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Editor: Prof. Dr. R.N. Kohli

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

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NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

(Registered with the Registrar of Societies vide Regn. certificate No.S-2/4471 of 1993 dated 7th July 1993)

NEW DELHI NAVS NEWSLETTER JANUARY, 2019

We wish our readers a very happy new year 2019

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CH. 1: NAVS GENERAL INFORMATION

1.1: Governing Council (2017- 2019)

Office Bearers



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Chairman and Managing Director
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MEMBERS ELECTED

Dr. B.N. Tripathi, Hisar: bntripathi1@yahoo.co.in
Dr. Sanjeev Kumar, Izatnagar: skgcari@yahoo.co.uk
Dr. Minakshi Prasad, Hisar: minakshi.abt@gmail.com
Dr. S.K. Srivastava, Izatnagar: sksrivastava1093@gmail.com
Maj. Gen. Dr. M. L. Sharma, Delhi: sharmaml@thebrookeindia.org
Dr. Ravindra Sharma, Hisar: rsharma698@gmail.com
Dr. V.D.P. Rao, Vijaywada: raovdp@rediffmail.com
Col. Dr. R. P. Garg, VSM, NCR, Noida, U.P.: email ID not available
Dr. S.N. Singh, Bangalore: snsingh.2006@gmail.com
Dr. S.K. Saha, Izatnagar: subodhksaha@yahoo.com
Dr. A.B. Mandal, Izatnagar: drab.mandal@gmail.com
Dr. S.S. Randhawa, Ludhiana: sarnarinder@gmail.com
Dr. Mandeep Sharma, Palampur: mandeepsharma289@hotmail.com
Dr. P. N. Khanna, Delhi: pran_khanna@rediffmail.com
Dr. S. K. Tiwari, Durg: drtiwarisurgery@gmail.com

PERMANENT EX-OFFICIO MEMBERS

Incumbents holding following Official Govt. of India Positions are permanent Ex-Officio members: DG RVS; DDG (A.S.), ICAR; AHC (GOI); and President VCI

1.2: INSTITUTIONAL/CORPORATE LIFE MEMBERS

INSTITUTIONAL LIFE MEMBERS

LUVAS (Lala Lajpat Rai University of Veterinary & Animal Sciences), Hisar, Haryana.
CKVU (Chattisgarh Kamdhenu Veterinary University), Raipur / Durg, Chattisgarh.
MAFSU (Maharashtra Animal & Fisheries Sciences University), Nagpur, Maharashtra
RAJUVAS (Rajasthan University of Veterinary & Animal Sciences), Bikaner, Rajasthan
DUVASU (Deen Dayal Upadhadhaya Veterinary and Animal Sciences University, Mathura, U.P.
KCVAS (Khalsa College of Veterinary & Animal Sciences), Amritsar, Punjab
Sri Venkateshwara Veterinary University, Tirupati, A.P.
Kamdhenu University, Gandhinagar-382010, Gujrat
Bihar Animal Sciences University, Patna (Bihar)

**CORPORATE LIFE MEMBERS
M/S Indian Herbs, Saharanpur
M/S Ayurved Limited**

1.3: PAST OFFICE BEARERS OF THE ACADEMY

Presidents:

- * Dr. C.M. Singh - 1993 - 2004 (Founder President)
- Dr. S.K. Ranjhan - 2004-2007
- Dr. S.C. Adlakha - 1/7/2007 - 28-2-2008
- Dr. R.R. Shukla - 28/2/2008 - 31/10/2010
- Dr. M.P. Yadav - 31/10/2010 - 31/12/2013
- Dr. K.M.L. Pathak 1/1/2014 - 22/4/2017

Vice-Presidents:

- *Dr. R.P.S. Tyagi -1993 - 2004
- Col. (Dr.) V.K. Bhatnagar- 2004-2007
- Dr. R.R. Shukla - 1/7/2007 - 28-2-2008
- Dr. P.N. Khanna - 28-2-2008 - 31/10/ 2010
- Col. (Dr.) V.K. Bhatnagar- 31/10/2010 - 31/12/2013
- Maj. Gen. (Dr.) Shri Kant Sharma 1/1/2014 - 22/4/2017

Secretary Generals:

- Dr. P.N. Bhatt -1993 - 2004
- * Dr. K.L. Sahani -2004-2007
- * Dr. B.S. Nanda - 1/7/2007 - 23-5-2008
- Dr. N.N. Pathak - 23-5-2008 - 6/7/2009
- Dr. R.N. Kohli - 6/7/2009 - 31/10/2010
- Dr. Gaya Prasad - 31/10/2010 - 31/12/2013
- Dr. Rishendra Verma - 1/1/2014 - 22/4/2017

Treasurers:

- Dr. A. Ahmad and Dr. B.S. Malik } -1993 - 2004
- Dr. P.N. Khanna - 2004-2007
- Dr. Lal Krishna - 2007 to - 22/4/2017

Editors:

Dr. R.N. Kohli - 6/7/2009 to Present Date (Founder Editor);

* Since deceased

1.4: CHRONOLGY OF NAVS CONVOCATIONS-CUM-CONVENTIONS

1. First NAVS Convocation: 18th December 1996 at Vigyan Bhawan, New Delhi
2. Second NAVS Convocation: 30th January 2000 at Pragati Maidan, New Delhi
3. Third NAVS Convocation: 16th April 2002 at IVRI, Izatnagar, U.P.
4. Fourth NAVS Convocation: 7th May 2005 at GBPUAT, Pantnagar, Uttrakhand
5. Fifth NAVS Convocation: 5th May 2006 at JNKVV, Jabalpur, M.P.
6. Sixth NAVS Convocation: 28th June 2007 at KVAFSU, Bangalore, Karnataka
7. Seventh NAVS Convocation: 16 May 2008 at SKUAST, Jammu, J. & K.
8. Eighth NAVS Convocation: 23rd January 2009 at SVVU, Tirupati, Andhra Pradesh
9. Ninth NAVS Convocation: 30th October 2010 at NDRI, Karnal, Haryana.
10. Tenth NAVS Convocation: 12th November 2011 at RAJUVAS, Bikaner, Rajasthan.
11. Eleventh NAVS Convocation: 2nd November 2012 at DUVASU, Mathura, U.P.
12. Twelfth NAVS Convocation: 28th January 2014 at LUVAS, Hisar, Haryana
13. Thirteenth NAVS Convocation: 28th February 2015 at CGKV, Durg, Chhatisgarh
14. Fourteenth NAVS Convocation: 4th November, 2015 at IVRI, Izatnagar, U.P.
15. Fifteenth NAVS Convocation held on 22 October, 2016 at KCVAS, Amritsar, Punjab
16. Sixteenth NAVS Convocation held on 4-5 November 2017 at Tirupati, A.P.
17. Seventeenth NAVS Convocation held on 19-20 December 2018 at OUAT, Bhubaneswar.Odissa.

OUR MISSION

“To consolidate and promote the views of scientific community on all policy matters related to Veterinary Science and Animal Husbandry in the welfare of India; to encourage better training and utilization of veterinary talent and enterprise in the country; to strive for advancement of livestock sector in the national economy; to promote animal welfare; to protect environment; and to safeguard the interests of the profession and to gain greater recognition and acclaim for it”.

1.5: DECEASED FELLOWS

A REQUEST TO OUR READERS FOR HELP

The Editor has compiled the following tentative updated list of deceased fellows of the Academy and requests our readers to kindly help us in updating this list by providing us the required information that may be available with them or their colleagues. List of all the fellows can be found in the NAVS Handbook 2016 which is also posted on www.navsindia.org Kindly email your suggestions to the editor at rnkohli@gmail.com.

1. Ahuja, Dr. Kanhaya Lal, Fellow Elected 1997
2. Baishya, Dr. Gajen, Fellow Elected 2005-06
3. Bajpai, Dr P.K., Fellow Elected 1996
4. Batta, Dr. Satish K, Fellow Elected 2006-07
5. Bhardwaj, Dr Madan Behari Lal, Fellow Elected 1996
6. Bhasin, Dr. Nek Ram, Honorary Fellow Elected 2011
(Expired on 15-12-2016)
7. Bujarbarua, Dr J.M., Fellow Elected 1996
8. Chaudhary, Dr. Amrit Lal, Fellow Elected 1996
9. Gupta, Dr. Shiv Kumar, Fellow Elected 2000-01
10. George, Dr. P. O., Fellow Elected
11. Harbola, Dr P.C., Fellow Elected 1998-99
12. Jhala, Dr. V.M., Fellow Elected 1996
13. Kanwar, Lt. Gen. N.S., Fellow Elected 2010-11
14. Katoch, Dr. R.C., Fellow Elected 2005-06
15. Krishnaswamy, Dr. S., Fellow Elected 2007-08
16. Kukreti, Dr. J.P., Hon. Fellow Elected 2012
17. Kumaran, Dr. Jay S., Fellow Elected 2007-08
18. Lal, Dr S.M., Fellow Elected 2000-01
19. Manickram, Dr R., Fellow Elected 1999
20. Mathur, Dr P.B., Fellow Elected 1996
21. Misra, Dr. Sarat Chandra, Fellow Elected 2006-07
22. Nair, Dr. P.G., Fellow Elected 1996
23. Nanda, Dr. B.S, Fellow Elected 2007-08
24. Padmanabhan, Dr.V. D., Fellow Elected 1996
25. Panda, Dr. Bhagabat, Fellow Elected 1996 (Expired on 16-12-2016)

