



Jan. 2017

[www.navsindia.org](http://www.navsindia.org)

# NAVS NEWSLETTER

(Quarterly)

FOR PRIVATE CIRCULATION ONLY  
NEW DELHI

Editor: Prof. Dr. R.N. Kohli

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

Office: G-4, A Block, NASC, Dev Prakash Shastri Marg, New Delhi-110 012

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

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

**NEW DELHI NAVS NEWSLETTER JANUARY , 2017**

**The NAVS Newsletter is an Open Access Non-Commercial e-publication for private circulation to all those who are associated with the Academy, as well as to related Veterinary and allied institutions and organizations, and other interested professionals. It permits non-commercial reproduction of its contents to publications of similar readership in any medium, provided NAVS Newsletter is properly cited.**

**WE WISH OUR READERS A VERY HAPPY NEW YEAR 2017**

**CONTENTS**

1. NAVS General Information .....	3
2. NAVS News.....	.6
3. Editor's Note: .....	11
4. Letters to the Editor .....	12
5. From the President's Desk: .....	15
6. Vet Track:.....	19
6.1: Obituary - Dr. N.R. Bhasin; Dr. B. Panda.....	19
6.2: Appointments, Transfers, Promotions and Felicitations.....	20
7. View Point:.....	23
8. National & International Veterinary News .....	26
9. Science, Health & Society.....	32
10: Forthcoming Events (Calendar of Conferences, Conventions and Symposia in India and abroad) .....	35

**Cover design assistance: Mr. Narendra Pandey**

**All correspondence regarding the Newsletter may kindly be addressed to the Editor.**

**Editorial Contact: Prof. Dr. R.N. Kohli, 922, Sector - A (B&C), Vasant Kunj, New Delhi-110070**

**Email: [rnkohli@gmail.com](mailto:rnkohli@gmail.com); Telephones: 011- 46065021; (M) 09968920200.**

**NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)**

**Office: G-4, A Block, NASC, Dev Prakash Shastri Marg, New Delhi-110 012**

**[www.navsindia.org](http://www.navsindia.org)**

# 1: NAVS GENERAL INFORMATION

## 1.1: 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”.

## 1.2: GOVERNING COUNCIL 2016

### Office Bearers

President: Dr. K.M.L. Pathak; [pathakkml@yahoo.co.in](mailto:pathakkml@yahoo.co.in)

Vice-President: Maj. Gen. Shri Kant Sharma; [shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)

Secretary General: Dr. Rishendra Verma; [rishendra\\_verma@yahoo.com](mailto:rishendra_verma@yahoo.com)

Treasurer: Dr. Lal Krishna; [lalkrishna1948@rediffmail.com](mailto:lalkrishna1948@rediffmail.com)

Editor: Dr. R.N. Kohli; [rnkohli@gmail.com](mailto:rnkohli@gmail.com)

### Members

#### ELECTED

Dr. Y. Hari Babu: [y\\_haribabudr@yahoo.com](mailto:y_haribabudr@yahoo.com)

Dr. J. S. Bhatia: [bhatiajs05@rediffmail.com](mailto:bhatiajs05@rediffmail.com)

Col. Dr. R. P. Garg: (email ID not available)

Dr. D. N. Garg: [dng2660@gmail.com](mailto:dng2660@gmail.com)

Dr. S. K. Gupta: [skguptadr@gmail.com](mailto:skguptadr@gmail.com)

Dr. P. N. Khanna: [pran\\_khanna@rediffmail.com](mailto:pran_khanna@rediffmail.com)

Dr. Praveen Malik: [malikphisar@hotmail.com](mailto:malikphisar@hotmail.com)

Dr. Asim K. Pal: [akpal53@gmail.com](mailto:akpal53@gmail.com)

Col. Dr. Tej Ram: [dr.tejram@gmail.com](mailto:dr.tejram@gmail.com)

Dr. S. Ramanathan: [animaldr1@gmail.com](mailto:animaldr1@gmail.com)

Dr. T.S. Chandrasekhara Rao: [tammineedirao@rediffmail.com](mailto:tammineedirao@rediffmail.com)

Dr. S. S. Rathore: [msinghthakur@gmail.com](mailto:msinghthakur@gmail.com)

Dr. S. K. Saha: [subodhksaha@yahoo.com](mailto:subodhksaha@yahoo.com)

