> 2. <i>Dr. A.K. Mishra, VC, MAFSU, Nagpur</i>
Time	Topics and Presenters
3:45 pm to 4:45 pm	<ul style="list-style-type: none">• Intellectual property rights in Indian Agriculture with special reference to Animal Husbandry & Fishery Sciences: <i>Dr. S. Thilagar, VC, TANUVAS.</i>• Biotic stress and mitigation strategy in Animal husbandry and Fisheries: <i>Dr. Gopal Krishna, Director and VC, CIFE, Mumbai.</i>• Biodiversity conservation and management : <i>Dr. J Mohan Nedagundi, Professor, Plant Genetics & Breeding, UAS, Raichur.</i>
Rapporteurs	1. <i>Prof. S. Biswas, Deptt. of LPT, Faculty of VAS, WBUAFS.</i> 2. <i>Prof. T.J. Abraham, Deptt. of Aquatic Animal Health, Faculty of Fishery Sciences, WBUAFS.</i>
Panelists	1. <i>Dr. K. Ramaswamy, VC, TNAU, Coimbatore</i> 2. <i>Prof. Uma Shankar Sharma, VC, MPUAT, Udaipur</i> 3. <i>Dr. D.D. Patra, VC, BCKVV, Mohanpur</i> 4. <i>Shri. B. Raja Shekhar, IAS, VC, ANGRAU, Hyderabad</i>

5:00 pm to 7:30pm	River Cruise
--------------------------	---------------------

**8th Brain Storming Session on Agriculture and
Vice-Chancellors' Conference
20.08.2017 at ITC Sonar Kolkata (Conference Room)**

TECHNICAL SESSION- III (10:00 am to 11:00 am)

**Sub Theme:
Problems of the Universities**

Chairperson	Dr K.M. Bujarbaruah, VC, AAU, Jorhat & President, IAUA
--------------------	---

TECHNICAL SESSION- IV (11:00 am to 12:45 pm)

**Sub Themes:
Extension in Agricultural Universities: Status & future challenges
&
Governance in Agricultural Universities: Management Strategies**

Chairperson	<i>Dr N.C. Patel, VC, AAU, Anand</i>
Co-Chairpersons	1. <i>Dr K. Ramaswamy, VC, TNAU, Coimbatore</i> 2. <i>Dr A.S. Nanda, VC, GADVASU, Ludhiana</i>
Time	Topics and Presenters
11:00 am to 12:45 pm	<ul style="list-style-type: none"> • E-extension services in Indian Agriculture: Challenges & Management Strategies: <i>Dr T. Bhattacharya, VC, DBSKKV, Dapoli</i> • Doubling farmers income- A model for hilly & mountainous region: <i>Dr Ashok Kumar Sarial, VC, CSKHPKV, Palampur</i> • E Scientists- administration-Finance interface in Agricultural Universities: <i>Dr M. Premjit Singh, VC, CAU, Imphal i</i> • Implementation of ICAR model act: Status and Challenges: <i>Dr Arvind Kumar, VC, RLBCAU, Jhansi Quality assurance in private Agricultural educational institutions: Dr. S.K. Patil, VC, IGKV, Raipur</i>
Rapporteurs	1. <i>Dr. M. K. Mandal, Controller of Examinations, WBUAFS</i> 2. <i>Prof. S. Batabyal, Dean Students Welfare, WBUAFS.</i>

Panelists	1. Dr A.S. Nanda, VC, GADVASU, Ludhiana 2. Prof. Akhtar Haseeb, VC, NDUAT, Faizabad 3. Dr Praveen Singh Rathor, VC, SKNAU, Jobner 4. Dr K.P. Singh, VC, CCSHAU, Hisar 5. Dr H.C. Sharma, VC, DYSPUHF, Nauni 6. Dr S. Solomon, VC, CSAUAT, Kanpur 7. Dr Parvinder Kaushal, VC, BAU, Ranchi 8. Dr G.L. Keshwa, VC, AU, Kota 1. Dr C.J. Dangaria, VC, NAU, Navsari 2. Dr Ajoy Kumar Singh, VC, BAU, Sabour 3. Dr R.C. Srivastava, VC, DRPCA, Pusa 4. Dr C. Chattopadhyay, VC, UBKV, Coochbehar 5. Prof. (Dr) Ashok Kumar Sarial, VC, CSKHPKV, Palampur 9. Dr S. Felix, VC, TNFU, Nagapattinam
-----------	---

Presentation of Sponsors & Others (12:45 pm to 1:00 pm)