26. Pandey, Dr J.N., Fellow Elected 2000-01
27. Pandey, Dr. Ramayan, Fellow Elected 1996
28. Pathak, Dr. Ramesh Chandra, Fellow Elected 1996
29. Pathak, Dr. S.C., Fellow Elected 1997
30. Prasad, Dr. Gaya, Fellow Elected 1999
31. Rajya, Dr. Bhagwan Saran. Fellow Elected 1996
32. Ramachandran, Dr S., Fellow Elected 1996
33. Rao, Dr B.U., Fellow Elected 1996
34. Rao, Dr. C. Krishna, Fellow Elected 1996
35. Rao, Dr. Rama Mohan, Fellow Elected 1996
36. Rao, Dr. R.L.N., Fellow Elected 1999
37. Rastogi, Dr Anil K., Fellow Elected 2007-08
38. Sahni, Dr K.L., Fellow Elected 1996
39. Salam, Dr. Abdus, Fellow Elected 1996
40. Sen, Dr. G. P., Fellow Elected 1996
41. Sharma, Dr. Deepak, Fellow Elected 2010-11
42. Sharma, Dr. Gopal, Fellow Elected 1996
43. Singh, Dr A. K., Fellow Elected 2005-06
44. Singh, Dr. Balwant, Fellow Elected 1996
45. Singh, Dr. Bhanu Pratap, Fellow Elected 1996
46. Singh, Dr. C.M., Founder President 1996
47. Singh, Dr. Nagendra Prasad, Fellow Elected 1996
48. Singh, Dr. Prem Pal, Fellow Elected 1997
49. Singh, Dr. Raghu Nath, Fellow Elected 1998-99
50. Singh, Dr. Ratan, Fellow Elected 1999-2000
51. Singh, Dr U. B., Fellow Elected 1996
52. Soni, Dr. Balbir Krishan, Fellow Elected 1996
53. Srivastava, Dr. G.C., Fellow Elected 2007-08
54. Tyagi, Dr. R.P.S., Fellow Elected 1996; (Vice-President 1993-2004, Patron elected 2004; Expired on 31-3-2018)
55. Venkatakrishnan, Dr. R., Fellow Elected 2004-05
56. Yadav, Dr. J.N.S., Fellow Elected 1999

Ch. 2: NAVS NEWS

2.1: Governing Council Members visit R V C Centre and College at Meerut Cantt. to hold their Meeting on 06.10.2018.

The Governing Council meeting was arranged on 06 Oct 2018 at RVC Centre and College on the request of our President to Lt Gen PR Ventekatesh, DG RVS. The visit commenced from Dog Training Faculty (DTF). The GC members were taken around canine breeding complex and canine cook house, followed by a dog show, which was highly impressive. Thereafter, the GC members witnessed and enjoyed the horse show followed by visit to 32 MVH (Military Veterinary Hospital) and Farriery Sqn. Subsequently, the group visited Central Military Veterinary Laboratory (CMVL). The officiating Commandant of CMVL briefed the GC members about the activities of the lab. The lab is, very well equipped with highly motivated team of officers and lab staff. This is a NABL accredited laboratory, has undertaken many DRDO, DBT, ICAR research projects and has done pioneering work on canine and equine diseases specially granders.

The GC meeting in the after-noon was attended by 15 members and started with the address by the President. In his opening remarks the President informed the house about the efforts made so far by the NAVS (I) regarding establishment of Indian Council of Veterinary Research (ICVR). He apprised the members about the outcome of his meeting with Dr. Trilochan Mohapatra, DG ICAR and Sh. Tarun Shridhar, Secretary (AHDF), GOI, on 15.06.2018 as well as on 04.10.2018. He also met Sh. Radha Mohan Singh ji, Union Minister for Agriculture and Farmers' Welfare, Govt of India and requested for the establishment of ICVR in presence of Animal Husbandry Commissioner. Further, the proposal to establish ICVR has been submitted to respected Mohan Bhagwat ji also. The President requested the GC members to use their contacts/good offices to pursue this proposal. The following agenda-items were discussed and decisions were taken accordingly.

1 Dr. C.M. Singh Memorial Award for excellence in Animal Health and Animal Production - Finalization of score card and other details: It was agreed upon that the two committees constituted earlier will exchange their views and will submit the score card and other details to the Secretary General, who will then obtain the comments of the GC members and the same will be finalized in the next GC meeting to be held at Bhubaneswar.

2. Young Scientist Award for significant contribution in Animal Health and Animal Production - Finalization of score card and other details: It was agreed upon that the two committees constituted earlier will exchange their views and will submit the score card and other details to the Secretary General, who will then obtain the comments of the Governing Council members and the same will be finalized in the next GC meeting to be held at Bhubaneswar.

3. Finalization of Fellowships, Membership and Associate Memberships of the Academy: It was unanimously decided to grant fellowship to all the 18 candidates qualified in the order of merit, (instead of a ceiling of 15), who are fulfilling the essential minimum qualifications necessary for a Fellow. However, it was resolved that this relaxation is only one-time relaxation and will not be quoted as precedence in future. In case of award of membership and associate membership of the Academy, the decision taken in the last GC meeting will be honoured.

4. To review the progress regarding brain storming sessions on important diseases: The Secretary General informed the house that in the GC meeting held on 03.11.2017 at SVVU, Tirupati some of the Institutes/Colleges were short listed for holding brain storming sessions depending upon their disease-wise expertise and for each of these sessions one GC member was also identified. However, despite reminders no progress has been made in most of the cases. Only in case of New Castle Disease in poultry, the Veterinary College and Research Institute, Namakkal has conducted the brain storming session. Dr. Ravindra Sharma informed that the research activities of FMD have been shifted from Mukteswar to International Centre on FMD, Bhubaneswar. He would request the director, IC on FMD, Bhubaneswar for conducting the brain storming session on FMD at Bhubaneswar. Further, the venue for brain storming session on rabies was changed from Bangalore to GADVASU, Ludhiana. Dr. Charan Kamal Singh, Prof & Head, Vety. Pathology has been identified as Coordinator for the same. The GC members associated with these brain storming sessions were also requested to pursue the College/Institute authorities for holding the brain storming session(s).

5. Representation of NAVS (I) in the Executive Committee of VCI: The GC members felt concerned about the prevailing situation in the VCI. All were of the view that the present stalemate should be amicably resolved so that the VCI becomes functional. Further it was resolved that a reminder may be sent to the Ministry of Agriculture and Farmers' Welfare regarding representation of NAVS (I) in the Executive Committee of VCI.

6. To revisit the number of fellowships of NAVS (I): The members were of the view that to strengthen Academy, all the Vice Chancellors/Deans/Directors of the Veterinary Universities/Colleges/Institutes may be approached to motivate young scientists/faculty members to apply for Membership/Associate Membership. When their representation in the Academy is in significant number, then increase of Fellowships can also be considered favourably.

AN UPDATE: In this GC meeting some of the members promised to convince the Members of Parliament for strongly recommending the proposal of NAVS (I) for the establishment of Indian Council of Veterinary Research. *(A draft proposal was subsequently circulated to the members along with a draft of recommendation letter on behalf of MPs to be submitted to the Hon'ble Minister of Agriculture and Farmers' Welfare, with a request to critically peruse the drafts and send their comments along with the name(s) of the MPs to be approached by*

them. The NAVS President has also submitted a written proposal to the Hon'ble Agriculture Minister, Sh Radha Mohan Singh Ji on 04 Oct 2018 in his office which was marked to the Animal Husbandry Commissioner for processing. Further, a DO letter has been written to the Hon'ble Minister of State in the Prime Minister's Office (PMO), Dr. Jitendra Singh Ji on 10 Dec 2018 requesting him to issue necessary directions to the Agriculture Ministry to consider our proposal favourably.).

Here are some Glimpses of their visit:



Visit to CMVL



At Ferriary Squadron



At Dog training facility



Quarterly meeting RVC C&C

Governing Council appreciated the State-of-Art facilities at RVC Centre and College and CMVL. The GC wishes to thank the DG RVS and Commandants of RVC C&C and CMVL and their team of officers for the excellent hospitality during their stay at Meerut. Governing Council appreciated the State-of-Art facilities at RVC Centre and College and CMVL. The GC wishes to thank the DG RVS and Commandants of RVC C&C and CMVL and their team of officers for the excellent hospitality during their stay at Meerut.

2.2: Brain Storming Session on Equine Glanders, Hisar

A meeting of various experts on equines in general and Glanders in particular was convened in the committee room of NRCE, Hisar at 3:00 PM on 17 Oct., 2018.



Maj. Gen Shri Kant, President NAVS & former VC, LUVAS chaired the meeting. Dr B.N Tripathi, Director, NRCE conducted the meeting & presented the current status of Glanders in the country and control measures are being taken by the NRCE. Following members attended the session: Maj Gen Shri Kant, President NAVS (India); Dr B. N Tripathi (Director NRCE); Maj. Gen ML Sharma; Brig. Devender Kumar Chaudhary; Dr. S.K. Gupta, Secretary General NAVS (India); Brig. J.S.

Dharmadheevan (CEO, Brook India); Dr. Saurabh Singh, Head Animal Health and Welfare, Brook India; Dr. NitinVirmani, Pr.Scientist, NRCE and Dr.Shanmugasundaram K.