Maj. Gen. Dr. M. L. Sharma: [sharmaml@thebrookeindia.org](mailto:sharmaml@thebrookeindia.org)

Dr. J. L. Vegad: [vegadjl@yahoo.com](mailto:vegadjl@yahoo.com)

#### EX-OFFICIO

DG RVS: Lt Gen Jagvinder Singh: [jsbalhara@hotmail.com](mailto:jsbalhara@hotmail.com)

DDG (A.S.), ICAR: Dr. Habibar Rahman: [hricar@gmail.com](mailto:hricar@gmail.com)

AHC (M.o.A, GOI): Dr. Suresh S Honnappagol; [sskvafsu@yahoo.co.in](mailto:sskvafsu@yahoo.co.in)

President VCI: Dr. Umesh Chandra Sharma; [<presidentvci@gmail.com>](mailto:presidentvci@gmail.com)

Editor NAVS: Dr. R.N. Kohli; [rnkohli@gmail.com](mailto:rnkohli@gmail.com)

### **1.3: PATRONS, HONORARY FELLOWS & INSTITUTIONAL/CORPORATE LIFE MEMBERS**

#### **PATRONS**

**Dr. R.P.S. Tyagi (2004)**

#### **HONORARY FELLOWS**

**Shri. Sirajudin Qureshi (2006); Dr. N.R. Bhasin (2011);  
Shri Sushil Kumar Agrawal (2012); Dr. Sanjeev Kumar Balyan (2014)**

#### **INSTITUTIONAL LIFE MEMBERS**

**LUVAS (Lala Lajpat Rai University of Veterinary & Animal Sciences), Hisar  
CKVU (Chattisgarh Kamdhenu Veterinary University), Raipur  
MAFSU (Maharashtra Animal & Fisheries Sciences University), Nagpur  
RAJUVAS (Rajasthan University of Veterinary & Animal Sciences), Bikaner  
KCVAS (Khalsa College of Veterinary & Animal Sciences), Amritsar**

#### **CORPORATE LIFE MEMBERS**

**M/S Indian Herbs, Saharanpur**

### **1.4: 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**

#### **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**

#### **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**

#### **Treasurers**

**Dr. A. Ahmad and Dr. B.S. Malik} -1993 - 2004**

**Dr. P.N. Khanna -2004-2007**

**Dr. Lal Krishna - 2007 onwards**

#### **Editors**

**Dr. R.N. Kohli - 6/7/2009 onwards (Founder Editor)**

-----  
**\* Since deceased**



## **1.5: INSTITUTIONAL & CORPORATE 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**

### **CORPORATE LIFE MEMBER**

**M/S Indian Herbs, Saharanpur**

### **INSTITUTIONAL ANNUAL MEMBER for the YEAR 2016-17**

**KUVAS (Kerala University of Veterinary & Animal Sciences), Kerala**

## **1.6: CHRONOLGY OF NAVS CONVOCATIONS-CUM-CONVENTIONS**

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

## **2: NAVS NEWS**

### **2.1: NAVS Convocation-cum-Symposium held at Amritsar**

The Khalsa College of Veterinary & Animal Sciences (KCVAS), Amritsar hosted The 15<sup>th</sup> Convocation of National Academy of Veterinary Sciences (NAVS) and National symposium on “Sustainable Livestock Development for Food and Nutritional Security: way forward”, on 22<sup>nd</sup> October, 2016. The KCVAS has been the first recently established Veterinary College in the Private Sector to have organized such a mega event.

Before the convocation ceremony, Dr. S.K. Jand, Principal KCVAS-cum-organizing Secretary of the event, warmly welcomed the dignitaries, participants, fellows of the Academy and all the guests who had come from all parts of India.

Thereafter, Dr. K.M.L. Pathak, NAVS President and Vice Chancellor of Deen Dayal Upadhaya Veterinary and Animal Sciences University (DUVASU), Mathura, conferred NAVS fellowships to the following recipients:

1. Dr. S. Thilagar, VC, TANUVAS, Chennai
2. Dr. Sanjeev Kumar, PS, CARI, Izatnagar
3. Dr. V.K. Saxena, PS, CARI, Izatnagar
4. Dr. A.K. Tiwari, Head, Standardization, IVRI, Izatnagar
5. Dr. R.C. Patra, Dean, COVSc, Bhubaneswar
6. Dr. L.D. Singla, Prof. GADVASU, Ludhiana

Sardar Rajinder Mohan Singh Chhina Honorary Secretary of Khalsa College Charitable Society, accorded warm welcome to the dignitaries for having taken pains to participate in this National event. Such events being organized at KCVAS act as a moral booster for the faculty of the college. He also offered the facilities available at this college for organizing professional scientific meets in future.