Special Session

12:45 pm to 12:50 pm	Presentation by Radha - Smart Series, Bangaluru
12:50 pm to 12:55 pm	Presentation of Shalimar Groups
12:55 pm to 1:00 pm	Presentation of Virbac

Plenary Session & Valedictory Function (1:00 pm to 1:30pm)

Chairperson	1. Dr K.M. Bujarbaruah, VC, AAU, Jorhat & President, IAUA
Co-Chairpersons	1. Dr N.C. Patel, VC, AAU, Anand & Vice-President, IAUA 2. Prof. Purnendu Biswas, VC, WBUAFS. 3. Dr R.P. Singh, Executive Secretary, IAUA, New Delhi
Rapporteurs	1. Prof. T.K. Maity, Dean, Faculty of Dairy Technology, WBUAFS. 2. Prof. Nilotpal Ghosh, Dean, Faculty of Veterinary & Animal Sciences, WBUAFS.
Participation	All Vice-Chancellors of Member Universities of IAUA
Items	Presentations of recommendations of each session by Rapporteurs.
1:30 pm to 3:00pm	Lunch

**LIST OF VICE-CHANCELLORS AND OTHER DIGNATORIES PRESENT DURING THE 8TH BRAIN STORMING
SESSION ON AGRICULTURE DURING 19-20th AUGUST, 2017**

Sl No	Name of the Vice-Chancellor	University
1	Dr. A K Misra	MAFSU, Nagpur, Maharashtra
2	Dr. P. Biswas	WBUAFS, Kolkata, WB
3	Dr. D. D. Patra	BCKV, Mohanpur, Nadia
4	Dr. S.K. Patil	IGAU, Raipur, Chhattisgarh
5	Dr. Akhtar Haseeb	NDUA&T, Faizabad, UP
6	Dr. N. C. Patel	AAU, Anand, Gujrat
7	Prof. P. Rajendran	KAU, Kerala
8	Prof. M. Premjit Singh	CAU, Imphal
9	Dr. Gurdial Singh	LLRUVAS, Hisar, Haryana
10	Dr. S. Felix	TNFU, Nagapattinam, TN
11	Dr. C. J. Dangaria	NAU, Navsari, Gujrat
12	Prof. S. Thilagar	TANUVAS, Channei
13	Dr. Y Hari Babu	SVVU, Tirupati, AP
14	Dr. K.M Bujarbaruah	AAU, Jorhat, Assam
15	Dr. H. C. Sharma	YSUHorti. Fort., Nauni, H.P.
16	Dr. Pradeep Kr Sharma	Sher-Kashmir, Jammu
17	Prof. S. Pasupalak	OUAT, Bhubaneswar
18	Dr. A S Nanda	GADVASU, Ludhiana
19	Dr. Arvind Kumar	RLBCAU, Jhansi
20	Dr. Sushil Solomon	CSAUA&T, Kanpur, UP
21	Dr. R C Srivastava	DRPCA, Pusa, Bihar
22	Dr. U S Sharma	MPUAT, Udaipur, Rajasthan
23	Dr. Tapas Bhattacharyya	DBSKKV, Dapoli, Maharashtra
24	Dr. R V Prasad	KVAFSU, Bidar
25	Dr. V Damodara Naidu	ANGRAU, Guntur, Hyderabad
26	Dr. P S Rathore	SKNAU, Jobner, Rajasthan
27	Dr. G. L. Keshwa	AU, Kota, Rajasthan
28	Prof. A. K. Sarial	CSKHPKV, Palampur, H.P.
29	Prof. A. K. Singh	BAU, Sabour, Bihar

30	Dr. K P Singh	CCSHAU, Hisar, Haryana
31	Dr K Ramasamy	TNAU, Coimbatore, TN
32	Dr. Parvinder Kaushal	BAU, Kanke, Jharkhand
33	Dr. C Chattopadhyay	UBKV, Coochbihar, WB
34	Dr. Gopal Krishna	Director, CIFE, Mumbai
35	Dr. P. Narayanaswanya	UA&Horti, Karnataka
Representatives of Vice-Chancellors		
35	Dr. J Mohan Nidagundi	UAS, Raichur, Karnataka
36	Dr. Neelam Grewal	PAU, Punjab
37	Dr Shakeel Ahmed Wani	Dierector Edn, SKUA&T
Dignatories Other than Vice-Chancellors		
38	Dr. N S Rathore	DDG(End), ICAR
39	Dr. R. P. Singh	Executive Secretary, IAUA