Following points were discussed in the session:

- i. More information on present scenario on Glanders background information on the diseases and perspectives of one health approach may be included in the National Glanders Eradication Programme (NGEP) document.
- ii. It was emphasised to collect information on total number of equine fairs organised in the country, animal migration between in brick kilns and animal traders (from various states of the country). This information will be useful to trace equids' migration pattern across the country. Help from donkey sanctuaries can be explored as well.
- iii. Disease awareness program on Glanders for veterinarians, para veterinarians, farmers, owners and other stake holders should be taken up by the state AH Departments, ICAR institutions and other NGOs engaged in equine related activities.
- iv. Module courses on various equine diseases with hands on training should be developed by the NRCE for strengthening the diagnostic capability of state veterinarians. The duration of the courses may be up to one week. This will help in capacity building and human resource development. Furthermore, these veterinarians will be resource persons. From this group of trained veterinarians, DAHDF/State AH can depute veterinarians to equine fairs/shows, who can help in collection of biological samples and submit to NRCE.
- v. Equids suspected to have been died of Glanders based on the clinical signs before getting confirmation from the National Referral Laboratory (NRCE) should also be considered for compensation.
- vi. Compulsory registration of all equines with district veterinary authorities (annual certification) is needed particularly in the pilgrimage areas. Issuing health certificates/health cards (annual basis) to equines will help to monitor their health status regularly. Similarly, animals participating in the equine fairs also must have health certificate from the concerned authorities. This will minimize the disease outbreak and spread from animal fairs. Moreover, brick industry owners should test their animals regularly for the equine diseases.
- vii. Educational/ awareness materials prepared (audios, videos, print media) by the NRCE may be translated into local languages in Glanders affected states. This will help in wider dissemination of knowledge on Glanders amongst the equine owners.
- viii. Inclusion of microchips for the animal identification is a viable option. Awareness about equine insurance policies will help the equine owners from monetary loss due loss of their equines due to unexpected death or losses.

Dr B. N Tripathi, Director NRCE thanked all the participants for attending the meeting and for their valuable inputs.

2.3: 17th NAVS Convocation-cum-Scientific Seminar held at OUAT, Bhubaneswar, Odisha, on 19th - 20th December 2018

The 17th Convocation-cum-Scientific Seminar of National Academy of Veterinary Sciences (India) was organized at OUAT, Bhubaneswar from 19th to 20th December 2018. Theme of the Seminar was: "Livestock Sector towards One Health, Food Security and Safety". The Doyens of Veterinary and Animal Science profession and other dignitaries graced the occasion to participate in the Convocation. Eminent invited lead speakers shared their expertise during the deliberations and interactions for making fruitful recommendations. While a detailed report on the event will be published in the next issue of the Newsletter, the NAVS president in his message under "From President's Desk" column has appreciated the Odisha University of Agriculture and Technology, Bhubaneswar, for hosting the event and has gratefully acknowledged the facilities extended by the Hon'ble Vice-Chancellor, Dr. S Pasupalak and Dr. PK Roul, officiating Dean, College of Veterinary & Animal Husbandry. Each programme was a resounding success and none of this would have been possible without personal involvement of the officiating Dean and Dr N Sahoo, Acting Organising Secretary. The university authorities also deserve kudos for excellent arrangements and organizing a visit to Lord Jagannath Temple at Puri.

The audience in the Inaugural Session of the event, which was held on 19th December 2018 at M.S. Swaminathan Conference Hall of OUAT, was addressed by the NAVS President Maj. Gen. Shri Kant and the NAVS Secretary General Dr. S.K. Gupta, after the Welcome Address by Prof. P.K. Roul, Dean COVSc, OUAT-cum-Chairman Organizing Committee. The Guests of Honour Lt. Gen. Dr. N. Mohanti, former President, VCI, Prof. K. Pradhan, former Vice-Chancellor OUAT and RAU, Prof. M.P. Yadav, Former Director, IVRI and Former Vice-Chancellor SVVAU, Prof. A.K. Srivastava, Chairman ASRB and Former Director, NDRI; and the Chief Guest Prof. Trilochan Mohapatra, DG, ICAR and Secretary DARE, then addressed the audience. The Presidential address was delivered by Prof. S. Pasupalak, Hon'ble Vice-Chancellor of OUAT. The vote of thanks was gracefully proposed by Prof. N. Sahoo, Acting Organising Secretary of the conference.

The NAVS CONVOCATION proceedings were conducted by the President and the Secretary General of the Academy. Maj. Gen. Shri Kant individually presented the certificates of Fellowship, Membership and Associate Membership of NAVS (I) 2017-18 to the following recipients after the NAVS Secretary General read out their professional achievements:

FELLOWSHIPS

1. Dr. N.V. Patil, Director, ICAR- National Research Centre on Camels, Jodhpur Bypass, Jorbeer, Bikaner-334 022 (Rajasthan). Mobile :09414721588,

Landline Office : 0151-2230183, e-mail ID : nvpatil61@gmail.com and n.patil@icar.gov.in

2. Dr. Charan Kamal Singh, Professor and Head, Department of Veterinary Pathology, College of Veterinary Sciences, GADVASU, Ludhiana – 141 004 (Pb). Mob: 09888466676, e-mail ID : rabiesck@gmail.com

3 Col. Joginder Singh Maan, RVC Centre and College, Meerut Cantt - 250 001 (UP). Tel Mob: 09457420686, e-mail ID : maanjs@rediffmail.com, maanjs@gmail.com

4 Dr. Vivek Kumar Gupta, Joint Director (CADRAD), Centre for Animal Disease Research and Diagnosis, Indian Veterinary Research Institute, Izatnagar, Bareilly-243122 (UP) Mob: 09411652126, e-mail ID : gupta.drivek@gmail.com, jdcadrad@ivri.res.in

5 Dr. Abhijit Mitra, Director, ICAR-NRC on Mithun, NH-39, Jharnapani, Medziphema, Distt. Dimapur-797106 Nagaland, Mob : 09412445671, Landline : 03862-247340, e-mail ID: drabhijitmitra@gmail.com

6 Dr. Neelam Bansal Professor Veterinary Anatomy and Histology, Guru Angad Dev Veterinary and Animal Sciences University Ludhiana – 141004, Punjab, India Mob : 098720-12978, Landline : 0161-2400822, e-mail ID : bansal.neelam@rediffmail.com

7 Dr. Sukdeb Nandi, Principal Scientist, Centre for Animal Disease Research and Diagnosis (CADRAD), Indian Veterinary Research Institute, Izatnagar, Bareilly -243122 (UP). Mob : 9412066583, Landline : 0581-2302188, e-mail ID : sukdebnandi@yahoo.in.

8 Dr. Vishnu Sharma, Vice Chancellor, Rajasthan University of Veterinary and Animal Sciences (RAJUVAS), BijeyBhawan Palace Complex, Near Deen Dayal Upadhyay Circle, Bikaner – 334 001 (Rajasthan). Mob :09460387949, Landline : 0151-2543419. e-mail ID : drvishnus@yahoo.com, vcrajuvas@gmail.com

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10 Dr. Tirtha Kumar Datta, Principal Scientist, Animal Biotechnology Centre, ICAR- National Dairy Research Institute, Karnal-132001 (Haryana). Mob : 9416483476, Landline : 0184-2259506 e-mail ID : tirthadatta@gmail.com

11 Dr. Rajiv Singh, Professor and Head, Division of Veterinary Medicine, Faculty of Veterinary Sciences & A. H., Sher-e- Kashmir University of Agricultural Sciences & Technology (SKUAST-J), R.S. Pura, Jammu (J&K)-181102, Mob: 9419144184 e-mail ID : rajivrajiv101@gmail.com. Landline : 01923-250639

12 Dr. Niteen Manmohanrao Markandeya, Professor and Head, Department of Animal Reproduction, Gynaecology and Obstetrics, College of Veterinary and Animal Sciences, Parbhani- 431402 (Maharashtra) Mob : 8237682141, e-mail ID : swanitee@rediffmail.com, swanitee50@gmail.com

13 Dr. Rajendar Kanwar Sharma, House No. 306, Sector - 46, Faridabad - 121 010 (Haryana), E-mail ID : rajendarsharma@gmail.com, Mobile : 9810620109 Landline : 0129-2437410

14 Dr. Chandresh Varshneya, Professor and Head, Department of Veterinary Pharmacology and Toxicology, Khalsa College of Veterinary and Animal Sciences, Ram Tirath Road, Amritsar- 143001 (Punjab) Mob : 9418054424, Landline : 0183-6051012, e-mail : cvarshneya@gmail.com

15 Dr. Pinaki Prasad Sengupta, Principal Scientist, ICAR- National Institute of Veterinary Epidemiology & Disease Informatics (ICAR-NIVEDI), Ramagondanahalli, P. B. No. 6450, Yelahanka, Bengaluru-560064 (Karnataka) Mob : 09480454256 Landline : 080-23093110, e-mail ID : pinakiprasad_s@rediffmail.com

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The inaugural session was followed by the Scientific Sessions, poster presentations and social evening programmes.

Presented here below are a few Glimpses of the events at **Bhubneshwar:**





2.4: NAVS Governing Council and General Body Meetings held at Bhubneshwar

A Governing Council meeting of the Academy on 18th December 2018, and a General body meeting on 20th December 2018 were also held in Bhubneshwar, the minutes of which shall be uploaded on NAVS website.

The reports on oral presentations at the scientific sessions, poster presentations and awards etc for the same, when received, will be published in the next issue of the Newsletter.

CH. 3. EDITOR'S NOTE



3.1: State of Pet Care Hospitals in India

Despite the set backs, the practice of veterinary medicine and surgery in India has made remarkable progress since mid 20th century, when I first entered a Veterinary College (established in a palace building donated by the Maharaja of Bikaner) as a student in the first batch of its admission in 1954. The progress can be rated as 'tremendous' at least by our own 'Indian' standards.