The Chief Guest Dr. M.P. Yadav in his inaugural address felicitated the recipients of NAVS fellowship, which in itself is a rare distinction in the professional arena. He expressed hope that their active participation in the pursuit of the activity of the academy would go long way in strengthening the development activities of Livestock Sector.

The President of the academy, Prof. K.M.L. Pathak, lauded the efforts of the management body of the Khalsa College Charitable Society and Principal and faculty of KCVAS to have taken bold initiative to host this National event. He also released the latest edition of the NAVS booklet on its “Rules and Regulations” (as amended up to November 4, 2015). He appreciated the work of NAVS Editor, Prof. R.N. Kohli, and invited him on the Dias to felicitate him.

Sardar Satyajit Singh Majithia, President of the Khalsa College Charitable Society expressed his happiness that the academy has reposed faith in this college/society in organizing National Scientific events that has

relevance toward livestock developmental programs. He assured that all out efforts would be made by the college to participate in development of Livestock Sector especially in the State of Punjab.

The Participants of these, National events included seven VCs (Dr. A.S. Nanda, GADVASU, Dr. K.M.L. Pathak, Mathura, Major Gen. Dr. Shrikant, Hisar, Dr. A.K. Gahlot, Bikaner, Dr. P.D. Juyal, Jabalpur, Dr. S. Thilagar, Chennai), Director-cum VC of Deemed University IVRI, Dr. R.K. Singh, and its Former Director, Dr. M.P. Yadav, VCI office bearer (Dr. Gurdial Singh Vice President), & NAVS Office Bearers including Dr. Rishendra Verma, Sec. Gen., Dr. Lal Krishna, Treasurer, and Editor, Prof. R.N. Kohli and other members of NAVS' Governing Council, faculty members from different veterinary Universities/Colleges and senior functionary of State Animal Husbandry Department etc.

At the end on the behalf of the academy Dr. Rishinder Verma proposed the vote of thanks to all the dignitaries on the dias, participants, recipients of the fellowship and guests.

The scientific deliberations as a part of National Symposium continued thereafter from the afternoon session. The eminent speakers on the focus theme of the symposium included:

1. Dr. R.K. Singh, Directors-cum VC, IVRI
2. Dr. Bhushan Tyagi, Joint Commissioner A.H. Govt. of India.

These presentations were followed by open house discussion.

Dr. A.S. Nanda, Vice-Chancellor, GADVASU, Ludhiana congratulated KCVAS for organizing the important national event. He highlighted the contribution of Punjab in food security to the masses of our country and emphasized that sustainable livestock development is the only way to meet the nutritional demands in the coming years.

At the end a colorful cultural programme was organized by the KCVAS students (who were even joined by members of the staff) in entertaining the guests with skits, dances and music etc.. The audience was very appreciative of the talented performers.

NAVS Meetings: A meeting of the NAVS Governing Council was held on 21<sup>st</sup> October 2016 and that of the NAVS General Body on 22<sup>nd</sup> October 2016 at Amritsar, during the NAVS Convocation-cum-Convention.

#### ABOUT OUR HOST

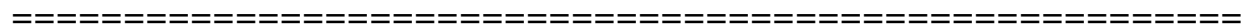
The Khalsa College of Veterinary and Animal Sciences (KCVAS), Amritsar, Punjab was established in 2010 as a constituent institution of Khalsa College Charitable Society and is engaged in imparting quality veterinary education, developing entrepreneurial skills, providing scientific guidance and state of the art veterinary clinical services to livestock owners. The highly qualified and dedicated faculty of this college is mainly engaged in teaching, consultancy and technological transfer activity.

# Amritsar Photo Album









## 2.2: Returning Officer of NAVS Elections seeks nominations

By a letter dated Dec. 1, 2016, the returning officer D. V.P. Singh has sought nominations from the NAVS Fellows for contesting Elections to the Next Governing Council of NAVS (Jan. 1, 2017- Dec. 31, 2019) for. The last date for receipt of nominations by the returning officer is 16<sup>th</sup> January 2017. The Fellows of the Academy, if any, who have not received the notification may contact the returning officer (Dr. V.P. Singh, Director, National Institute of High Security Animal Diseases, Hathaikheda Dam Road, Anand Nagar, Bhopal-462022 (M.P.) Phone: 0755-2759204;  
 Email: [navsro2016@gmail.com](mailto:navsro2016@gmail.com); [vijendra61@gmail.com](mailto:vijendra61@gmail.com)

### **3. EDITOR'S NOTE**

#### **3.1: NAVS HAND BOOK 2016**

Soon after I took over as NAVS Secretary-cum-Editor in 2009 a directory was published in which the NAVS Fellows and Members were listed for the first time in an alphabetical order. At the time of release of this publication in 2010 it was decided to commence a gradual transformation of its contents for future publications by including a brief profile of the fellows and members, apart making some other changes. A start had already been made then in the aforesaid directory by including the profiles of the members of the governing council and of the most recent fellows elected in 2008-2009. It was editorially stated then that future editions will ultimately include the profiles of all the fellows and the members.



In fact there has always been a general desire among the Fellowship and Membership for publication of this type of Hand Book. However, despite abundant encouragement and efforts from the past two Governing Councils presided over by Dr. R.R. Shukla and Dr. M.P. Yadav. We were unable to fructify the idea earlier due to justifiable reasons. Credit must go to current president, Dr. KML Pathak, for taking the initiative once again to fulfill the dreams of the past Presidents and their Governing Councils which included the Editor, apart from Fellowship & Membership of the Academy. We took up the challenge single handedly in late 2015. The president was fully convinced (more than I myself was), that I could do the job single handedly. He gave me a free hand and I am profoundly grateful to him and to the past presidents for their inspiring encouragement and for always appreciating my work and for their trust in me. As a result of our efforts the NAVS Hand Book 2016 is ready and is about to be released and circulated very soon.

I regret that it took more time than originally anticipated to bring out the Hand Book, but being the first edition there were many obstacles that had to be overcome. Some of the fellows could not be reached and a few others were unable to send us their profiles, obviously for justifiable reasons. The efforts put in now are bound to make the production of the next edition easier. The Academy would be 25 years young in 2018 and I propose that the next more inclusive and better edition with the profiles not only of all the Fellows but also of Members and Associate Members be brought out then to celebrate the occasion. Thanking and wishing you a very happy new year 2017.

#### **3.2: Editor's Term Expires on 31<sup>st</sup> December, 2016**

My term as NAVS Editor expires on 31<sup>st</sup> December, 2016 along with that of rest of the Governing Council Members. I whole-heartedly and sincerely thank everybody associated with the Academy for co-operating with me and appreciating my work since July 2009 to date.

Prof. R.N. Kohli ([rnkohli@gmail.com](mailto:rnkohli@gmail.com))



#### **4. LETTERS TO THE EDITOR**

Dear Dr Kohli, It was a great pleasure to have your communication and a welcomed one from our Distinguished Editor who is doing an excellent job to keep us informed. I could not respond you quickly as I was out traveling. I am thankful for the kind words you have for me and contributions mentioned in the bio-data. Yes, it has been a toil through which we all have gone and what we see is a collective effort of many. The bio-data had been written in the format provided, but as its length has exceeded (although only the salient highlights have been given in it), I have, as desired, attempted to concise the formatted information considerably to the best possible structure without grossly compromising the content. The revised and abridged draft is enclosed as attachment to this mail. I have also pleasure to convey that you may enjoy full liberty to edit information the way you think will be appropriate and necessary. I am fully with you please. Regarding the news item in NAVS Newsletter (in which Dr Singh has been mentioned), we have not received any mail or circular from Dr Singh. Could I have update on that?

Prof. Dr. Moti Lal Madan, 842, Sector 6, Urban Estate, Karnal-132001, Haryana. Phone: +91-184-2284783 (R) +91-9896017878 (M); Email ID: <[mlmadan@hotmail.com](mailto:mlmadan@hotmail.com)>.