As far as teaching of Surgery is concerned we were lucky to have had a US trained founder professor (Prof. Rattan Singh) who right away started live animal surgery for teaching us on experimental healthy animals (not patients) instead of using embalmed animals for the purpose, a practice that was then being followed at most of the veterinary colleges (for teaching anatomy and surgery). I still feel proud to have been the assistant of the professor in performing clinical surgery on patients while still an undergraduate student. We also published together with him a clinical case report in Indian Veterinary Journal during that period of my studentship..

But that was an exception, which I discovered soon after my first posting as a V.A.S. in a small village of Rajasthan (Chhipabarod, Dist. Kota) where the number of staff members was more the number of patients. In the 4 or 5 months that I worked there, the villagers were amazed to see me performing operations like laparo-rumenotomy in standing animals in the hospital compound where they had never seen blood earlier, except when horn cancer surgery was performed by the compounder. There were no small animal surgical patients. After that brief stint at the village I was transferred to my alma mater as an instructor and within five years of graduation I got an M.V.Sc. degree in Surgery and Medicine from Bombay Veterinary College under the advisement Prof. S.R. Hattangadi (1961-63), In Bombay, clinical small animal surgery was the routine and provided an excellent operative training. Then began an academic life which continues till today (Please do not count the years).

During 1963 to 1969 the academic journey starting from Bombay to Pantnagar to Hisar to Bulgaria (D.Sc. Degree) and back to Hisar, showed the gradual but palpable improvement in Veterinary training and practice in the Indian teaching hospitals. A larger number of clinical patients with varied diseases were available. It was in 1969-70 that got a call from village where a buffalo suffering from Diaphragmatic Hernia - regarded to be a rare disease in cattle- was detected by us (Dr. Rama Kumar and me).

When a Veterinary College was established in Ludhiana and I shifted there, it became evident that the so called rare and 'incurable' was not rare in Buffaloes. With the untiring efforts and hard work of our surgery team (1971-81), the tag of 'incurability' attached to the disease by standard foreign text

books was also demolished. The same was also proved by the surgical team of Hisar. This and several other conditions were overcome as an advancement that was unimaginable only a few years before that.

However, that was the case only in state owned large teaching hospitals. The veterinary private practice was not very much visible till the end of third quarter of 20th century, particularly in smaller towns and rural areas. But the scenario is changing fast in the current century. The excellent pet care options available now in private practice and in private institutions are getting amazingly popular and wide spread. We intend to project this change to our readers in this and subsequent issues of the NAVS Newsletter. The following abstract of some news reports and internet search reveals the availability of veterinary pet care in the National Capital Region (NCR).

The Veterinary Story of Pet Care: CGS Hospital in Gurgaon

Renuka Bali, a software engineer, is nervously waiting outside the operation theatre of CGS Hospital in Gurgaon. Her five-year-old, Lucy, is having an emergency surgery. Bali's husband, Alok, too, is getting jittery. After an hour, the surgery is over. A sedated Lucy is shifted to a post-operative care ward. "Doctors recommended laparoscopy as the best option for Lucy," says Bali. Lucy is her pet dog, a St Bernard. "It's amazing how medical facilities for pets have leapfrogged in India," she says about the state-of-the-art veterinary hospital.

Laparoscopy is not the only advanced surgical method on offer for pets. From oesophagogastrosocopy and colonoscopy to titanium elastic nailing, ultrasonic dental scaling and MRI, pet care has made huge strides over the last few years in India. Veterinarians attribute the advent of sophisticated treatment for pets to two factors. First, the high level of awareness among pet owners about medical techniques in Western countries. "When there is a demand, there has to be supply," says Dr Samar S Mahendran, director at CGS Hospital, an arm of the CGS Charitable Trust. The Gurgaon-based hospital is funded by the CSR arm of the real estate major DLF. Most of the pet owners who are opting for such treatment are globetrotters and are aware of the latest medical options. "Owners are well informed and ask the right kind of questions to get the best treatment," adds Mahendran.

Another reason why clinics are offering advanced diagnostics, says Mahendran, is the change in lifestyle. Urban India is a conglomeration of nuclear families where a pet animal is often a companion. "A dog or a cat is not just a pet. It's part of the family. In fact, it's like kids for most people," he says. With a rise in disposable income, it's natural that pet owners would want the best treatment for their pets.

For Anuj Chopra, his German Shepherd Rocky, is his "second son". An IT professional in Bengaluru, Chopra brought home Rocky because of his seven-year-old son's love for dogs. "Both are best friends and brothers," says Chopra, who last month got Rocky operated for bloat, a life-threatening disease for large breeds.

Bloat occurs when the stomach fills with either food, water or gas, causing immense pressure, which, in turn, enlarges the stomach and causes it to twist into an abnormal position. The twist cuts off the blood flow to and from the stomach. It can also put pressure on the diaphragm and cause breathing problems. This can be fatal if not treated in time. "Vet care is finally coming of age in India," says Dr G Pampapathi, who runs Pampapathi Veterinary Centre in Bengaluru. The hospital provides, apart from other specialised offerings, sophisticated orthopaedic treatment such as tibial plateau levelling, spinal surgery, synthetic orthopaedic plating gear and complex fracture repair. Some of the advanced treatment, says Pampapathi, costs as high as Rs 40,000. "Money is not an issue for pet owners looking for world-class facilities," he says. It's not only standalone hospitals run by vet doctors that have mushroomed in metros over the last few years; even corporate biggies are taking the plunge. Last year, Tata Trusts in collaboration with People for Animals (PFA) announced its plans to build a Rs 100 crore multispecialty veterinary hospital in Mumbai.

Apart from operation theatres, intensive care unit, recovery rooms, imaging and pathology services, the unit will have specialised services in orthopaedics, dentistry and trauma surgery

There has been a change in the mindset of young medical students too who see a bright future in this profession. "The stigma attached to being a vet doctor is a thing of the past," he adds.

(Source: By *Rajiv Singh* , ET Bureau| Mar 24, 2018, 11.15 PM IST)

First private veterinary practice in India to offer CT Scanning
CGS Hospital, Gurgaon is the first private veterinary practice in India to have CT (Computed Tomography) scanning with the veterinary GE- 16 slice CT scanner in India. Many orthopedics cases, tumours, lung cancers, spinal fractures can be diagnosed with the CT scan. Other diagnostic facilities include Ultrasonography, Digital Radiography, Echocardiography and C-arm radiology unit. The Hospital bagged the Award for outstanding achievement in Animal Welfare at the World CSR Congress in 2016 at Bangalore.

(Source: NCR VET January 2019)

CH. 4. LETTERS TO THE EDITOR

Dear Dr. Kohli, It's always a great pleasure to read your newsletter. Thanks you very much for taking the time to develop this document and sharing with everyone. This morning, I quickly glanced through all the comments pertaining to the veterinary education in India. While I agree with several of the comments, I would like to provide my input based on my perspective and interacting with researchers in India. I strongly believe the undergraduate curriculum leading to [B.V.Sc](#) & A. H. degree is very strong in India and the courses that are offered in the graduate studies (M.S. and Ph.D. degree



programs) are certainly needed. India does have the resources to conduct innovative, high impact research. The deep rooted problem relates to the hiring of the new faculty members in the Universities. I recently came across a department in which 70 - 80% of the faculty members got their Ph.D. with a professor in the same department and these professionals were offered a faculty position.

India needs to establish a very fair recruitment process for new hires. Recruitment of the faculty should be done by members of the selection committee appointed from all over India. Like it is done in the US, Indian universities need to establish a tenure-track position. If a new faculty is not able to publish peer-reviewed papers and is not able to obtain funding from the industry or the government, the individual should be asked to look for another job. University professors should be encouraged to develop multidisciplinary research projects and encourage students to interact with professionals in other laboratories. More emphasis needs to be on innovation. Recently, I was asked to be an external evaluation of a few Ph.D. thesis. I realized that tremendous work is done by the students. However, statistical interpretation of results was not adequate. More emphasis needs to be on experimental design and statistical analysis of the data. This means researchers need to work very closely with a statistician and have some understanding of the statistical approaches and interpretation of the data. This is all I have.

Best regards, Dr. Vijay K. Juneja, Lead Scientist, USDA-Agricultural Research Service Eastern Regional Research Center 600 E. Mermaid Lane Wyndmoor, PA 19038, USA, Phone: 215-233-6500 (Office), 215-370-8566 (Cell) Fax: 215-233-6697, Email: Vijay.juneja@ars.usda.gov,

Dear Dr Kohli: A never tiring effort from you has been exhibited by an extensive coverage of the events and news for and about the veterinary profession in NAVS October 2018. Apropos your editorial, I was very impressed by the extensive response to your POST#1 which highlighted the lack of large veterinary hospital network in India. Absolutely true but imagine the awareness that is being generated. Apropos - a bright future for the veterinarians and their profession. Dr. R.S. Khanna, International Dairy Consultant and Chairman Kwality Limited; Email: [<dr.rskrsk@gmail.com>](mailto:dr.rskrsk@gmail.com)

Congratulations Sir. Nice to see my photograph i.e. photograph clicked by me, on the front page of the October 2018 issue of the NAVS Newsletter. Sir, I clicked this photograph at a dog show in Ludhiana. Dr. Kirti Dua, GADVASU, Ludhiana. Email: kirtidua@yahoo.com.

(Reply: Thanks for your mail. The lovely picture was chosen out of the numerous in my internet collection. Congratulations. Please also see the next letter: Editor).