Prof. Dr. Kohli you are an expert in many things including preparing the NAVS Newsletter, which always comes out punctually every time. My sincere congratulations to you.

Prof. Dr. Amreek Singh, 39, Westwood Crescent, Charlottetown PE CIA 8X4, Canada; Telephone Residence: +011-902-892-0048; Email ID: [singh@upei.ca](mailto:singh@upei.ca)

Dear Dr. Kohli, I always enjoy reading the NAVS Newsletter. What I liked is its consistent punctuality in publishing the Newsletter and covering wide array of subjects not only in our field but from others too. Some of the news are so exciting that I have forwarded the Newsletter issues to my collaborators in other countries too. The consistency and quality of Newsletter is impossible without your extraordinary efforts to bring it to the present state.

Dr Arvind Ingle, Scientific Officer 'G', Officer-in-Charge, Laboratory Animal Facility, Tata Memorial Centre, ACTREC, Kharghar, Navi Mumbai- 410 210, MS. India. Tel.- 91- 22- 27405047; Cell- 09969855176; [aingle@actrec.gov.in](mailto:aingle@actrec.gov.in) (President, LASA India [www.lasaindia.in](http://www.lasaindia.in))

Respected Prof. R N Kohli, I am not a Veterinarian, and yet I look forward to receiving your NAVS Newsletter with great interest! I had often wondered as to why and how the quality and content of the NAVS Newsletter were so good! I am glad that you have so lovingly revealed the secret through your Editors' Note on Page 8--A Personal Strategy. Kindly accept my salutations for the advice you have given in the last Para. With kind regards,



**Dr Ravish C Maheshwari, Former Vice Chancellor, SDAU, Gujarat. 301 Valley View Estate, Gwal Pahari, Gurgaon, 122003; Email: [ravish.maheshwari@gmail.com](mailto:ravish.maheshwari@gmail.com) [maheshwarirc2002@yahoo.co.in](mailto:maheshwarirc2002@yahoo.co.in); Tel: 0124-2588129; Mobile 09868140301**

**Respected sir, I have received your kind mail along with Oct.'16 issue of NAVS Newsletter. Sir your efforts are great and provide updated and complete information for the Veterinary and Allied Professionals. We are very thankful and I express my best gratitude for the same. With my best regards;  
Dr. D.C. Shukla, email ID Dinesh Shukla <[dcshukla8@hotmail.com](mailto:dcshukla8@hotmail.com)>**

**Dear Prof. Kohli, I could see the October, 2016 issue of the NAVS Newsletter yesterday night and was very much impressed with your esteem devotion for the profession and have led a life of your choice with out any compromise on principles. These days such people are rare. You have the capacity to turn the bitter experiences of life into sweet memories as a part of learning lessons in this unique society, even at this advance age of 84. We wish you a healthy a productive life full of satisfaction. With my best regards;  
Prof. (Dr.) M. P. Yadav, Secretary, NAAS, Editor, Agricultural Research, President, IAVMI. email: <[yadav\\_mp@hotmail.com](mailto:yadav_mp@hotmail.com)>**

**Respected Sir, I was extremely happy to browse the October |issue of the NAVS Newsletter. The issue is full of exciting and intellectual writings and contents. Expressions like Cut and Paste by President, Personal strategy by you, and writing by Dr Khub Singh, Animals in human development by Dr Rama Kumar are exciting reads and praiseworthy. Snippets and other information including marching ahead and reforms by Dr Umesh Sharma have been highlighted for informing the profession which fulfills the objective of the Newsletter. Congratulations to you and all the contributors for bringing out this issue for the benefit of the profession and community. With kind regards;  
Dr. R.K. Singh, Director/Vice Chancellor, Indian Veterinary Research Institute (Deemed University), Izatnagar-243 122, India, Phone: +91-581-2300096, Fax-no. +91-581-2303284; [rks\\_virology@rediffmail.com](mailto:rks_virology@rediffmail.com); [directorivri@gmail.com](mailto:directorivri@gmail.com);**

**Respected Prof. Kohli, Sir, It has been very heartening to read your Editor's Note. I hope this will inspire a lot of younger ones as it has inspired me. I would also like to appreciate the beautiful cover photo of the NAVS Newsletter.  
Dr. S.C. Kohli, M.D (Medicine), Professor of Medicine, Chief, Internal Medicine, Manipal College of Medical Sciences, Pokhara (Nepal); <[profsc kohli@rediffmail.com](mailto:profsc kohli@rediffmail.com)>**