Dear Dr Kohli: While acknowledging the timely receipt of the October, 2018 issue of NAVS Newsletter, I congratulate you for bringing such a meticulous content and composition. The multicolored cover page has been designed very beautifully with an attractive picture of the most loved pet by the human society world over. My enriched congratulations and regards: Prof. (Dr.) M. P. Yadav, Editor, Agricultural Research; President, IAVMI; and Former NAVS President; Phone: 09810820093, 8920750043, 0124-2382652. Email: yadav_mp@hotmail.com; (The cover design assistance was provided by Mr. Narendra Pandey (IDA, New Delhi; and the cover photo was clicked by Prof. Dr, Kirti Dua (GADVASU, Ludiana). Please also see the previous letter: Editor)

Dear Dr Kohli: While thankfully acknowledging the receipt of Oct 2018 issue of NAVS Newsletter, I must admit that with your untiring efforts, the quality & content of the NAVS Newsletter is growing day by day. It is really very informative. As a author and editor of several publications, I know how hard it is bring out such a wonderful publication, that too at your age. You are doing so much for the welfare of the profession. I pray for your healthy, happy and long life. Dr. PK Gupta, [<drpkg1943@gmail.com>](mailto:drpkg1943@gmail.com)

Thanks for the October 2018 issue of NAVS Newsletter. It contains Wonderful information. Congratulations.

Prof (Dr.) Prayag Dutt Juyal, Vice Chancellor, Nanaji Deshmukh Veterinary Science University, Jabalpur 482001 (M.P.) Email: juyalpd54@rediffmail.com. Mob: 09417471917, 9522581917

Thanks Kohli Sab.: Very nice article on the use of coconut oil.
Dr. Anup Datta, Balurghat College, Kolkata; email: dranup2848@gmail.com

Dear Sir, The October 2018 issue of NAVS Newsletter is very informative. Congratulations. Dr. R.K. Sharma, Professor & Head, Veterinary Pharmacology and Toxicology, Nanaji Deshmukh Veterinary Science University (NDVSU), South Civil Lines, Jabalpur (M.P.) - 482001 India. Phones: Off- 0761-2621330; Mobile: +91-9425060228; Email: drksvet2012@gmail.com

Sir: Thank you very much for publishing our ICAR-NIANP event in your esteemed NAVS Newsletter. With Best Regards: Dr. G. Krishnan, I/C Publication Cell, ICAR-NIANP, Bengaluru; [<vet.krish@gmail.com>](mailto:vet.krish@gmail.com)

I was shocked to see a social media posting entitled “HYDERABAD NAWAB ON HOT PURSUIT.....”. On a search I discovered that this has reference to an order of Principal Chief conservator of forests (PCCF) (Nagpur desk 23(40 CR54 /2085/ Dtd 4.9.18 & CCF(T) Ytl/A/desk-3 Wildlife/2661/18/19 Dtd 10.9.18. ordering one Mr Nawab Ali Shafat Ali Khan of Hyderabad to dart or / and kill a tigress with cubs at foot. A plain reading of the content brought out certain startling facts and suspicion of permitting herders illegally into protected area (conspiracy?), cover-up any intrusion in the name of a “presence of man eater”

(objective?) and using any death inside protected area to pay compensation expending huge public funds (motivation?). As a student of Veterinary Ethology and Disaster Management the entire action appears to me to be clouded with a “misty mystery” of organised corruption and illegality. This episode need be thoroughly investigated by an outside agency inviting and/ or searching opinions from experts all over the world. I am willing to share an elaborate note that led me to suspect foul play and which can help to get the same thoroughly examined, topic by topic and action by action in retrospect. Prof.(Dr.) Rama kumar, V, Former Secretary, Veterinary Council of India, New Delhi (retd); drramakumarv@gmail.com

When invited recently to speak at the National Academy of Veterinary Sciences' 17th Convocation and Seminar on “One health, Food Security and Safety” at Odisha University of Agriculture & Technology (OUAT) in Bhubaneswar, I readily accepted as it offered me an opportunity to visit Kalinga region for the first time. This is where hospitals for birds and horses originated first in the history of human kind, benevolence not just for humans but for all creatures.

While at the Academy Convocation, it was a pleasant surprise to meet Dr. K. Pradhan and Dr. Usha Madokhot who taught me at the veterinary school in seventies. It was a delight meeting Maj Gen Shri Kant Sharma, President of the Academy, Dr. M.P. Yadav, Lt Gen Narayan Mohanty President Veterinary Council of India, Dr. Trilochan Mohapatra, ICAR Director General, Dr. A. K. Srivastava, Chairman ASRB, Dr. S. Pashupalak, Vice Chancellor OUAT, Dr. Ravindra Sharma, Dr. N. Sahoo and Dr. S. K. Gupta among many stalwarts active at the Academy. While India so far focused on plant agriculture, need for a similar stimulus on Veterinary science & Animal Husbandry was felt to improve the livelihood and quality of life in the countryside in the era of globalized trade. I was impressed by the theme of the seminar, ‘One Health, food Security and Safety’, as India still is in a twilight zone in providing safe food free of adulteration to its citizens and its share of global trade. This requires raising disease and antibiotic residue free healthier livestock, disease prevention, sustaining quality animal genetics and efficient execution of international regulations. This will help enhance India's share of world trade in livestock industry. India has an edge in providing disease resistant livestock with sound genetics that must be scientifically documented for the benefit of all. The concept of ‘One Medicine, One Health and One World’ is a reality in the vastly inter-connected global village. Newly emerging infections, antibiotic resistance, zoonotic diseases and evidence-based medicine are common to livestock and humans. To achieve this, an emphasis should be on ‘ecosystem health’ that requires preserving and sustaining a healthy environment. Increased pollution, loss of flora & fauna, polluted river waters etc. affects both livestock and human health with economic consequences. This is must for sustaining a healthy society that can efficiently and productively compete globally. The focus should now be on food security, quality, nutritive value and safety and to develop value added products for economic growth. Strict regulatory policy regime is needed to gain consumer confidence as globalized

trade permits consumption of food far from where it is produced. Advanced technology based analytical systems are needed to ensure food safety, including food imported in India.

On a personal note, I appreciated that the Academy recognized forgotten contributions of Professor Rajendar K. Sharma, Father of Veterinary Extension Education in India, who together with his colleagues successfully introduced the concept of 'Krishi Gyan Kendra' in Haryana in seventies helping usher much needed food security at the time. From ancient times, India has been the land of the ever-evolving Dharmic civilization that gave an unparalleled intellectual order to the world. The famous mathematician, Ramanujan, the man who knew infinity, found its origin in 'Vedic Swastik Ganita' rooted in spirituality of the Hindu temples. It was a spiritual journey for me to visit Jagannath Dham, Shankracharya established Govardhan Math, Artist's village Raghurajpura, Dhaulagiri Hill and 11th century temples such as Konarak, Raja-Rani and Lingraj. The architecture of the ancient temples was awe-inspiring. I thank the dynamic Academy President Maj Gen Shri Kant for the invite and reconnect after 35 years.

Dr. Azad K. Kaushik, D Sc (Paris), Professor, University of Guelph, Guelph, Ontario, Canada, akaushik@uoguelph.ca

AN INVITATION TO EXISTING MEMBERS OF THE ACADEMY TO APPLY FOR 25% FELLOWSHIPS RESERVED FOR THEM

The Rules and Regulations of the Academy, as amended up to November 4, 2015, were last published in April 2016, and are posted on the website of the Academy. We have noticed that very few, if any, of the long standing existing Members of the Academy apply for the Fellowship of the Academy. As such the number of existing Members of the Academy who are being elevated as Fellows is extremely poor. We suspect that they are perhaps not aware of a provision under Rule No. 3(a)-(i) of the Academy which stipulates that *not less than 25% out of any number of Fellows elected shall be by elevation from amongst the members of five or more years of standing provided they fulfill the essential minimum qualifications necessary for a Fellow.* Accordingly we hereby specifically invite the existing members of the Academy to utilize the 25% reserved quota for their election as Fellows by applying particularly for this category. The relevant is reproduced below:

Rule No.3 (a) - (i) : Election and admission of Fellows

The yearly intake of fellows shall not exceed 15 and in any case not less than 25% out of any number of Fellows elected shall be by elevation from amongst the members of five or more years of standing provided they fulfill the essential minimum qualifications necessary for a Fellow. The applications under this reserved category will be invited specifically from all the existing members who have a standing of more than five years. The total number of Fellows shall be limited to 550 or such number as may be decided from time to time.

5: FROM THE PRESIDENT'S DESK

The quarter ending December 2018 turned out to be eventful. The 17th Convocation of National Academy of Veterinary Sciences (India) and Scientific Seminar on theme entitled, "Livestock Sector towards One Health, Food Security and Safety" was organised at Odisha University of Agriculture & Technology, Bhubaneswar, in most professional manner. Almost all the GC members participated and many of them with their wives. We gratefully acknowledge the facilities extended by the Hon'ble Vice-Chancellor, Dr. S Pasupalak and Dr. PK Roul, officiating Dean, College of Veterinary & Animal Husbandry. Each programme was a resounding success and none of this would have been possible without personal involvement of the officiating Dean and Dr N Sahoo, Acting Organising Secretary. The university authorities deserve kudos for excellent arrangements and organising a visit to Lord Jaganath Temple at Puri.



Our ever smiling and magnanimous Vice- President Dr. DVR Parkash Rao, could not join in view of tragic and untimely demise of his beloved wife. We all missed the couple and prayed ALMIGHTY to grant peace to the departed soul. I wish to acknowledge with gratitude the hard work put in by Dr RC Patra, the Organising Secretary. It was very painful to know that he suffered from cerebral stroke and got paralysed before the event. I along with Dr. SK Gupta, Secretary General NAVS (I) and Dr. Ravindera Sharma visited his home to enquire about his health, boosted his morale and prayed to ALMIGHTY for his speedy recovery.

When I took over as the President of the Academy, three important challenges were at the back of my mind. Firstly: to mobilise funds for the Academy. We have been able to mobilise funds to the tune of Rs 20.5 lakh. Second challenge was regarding establishment of Indian Council of Veterinary Research (ICVR). In my humble efforts, I have submitted a written proposal to the Hon'ble Agriculture Minister, Shri Radha Mohan Singh Ji on 04 Oct 2018 in his office which was marked to the Animal Husbandry Commissioner for processing. Further, a DO letter has been written to the Hon'ble Minister of State in the Prime Minister's Office (PMO), Dr. Jitendra Singh Ji on 10 Dec 2018 requesting him to issue necessary directions to the Agriculture Ministry to consider our proposal favourably.

Third challenge was regarding parity of Fellowship of NAVS with those of other academies like NAAS etc. We have taken up this issue with DG ICAR and Chairman ASRB and it is hoped that our request will be considered favourably.

It gives me immense pleasure to inform the esteemed readers that this year a total of 18 eligible Veterinarians (Scientists/academicians) have been admitted as Fellows of the Academy. Further, six eligible scientists/academicians have been admitted to the Academy, two as Members, and four as Associate Members. All the Hon'ble Fellows/Members/Associate members may kindly note that the next (XVIII) convocation is likely to be held in Kamdhenu University, Gandhinagar.

The Application Performa for NAVS Fellowship, NAVS Membership and NAVS Associate Member have been revised and are being put on the Academy's website for the benefit of aspirants. I would request all the young faculty members in Veterinary Colleges/Institutes to apply in larger numbers for Membership/Associate Membership which would facilitate for their Fellowship in future. Senior and deserving faculty members may also apply in large numbers for the Fellowships. I must inform that to meet the aspiration of young veterinary professionals, we have brought down the eligibility of minimum score from 70 per cent to 65 per cent and 60 per cent for Membership and Associate Membership, respectively.

As we stand at the cusp of another new and exciting year, which will bring with it a new set of challenges and opportunities; we look forward to your continued support in making this year equally memorable and rewarding.

We, together and with the blessing of ALMIGHTY, would strive to achieve many more milestones!

I wish a lot of learning, laughter, love and happiness in year 2019 to all the Fellows, Members, Associate Members, the readers and their families!

Maj Gen Shri Kant, SM, VSM,
President

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

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6: VET TRACKS

Appointments, transfers, promotions, awards, honors and felicitations

6._: Dr. N. H. Kelawala, joins as Vice Chancellor of Kamdhenu University, Gandhinagar, Gujarat-382010

The Registrar Kamdhenu University has informed vide his circular dated 26-10-2018 that Dr. Nareshkumar Hasmukhlal Kelawala, Principal and Dean, College of Veterinary Sciences and Animal Husbandry, Navsari Agricultural University, Navsari has taken over the charge of of the post of Vice Chancellor Kamdhenu University Gandhinagar, Gujarat-382010 with effect from 26-10-2018.



Dr. N. H. Kelawala, who is an eminent Fellow of our Academy, is a graduate of Veterinary College, Anand and started his career in 1986 in his alma mater as Veterinary Officer in the Department of Surgery. He served in different capacities till January, 2009, and also obtained his Masters & Doctorate degrees in the 1989 & 1996, respectively. He was awarded “Jawaharlal Nehru Award in the year 1996-97 for outstanding Agricultural Research” by ICAR for his Doctorate Research, He was deputed under bilateral collaborative exchange programme of Indian National Science Academy, New Delhi to Peoples Republic of China and Brazil in the year 1999 & 2005-2006, respectively. He joined as Dean at Veterinary College, Navsari Agricultural University, Navsari, since its establishment in the year 2008-2009. During his tenure as Dean, developed Veterinary College, Navsari and was the instrumental in getting it recognized by Veterinary Council of India which is first after indictment of VCI Act, 2008. During his academic career guided MVSc (20) and PhD students and published more than 50 research articles in national and international journals of repute. He has joined as Vice Chancellor, Kamdhenu University, Gandhinagar on 26th October, 2018. He has also participated in the 2nd Regional Workshop for “Veterinary Education Establishment (VEEs) and Veterinary Statutory Bodies (VSBs)” during 19th - 20th November, 2018 at University of Tokyo, Japan as an OIE sponsored Indian Delegate nominated by the Ministry of Agriculture, Farmer Welfare & Cooperation, GoI, New Delhi.

6._: Maj Gen Shri Kant Nominated to IVRI Academic Council and Chairman of QRT of NRCE, Hisar.



The director-cum-Vice Chancellor Indian Veterinary Institute, Izatnagar (Bareilly) has nominated Maj Gen Shri Kant ,SM, VSM, President of the NAVS (I) and former Vice Chancellor LUVAS Hisar, as Member of the Academic Council of the Deemed University (IVRI) for a period of two years vide their letter No. F.I-10/2004-B&C [Const. Of AC] dated 12th Oct 2018. Accordingly, Maj Gen Shri Kant attended the 61th meeting of Academic Council of the IVRI held on 17th Nov 2018.

Maj Gen Shri Kant, SM, VSM, has further informed that DG ICAR has nominated him as Chairman of QRT of National Research Centre on Equines Hisar for the period April 2013 to March 2018 vide ICAR letter No. F.No. 24/01/2018-IA-I dated 18/22 Oct 2018. Maj Gen Shri Kant has accepted the offer of Chairmanship.

6._: Dr. R.S. Khanna was the Chief Guest at 3rd International Conference on “Digitization, Innovation and Disruption”

Dr R S Khanna, Chairman Kwality Limited and International Dairy Consultant was the Chief Guest at the third International Conference on “Digitization, Innovation and Disruption (ICDID) : Keys to Achieving Global Competitiveness” was held on September 15, 2018 at the GL Bajaj Institute of Management & Research, Greater Noida (NCR). The third International Conference on “Digitization, Innovation and Disruption (ICDID) : Keys to Achieving Global Competitiveness” was held on September 15, 2018 at the GL



Bajaj Institute of Management & Research, Greater Noida (NCR). The theme of his talk was ‘Fourth industrial revolution is founded in digitization, innovation and disruption’. While his discourse was generally on the industrial revolution, he highlighted the applications of artificial intelligence, cloud computing, genomics, and process innovations that were being widely applied in the domestic livestock management, dairy farming and dairy and food processing operations. Dr. R.S. Khanna is a graduate of Hisar Veterinary College.

6._: NAVS Editor Dr. R.N. Kohli consents to be the Member of the Editorial Board of Dairy Journals

In April 2018, your editor consented to become the Member of the newly constituted Editorial Board of two Scientific Journals published by the Indian Dairy Association Viz. Indian Journal of Dairy Science and the Indian Dairyman. He has previously been associated with following Journals in India and abroad:

1968-1969: Editor, the Punjab Veterinarian (PAU, Hisar)

1969-1971: Founder Editor, the Haryana Veterinarian (HAU, Hisar)

1971-1981: Founder Editor, Indian Journal of Animal Health and Production

1988- 2008: Editorial Board, Ahwaz University Bilingual Veterinary Journal,

2009-2019: Founder Honorary Editor, NAVS (India)

6._: IDA Holds Editorial Board Meeting

A meeting of the Editorial Board of Dairy Journals published by the Indian Dairy Association was held on 15th December, 2018. A status report of Indian Journal of Dairy Science was presented by the editor and identification of an agency for its e-publication was discussed. The NAAS rating of this journal has risen from 4.13 to 5.26. Several publication and distribution issues of this journal as well that of the Indian Dairyman were thoroughly discussed in the meeting.



CH. 7: VIEW POINT

7.1: NATIONAL AGRICULTURAL POLICY:

A critical appraisal on the constraints and opportunities in its implementation

Prof. Dr. Rama Kumar V.

Former Secretary, Veterinary Council of India

Focus on Research & Development (R&D) on Animal Resources, Domestic Animals, Ferals and Wild Fauna is Critical for Ensuring Optimal Health for Man, Animals And Nature [M.A.N.] Research and development by establishment of Indian Council of Agricultural Research (ICAR) have by and large benefited crop agriculture especially food grain production. But the impact of green revolution was not uniform in all the regions of the country At places it had lead to what some eminent scientists forewarned as “greed revolution”. This demands review.