**Respected Prof. Dr. Kohli, the October 2016 issue of NAVS Newsletter contains a plethora of information on a variety of topics. I heartily congratulate you for doing commendable job at this age by publishing this for the Academy very regularly, and then circulating to all the Fellows and Members. I pray to God to bless you a happy and healthy long life. With kindest warm regards;**

Prof. Dr. Mahendra Pal, Addis Ababa University, College of Veterinary Medicine, Department of Microbiology, Immunology and Public Health, P.O.Box: 34, Debre Zeit, Ethiopia; email ID: [palmahendra2@gmail.com](mailto:palmahendra2@gmail.com)

You have done a wonderful job in bringing out the Oct. 2016 issue of NAVS Newsletter. Keep it up.

Brig. V.P. Manchanda <[brigvpmanchanda@gmail.com](mailto:brigvpmanchanda@gmail.com)>

Respected Prof Kohli, Greetings! As has become a convention with the 'NAVS Newsletter', the present issue is equally informative, inspiring and reminds one about his/her proud professional existence. And, many congratulations for sharing your own feelings through the EDITORIAL which I consider is exemplary and a food-for-thought for many of the younger professionals.

Dr. Ashok Pattanaik, FNAVS, Fulbright-Nehru Fellow, 1136E, Carl R. Woese Institute for Genomic Biology, University of Illinois, Urbana 61801, IL, USA; E-mail: [ashokkp@illinois.edu](mailto:ashokkp@illinois.edu); Ph: +1-217-377-6341

Dear Sir, I am thankful to you for sending me the NAVS newsletter which is very useful to the society. However we have to put efforts to reduce the malnutrition, under-nutrition and over nutrition among the society with the help of animal wealth particularly through dairy cattle as per the advice of Dr. Kurien. I am practicing the same in the most backward area of eastern U.P. Though there is adequate potential in that area, but after my experience in working with AMUL, NDDDB, Reliance, World Bank, ADB and other projects I feel that it is tough and more challenging to work in U.P. Though, UNDP has helped to donate 6 BMCU to preserve the milk by cooling at the village level, there is no support from government for developing other infrastructure such as clean milk production, productivity enhancement and other infrastructure.

However persons like you are there to support the common objective. Even if we help around one lakh people, it will be of great contribution to the society. Please take care of your health. I hope that Dr. Bhasin (President, Indian Dairy Association) is in good health. With warm regards & thanks;

Raja Rathinam <[drraja1@gmail.com](mailto:drraja1@gmail.com)>

Dear Dr Kohli, Hearty congratulations on two accounts: For being entered into 84th year of your life journey recently and myself also being Octogenarians have the special privilege to extend you belated happy birthday as well continued good healthy & eventful life! God bless you!

I am equally enthralled to find the NAVS NEWSLETTER, over the years, under your able leadership achieved a remarkable transformation both in terms of contents as well presentation quality!

Animesh Banerjee, Former President, Indian Dairy Association, Email ID: <[banerjeeanimesh@rediffmail.com](mailto:banerjeeanimesh@rediffmail.com)>

Great efforts as usual; Dr Jitendra Singh Bhatia, Former ADG (Education), ICAR, Email ID: <[bhatiajs05@rediffmail.com](mailto:bhatiajs05@rediffmail.com)>



## **5: FROM THE PRESIDENT'S DESK**

As you are aware, the term of the current Governing Council expires on 31<sup>st</sup> December 2016 and the process for election of the next council is on. As per rules, the current council will remain in position only till the next council for the term 2017 - 2019 is elected.

I wish to take this opportunity to thank you for your co-operation in my sincere efforts to enhance the status and activities of the Academy during my tenure as its President from January 2014 onwards. I consider my unopposed election to the coveted position of President of NAVS as one of the major achievements in my professional career. In my first message I wrote: "The Academy had been pursuing for promotion and excellence in veterinary animal sciences. Though it had its own way of functioning, it made its presence felt in the arena of veterinary sciences. I assure you that in times to come we shall persevere together to take it to a new phase of its dignity and identification." I was (and still am) conscious of the fact that most of the members of Academy are very senior and experienced persons. The onus of the Academy is to preserve their status as well as to harness the benefits towards growth of livestock sector in country. I sought their cooperation to make the Academy more tangible and a place for interactive functioning.