A summary of the 48 point national agricultural policy of the previous NDA govt. reads as follows. Agriculture being central to socio-economic development a growth rate of 4%, based on efficient use of resources, conservation of soil, water, bio-diversity with equity & growth across all regions is to be envisaged. This shall be demand driven, catering to domestic market, benefiting from export and meeting the challenges of liberalization (a slogan of “new world trade order” (envisioned by Clinton govt.) Growth shall contain biotic pressure on land, environmentally friendly and be socially acceptable. It emphasizes reclaiming of wasteland & fallow land, participatory moisture management and sensitizing community on environment and agro-forestry. It speaks of harvesting traditional knowledge, medicinal plant cultivation; evolve a regional strategy and develop crops of high nutritional value with bio-safety. It speaks of generating & transferring technology through frontiers of technology using a research-extension link; but is critical of financial sustainability of extension service. It expresses gender concern & speaks of safeguarding the poor [read article 39 of the constitution of India]. It advocates quality input, certification of seeds and breeding of new varieties. It discusses the compulsion and opportunities under TRIPS & challenges under WTO. In order to make farming more attractive it suggests tariff protection, rationalizing import duties, removal of restriction on movement of goods, reviewing of excise duty on agri. inputs [today it may not be relevant with the introduction of GST]. The policy advocates public investment in agro based industry. It also speaks of bridging the gap between created & utilized irrigation potential and of support by way of marketing, storage & processing, land reforms etc. It proposes digitalization of land records and safeguarding of women’s right to land. It proposes revamping of cooperatives, easing farm credit sanction procedures, democratization in banking sector through legislation and involving of poor in banking. It favors agri. insurance scheme, flood protection,

support price & pricing to prevent distress sale and stabilize price. It proposes a rural bias to raise standard of living there. Centre proposes to limit itself to macro-management and encourage the use of quality (standard) inputs especially for export enhancements. For the purpose it proposes to strengthen data base on agriculture and involve agri-on line service. It mentions animal husbandry, fisheries & animal production technology only at three places, though no major proposal is suggested. Establishment of Indian Council of Veterinary Research (ICVR) can be a golden opportunity to dovetail research on animal resources with service and administration in each of our 85 regions spread in 36 states /UT's. Eventually a unified unit can be evolved and renamed meaningfully as Department of Animal Resource Development (ARD). Contact Details of Prof. Dr. Rama Kumar V.: drramakumarv@gmail.com; Trivandrum, Kerala; Mob. 9847443086.

CH. 8. NATIONAL & INTERNATIONAL VETERINARY NEWS

8.1: The 42nd Annual Congress of Indian Society for Veterinary Surgery (ISVS):

The 42nd Annual Congress of Indian Society for Veterinary Surgery (ISVS) and National Symposium on “*Advances in Diagnostic Imaging and Surgical Techniques in Farm and Companion Animals*” was held at Navsari Agricultural University (NAU), Gujarat (India) from 22nd to 24th November, 2018. Over 300 delegates participated in different sessions of the congress where more than 300 papers were presented. The participants included members of the faculties and postgraduate scholars from various veterinary colleges of India, apart from scientists from National Institutes, practicing veterinarians, veterinary officers from State Animal Husbandry departments etc. The theme session of the three day programme began with the presentation of a paper by Dr. Adarsh Kumar, and was followed by “Dr. O Ramakrishna Oration award lecture” which was delivered by Dr. H. P. Aithal on “Current status and future prospects of large animal fracture repair” and “Dr. P. E. Kulkarni Oration award lecture” by Dr. C. C. Wakanker on “A perspective on desirable surgical skills in neophyte vets-private practitioners and field vets”.

8.2: Institute - Industry Meet organized at ICAR-NDRI, Bengaluru on 6th Oct 2018

An institute - Industry meet was organized at ICAR-NDRI, Bengaluru on 6th October 2018 in order to explore collaboration opportunities with dairy industry as well as to transfer technologies developed at ICAR-NDRI. Various technologies developed at NDRI, Karnal and NDRI, Bengaluru were presented to industry representatives during the meet and industry representatives were also given opportunity to present their views and perspectives on what NDRI is expected to do for the Indian dairy industry. In all 54 persons representing 30 industries like Dodla Dairy, ITC, Britannia Industries, Heritage Foods, Hatsun

Agro etc. participated in the Meet. Mr Sunil Reddy, Managing Director of Dodla Dairy Ltd., Hyderabad was the Chief Guest stated that dairy institutes are doing good work, but the technologies should be offered to industry as a package including manufacture methods, packaging, cost effectiveness and market opportunities. Mr Sanjay Singal, Chief Operational Officer of ITC Ltd., Bengaluru was the Guest of Honour. Director of ICAR-NDRI, Dr RRB Singh presided over the inaugural programme. Dr. S. Ayyappan, NABARD Chair Professor, explained the importance of transfer of technology quickly to the end users. Dr RRB Singh assured the industry that NDRI would be pragmatic in its approach in dealing with industry and wanted more and more collaborative



approaches instead of working in an isolated manner. Dr K.P. Ramesha and Dr. B.C. Ghosh, were the Chairman and Organizing Secretary, respectively, of the Organizing Committee.





The Some of the areas identified in the Meet for further work are:

- Improvement of initial quality of milk at collection
- Utilization of concentrated milk for reconstitution and recombination purposes.
- Effective application of membrane technology in the industry (for example in powder plant and evaporation plants)
- Conversion of old powder plants into agglomerated powder plants (agglomerated SMP fetches higher price)
- Restriction of use of sugar in dairy products.
- Development of energy efficient equipment
- Enhancement of shelf life of paneer possibly up to 30 days
- Utilization of treated ETP water (RO, deodorized etc.)
- Accelerated test for determining sterility of UHT milk to avoid incubation time.
- Rapid tests for estimating FSSAI parameters
- Development of low-cost method for detecting aflatoxins
- Fixing of standards for traditional sweets.
- Development of kit methods for approval by FSSAI
- Development of strip test for detection of preservatives in liquid milk
- Study on proteolysis activity in milk testing equipments
- Content development on yield enhancement and veterinary health
- Effectiveness of area specific mineral mixture on conception rate as compared to normal mineral mixture
- Educating farmers and middlemen not to adulterate milk supplies

8.3: World Food Day Celebrated at SRS of ICAR-NDRI, Bengaluru on 16th October 2018



On the Occasion of World Food Day celebration on 16th October 2018, Alumni Association of ICARNDRRI (SRS), Aduogodi, Bengaluru organised a Guest Lecture on “Milk for advanced food security of young

and old” by Prof G.S. Bhat, former Vice-Chancellor of Karnataka Veterinary, Animal and Fishery Sciences University (KVAFSU), Bidar. Speaking on the occasion, Dr Bhat delineated the nutritional importance of milk and milk constituents, especially whey proteins and explained the importance of milk and milk products in nutritional security to the masses. He shared his experience and outcomes of his research projects on milk constituents and their utilisation for nutraceutical applications. Dr K. P. Ramesha, President, Alumni Association & Head of ICAR-NDRI (SRS), Bengaluru explained the significance of celebrating World Food Day stating that India ranks hundredth among 119 countries on World Hunger Index, implying that a lot still needs to be done as a significant number of people are still not getting enough to satisfy their hunger. He further said that the occasions like world food day have to be utilised to bring awareness among people about prevailing hunger among downtrodden people. Dr Ramesha emphasised the role of Agricultural Scientists in achieving zero hunger by 2030. Earlier, Dr K. Jayaraj Rao, Vice President of the Association welcomed the gathering and Dr Laxmana Naik, EC member of the Association proposed vote of thanks.

8.4: 20th Indian Veterinary Congress 2020 of IAAVR to be held in TANUVAS, Chennai

ICAR-Emeritus Professor, *Dr. Rishendra Verma*, Founder Secretary, Indian Association of Advances in Veterinary Research (IAAVR) and Member, Board of Management (TANUVAS) writes to inform that the Hon'ble Vice Chancellor, Tamil Nadu Veterinary and Animal Science University (TANUVAS), Chennai has kindly given his consent to host the 20th Indian Veterinary Congress 2020. We thank Dr. Verma for sharing this important news with us and heartily congratulate him and IAAVR.

8.5: High Court Quashes Government Ban on Oxytocin Manufacture by Private Firms

The Delhi High Court has quashed the centre's decision to ban the sale and manufacture of Oxytocin by private firms. The court set aside the Government notification of April 27 imposing the ban, saying it was arbitrary and unreasonable. The court was not impressed with centre's "far greater" reliance on the need to prohibit availability of Oxytocin from what was perceived to be widespread veterinary use.

8.6: ICAR-NIANP, Bengaluru Organized Winter School 1-21 November 2018

G Krishnan, I/C. Publication Cell, ICAR-NIANP writes to inform that ICAR sponsored winter school on "Climate change led biotic and abiotic stress in farm animals and amelioration using nutritional and physiological approaches" was inaugurated on 1.11.2018. 21 participants covering 11 states enrolled in this 21 day training programme. Dr Khub Singh, Founder Director of ICAR-NIANP was the Chief Guest and inaugurated the winter school. He released the technical compendium and remarked that climate change in Indian context is a serious challenge and warrants region and need based ameliorative measures to face the

stress in farm animals induced by climate change. Dr Raghavendra Bhatta, Director, ICAR-NIANP opined that the impact of climate change is inevitable and need preparedness to deal with the negative consequences. Dr N K S Gowda, Course Director briefed the content of winter school and schedule of organization.

The course comprised of comprehensive topics on: Climate change - status and implications, Adverse effect on livestock production in the form of abiotic and biotic stresses, Physiology and biochemical aspects of stress in farm animals, Enteric methane emission and amelioration, Molecular and adaptiveness to stress, Ameliorative measures with nutritional and management approaches, Indigenous livestock and stress tolerance, Shelter management and Human-wild life conflict due to climate change. Total of 40 in-house lectures, 8 guest lectures and 13 practical / demonstrations were arranged. Visit to Institute fodder and livestock unit was arranged. Study visit to Bannerughatta National park was also arranged. Five farmer friendly technology videos were shown.

For the valedictory function, Dr H D Narayanaswamy, Honorable Vice-Chancellor of KVAFSU, Bidar was the Chief Guest. He presented certificates to the participants of winter school and expressed the need of greater collaboration with well equipped laboratories and ICAR Institutes for productive research output. Dr Raghavendra Bhatta, Director, ICAR-NIANP thanked ICAR for sponsoring this 21 day winter school and complimented the participants as well as Course Director (Dr NKS Gowda) and Course Coordinators (Dr D Rajendran & Dr G Krishnan) for successful conduct of the winter school.



8.7: World Dairy Summit 2022 to be Held in India

The dairymen and members of allied professions of India would be delighted to learn that the International Dairy Federation has assigned the 2022 World Dairy Summit 2022 to New Delhi. This was their long cherished desire as the last World Dairy Congress was held in New Delhi during 1974. "With India having attained the first place in milk production several years ago, a strong need was felt that the nation must show-case its achievements to world community", states Dr. G.S. Rajorhia, President of Indian Dairy Association, who attended the 2018 World Dairy Summit recently. Dr. Rajorhia has observed that the global expertise gathered at the Summit infused greater scientific knowledge and

technical understanding among members and industry players to keep abreast of international developments in dairy sector.

8.8: Chandigarh Government suspends license of 1,000 chemists in 10 months

There are nearly 16,000 retail and 8,000 wholesale chemists across the state. A large number of them have come up in recent years, especially in rural areas, and some of these reportedly indulge in illegal activities such as sale of habit-forming drugs. In its fight against drugs, the Punjab government has tightened the noose around chemists indulging in malpractices by suspending licenses of nearly 1,000 shops in the last 10 months. From January to October 2018, 8,024 inspections were conducted and initiated action against the violators under the provisions of the Drugs and Cosmetics Act, 1940 / Rules 1945. Ninety licenses were suspended and 12 cancelled due to contraventions relating to habit-forming drugs. While remaining licenses were suspended due to general violation, which include non-availability of pharmacist. The department also seized habit-forming drugs worth Rs 8 crore from unauthorised sales units. In 60 cases, the accused were convicted. However, to keep track of the 8,000 chemists, there are only 39 drugs inspectors working in various districts under seven zonal licensing authorities. The shortage of staff and infrastructure was discussed on November 27, 2018 in the civil surgeons' review meeting chaired by Punjab health minister Brahm Mohindhra, who assured that he would address the issue. (TNN, Dec. 3, 2018)

8.9: NATIONAL MILK DAY CELEBRATED AT IDA ON 26TH NOV. 2018

National Milk Day was celebrated on 26TH Nov. 2018 at the Indian Dairy Association, New Delhi, on the occasion of 97th birth anniversary of late Dr. Verghese Kurien, the milkman of India, who dedicated his life to empowering the Indian farmers through co-operatives. A film on Dr. Kurien was projected for the



audience at the commencement of the programme, The IDA President informed the delegates that the ministry of agriculture was also organizing an event on the occasion and hoped that we may celebrating the day together next year.

The participants paid rich tributes to Dr. Kurien's role in bringing about a white revolution in the country. Many of them who had been associated with him praised his work ethics, management skills and his personal commitment to all the big and small issues. The participants paid rich tributes to Dr. Kurien's role in bringing about a white revolution in the country. Many of them who had been associated with him praised his work ethics, management skills and his personal commitment to all the big and small issues. They also raised and discussed various issues Viz. Raising farmers' income by remunerative pricing of milk procurement; Success of operation flood which was the world's highest nded programme; Adulteration of milk; nutritional security improvement of breeds and milk v/s meat debate etc..

9. SCIENCE, HEALTH & SOCIETY

The health information included in this publication, unless stated to be otherwise, has not been evaluated by the Food & Drug Administration or any other medical body. We do not aim to diagnose, treat, cure or prevent any illness or disease. Information is shared for educational purposes only. You must consult your doctor before acting on any content.

9.1: Panel suggests higher sin tax on tobacco, alcohol and Setting Goals for the Government to Revamp the Health Care.

The Niti Aayog has proposed a series of tough measures, including higher taxes on tobacco, alcohol and unhealthy foods such as soda and sugar-sweetened beverages, increased public health spending and creation of public health and management cadre in states to revamp the country's public and preventive health system.

Underlining the severe shortage of doctors, nurses and paramedics, it also called for major reforms in regulation of medical education and *suggested achieving a doctor population ratio of at least 1:1,400 against the WHO norm of 1:1,000 and nurse population ratio of at least 1:500 by 2022-23.*

The Ayog also suggested incentivising state governments to invest in creating a dedicated cadre for public health at the state, district and block levels and including Ayush into the mainstream.

9.2: FDA proposes new restrictions on vapes and menthol cigarettes

The FDA has launched a sweeping new effort to crack down on the rising rate of tobacco use among young people. Here's what you need to know:

- § The details: The agency says it'll limit sales of most flavored e-cigarettes in retail stores by requiring shops that sell vapes to have either age-restricted entry or separate areas that minors can't enter. That'll effectively ban sales in convenience stores and gas stations, but not specialty stores.
- § The context: "The issues are both access and appeal. The e-cig products are too appealing to kids, and too accessible. And so we are taking steps to address both these variables," FDA Commissioner Scott Gottlieb said in a tweet.
- § On a related note: The FDA is also moving to ban menthol in cigarettes and cigars. The proposal will have to go through the rulemaking process — which can take years — and could face opposition from the cigarette industry.

9.3 Country's largest cancer hospital comes up in NCR

According to a TNN news report (Dec. 18, 2018), India's largest cancer hospital - the National Cancer Institute (NCI) in Jhajjar in Haryana - will commence OPD services from Tuesday 18th December 2018. Civil work and installation of basic equipment in the hospital's OPD block is complete and a day before the commencement of OPD services, the staff could be seen giving finishing touches for a smooth start of what is being touted as India's largest public funded hospital project to come up in decades. It is being built at a cost of Rs 2, 035 crores.

9.4: Lok Sabha passes Indian Medical Council (Amendment) Bill

The Lok Sabha on January 31, 2018 passed the Indian Medical Council (Amendment) Bill, allowing country's top education regulator (MCI) to be superseded by a Board of Governors (BoG). The bill will replace the ordinance promulgated by the President in September 2017. The powers of MCI have now been vested in the BoG comprising of prominent doctors and medical professionals headed by Niti Aayog member Dr. Vinod Paul. It includes directors of AIIMS, New Delhi and PGI, Chandigarh.

10. FORTHCOMING EVENTS

Calendar of Conferences, Conventions and Symposia in India and abroad

(Get your event listed in this section by mailing complete details to the Editor: rnkohli@gmail.com)

10.1: 28th National Congress of Veterinary Parasitology **and National Symposium on** “Novel Technologies and Strategies for Sustainable Control of Parasitic Diseases of Livestock, Poultry and Public Health Significance” **28th to 30th January 2019** Sri Venkateswara Veterinary University, **Tirupati**, is Being organized by Department of Veterinary Parasitology, College of Veterinary Science For Details Please Contact: Dr. V. Chengalva Rayulu; Organizing Secretary, 28th NCVP, Professor & Head, Dept. of Veterinary Parasitology, College of Veterinary Science, SVVU, Tirupati, 517502, Andhra Pradesh; Email: 28ncvp@gmail.com; Mobile: +919849113569

10.2: 19th Indian Veterinary Congress, XXVI Annual Conference of IAAVR **and National Symposium on** “Innovative Progress of Animal Health & Production for Safe Secured Food under One Health Perspective” **1-2 Feb 2019** at West Bengal University of Animal and Fishery Sciences (**WBUAFS**), **Kolkata**. Contact: Dr. Subhasis Batabyal: batabyals2009@gmail.com;, IAAVR 2019 iaavr2019@gmail.com.

10.3: XXXII Annual IAVMI Conference, **4th - 8th February 2019** at **Bihar Animal Sciences University (BASU), Patna**.

XXXII Annual Conference of Indian Association of Veterinary Microbiologists, Immunologists and Specialists in Infectious Diseases (IAVMI) will be held on 4th - 8th February 2019 at Bihar Animal Sciences University (BASU), Patna on the Theme “Scientific and technological innovations in Animal Healthcare for better production and trade” This scientific society is engaged in disseminating Veterinary Science especially microbiology related research among scientific fraternity for the last 40 years and also publishes a journal. Details: Ashok K. Tiwari aktiwari71d@gmail.com; 91-9457257425; www.basu.org.in

10.4: 47th Dairy Industry Conference, **7th to 9th February, 2019, Samrat Ashok Convention Centre, Patna, Bihar**. Organized by IDA (East Zone) on the Theme: “Innovative Approach for Enhancing Dairy Farmers’ Income”. For More Information: Email: idabihar2019@gmail.com; sks_682000@yahoo.com

10.5: Second AABP Recent Veterinary Graduate Conference, **Feb. 7-9, 2019, in Columbus, Ohio**. Organized and hosted by The American Association of Bovine Practitioners (AABP). Registration is limited to veterinarians who graduated from 2011 to 2018, and attendees must be AABP members. AABP is a membership-based, not-for-profit organization serving cattle veterinary medicine professionals across the United States, Canada and other countries.

Registration is now open at: http://aabp.org/recent_grad/register.asp; Visit: www.aabp.org

10.6: India International Dairy Expo (IIDEx) concurrent with a 2- day seminar on “Innovation & Technological Growth in Dairy Industry”, March 12 - 14, 2019, at Bombay Exhibition Centre, Mumbai, India.
Organized by Indian Dairy Association (West Zone) jointly with Koelnmesse YA Tradefair Pvt. Ltd. Details: Indian Dairy Association (West Zone) and Koelnmesse YA Tradefair Pvt Ltd. (E-mail: s.rane@koelnmesse-india.com)



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