I took over as President, along with the other newly elected Office Bearers and Members of the Governing Council (G.C.) on 1<sup>st</sup> January 2014. The past President, Prof Dr. M.P. Yadav, the past Secretary General, Prof. Dr. Gaya Prasad and the founder Editor of the Academy, Prof. Dr. R.N. Kohli, continued in the new G.C. as ex-officio members. The treasurer, Dr. Lal Krishna, also continued upon his re-election. Maj. Gen. Shri Kant and Prof. Dr. Rishendra Verma, the Vice-President and Secretary General, respectively, were the new elected office bearers of the team. Along with the members elected by the General Body and the Editor elected / nominated by the Governing Council, the persons holding the offices of DG RVS, DDG (A.S.) ICAR, AHC (M.o.A, GOI), President VCI, Immediate Past President NAVS and Immediate Past Secretary General NAVS were the Ex-Officio Members of the Governing Council. With the active co-operative collaboration of this team and support of the Fellowship and Membership, I was able to achieve further progress in the activities of the Academy.

Since Dr. C.M. Singh, the Founding President of the Academy concurrently held the position of President, Veterinary Council of India (VCI), Academy functioned from the VCI office from its inception till 2003, when VCI asked the NAVS to move its office to some where else. While moves were initiated to shift the Academy's office to some other place, the GC meetings continued to be held at VCI. The elections to elect a new GC were held from 1<sup>st</sup>

April 2004 but unfortunately, Dr CM Singh expired on 29th June 2004. Academy temporarily functioned from 2004 to 2007 at the premises of Hind Agro Industries Ltd (HAIL) as the newly elected President of the Academy (Dr. S.K. Ranjhan) was associated with this firm. However, the Academy did not succeed in finding a suitable location between 2007 and 2013 during the tenures of two subsequent Governing Councils. In this regard, my tenure was a way forward and started on a happy note as we were successful in getting an office room allotted to NAVS in the NASC Complex in New Delhi by the Secretary, DARE and Director General, ICAR (Dr. S. Ayyappan), who inaugurated our office on 15<sup>th</sup> January 2014 to fulfill the long-felt need & desire of the Academy. The NAVS recorded its profound appreciation to Dr. S. Ayyappan for this gracious gesture.

I am extremely happy that we were able to successfully hold four convocations during our tenure at LUVAS, Hisar, Haryana, in January 2014, at CGKV, at Durg, Chhatisgarh in February 2015, at IVRI, Izatnagar, U.P. in November, 2015 and at KCVAS, Amritsar, Punjab, in October, 2016. I take this opportunity to congratulate the colleagues who were conferred with Fellowships (27), Memberships (7) and Associate Memberships (3) at these convocations. We welcome them to these exclusive exalted groups to cultivate and uphold professional dignity and values, and to contribute their bit in pursuing our objectives for national betterment. It may be stated with pride that apart from these convocations, an Honorary Fellowship was awarded to Dr. Sanjeev Kumar Balyan, a distinguished veterinarian Minister of State in the Central Government, at a special ceremony at New Delhi in 2014.

Each of these convocations was accompanied by a national convention/symposium/ conference on a subject of current interest. We are grateful to the hosting institutions for the grand success of these events. Apart from the aforesaid conferences organized along with the convocations, the Academy also organized two expert consultation meets in collaboration with ICAR one on 'Strategies for breeding Buffaloes Round the Year' and the other on 'Strategies for Enhancing Milk Productivity of Indigenous Cattle' in July, 2014 and October, 2014, respectively. We thank the speakers who made their valuable presentations at all the national conventions/conferences/ seminars. I too made a special presentation about NAVS and its activities to a group of several other academies of the country at an event organized by NAAS.

As far as publications of the Academy are concerned, we have made tremendous progress. Before I took over, the past president had put on record the unique contribution of Prof. (Dr.) R.N. Kohli, the Founder Editor of the Academy since July 2009, in single handily bringing out regularly the quarterly electronic Newsletter of the Academy, which has received wide acclaim and appreciation from one and all. The NAVS Newsletter is indeed a unique Kaleidoscope of happenings, ideas, useful information and knowledge-sharing in a quarterly package of uncompromising quality and content brought out on-



line regularly. I too joined the past president in making an honorable mention of its dedicated Editor, for his selfless service to our veterinary fraternity. Now, after an experience of another 3 years as President, I must not only endorse what we said earlier but reinforce our appreciation for his commitment to have worked for the Academy with added energy, his age (83+) notwithstanding. The quality of the Newsletter has further improved and it is regarded in India and abroad as the 'Face of the Academy'. The 12 issues of NAVS Newsletter produced during the three year period had a combined length of 470 pages. During the same period, the Academy also published the following booklets, almost all of which were also edited by Dr. Kohli:

1. NAVS Communication Directory 2014 (64 Pages)
2. Proceedings of ICAR- NAVS Expert Consultation on Strategies for breeding Buffaloes Round the Year held on 4<sup>th</sup> July, 2014.
3. Proceedings of ICAR- NAVS Expert Consultation on Strategies for Enhancing Milk Productivity of Indigenous Cattle held on 20<sup>th</sup> October, 2014.
4. NAVS Policy Paper No. 2: Human Resource Needs in Veterinary and Animal Sciences, August, 2015.
5. NAVS Policy Paper No. 3: Ethno-veterinary Medicine: A Concept for Sustainable Livestock Production, October 2015.
6. NAVS Rules and Regulations (as amended up to Nov. 2015) (30 Pages), April 2016
7. NAVS Hand Book - 2016: Compiled and edited by Prof. R.N. Kohli, the first ever publication of this nature and magnitude brought out by the Academy to fulfill a longstanding demand of the Indian Veterinary Academicians, living in India and abroad.

The financial status of the Academy has also stabilized during this period with the joining of new Institutional and corporate life members. The current members in this category are: LUVAS, Hisar; CKVU, Durg; MAFSU, Nagpur; RAJUVAS, Bikaner; DUVASU, Mathura; and KCVAS, Amritsar (as Institutional Life Members) and Indian Herbs, Saharanpur (as Corporate Life Member). KVASU, Kerala, is an Annual Institutional Member for the year 2016-17.

I take this opportunity to heartily greet all the members of the Governing Council and the general body of the Academy (including the newly inducted Fellows and Members) and the whole veterinary fraternity of the country and solicit their co-operation to join hands in fulfilling our professional tasks and in taking the NAVS (I) to greater heights. I thank all my colleagues in the Academy for co-operating with me during my tenure. All have contributed their bit in taking the NAVS (I) to greater heights. I am of the view that stronger liaison between NAVS and the government will greatly facilitate our professional progress. We are also happy to have on board, the President, Veterinary Council of India and the Animal Husbandry Commissioner, Govt. of India as ex-officio members of the Governing Council. This helps to ensure that the regulatory bodies and NAVS work in close cooperation for the common cause and avoid possible areas of trespass or clash of interest. It should give us all a

sense of joy that for the first time since its inception in 1993, the Academy has an official office of its own, which was the dream of our Founder President, Dr. C.M. Singh – a great Visionary. Let us rejoice it.

Wishing all a Very Happy New Year and looking to a new dawn of Academic Excellence in 2017 and onwards. Kindly continue to co-operate with the Academy by providing brief items of professional interest for the future Newsletters. We would also appreciate if larger number of Fellows, Members and Associate Members of the Academy as well as other professionals participate in the activities of the Academy.

Prof. K.M.L. Pathak  
([pathakkml@yahoo.co.in](mailto:pathakkml@yahoo.co.in))

#### **CONTACT US**

**PRESIDENT:** Prof. Dr. K.M.L. Pathak, Vice-Chancellor, Deen Dayal Upadya Veterinary and Animal Sciences University, Mathura, U.P. Email: [pathakkml@yahoo.co.in](mailto:pathakkml@yahoo.co.in)

**VICE-PRESIDENT:** Maj. Gen. Shri Kant Sharma, Vice-Chancellor, Lala Lajpar Rai University of Veterinary and Animal Sciences, Hisar (Haryana). Email: [shrikant28@hotmail.com](mailto:shrikant28@hotmail.com)

**SECRETARY GENERAL** Dr. Rishendra Verma, Former Joint Director, Centre for Animal Disease Research and Diagnosis (CADRAD), I.V.R.I. Contact#: +91-9359117376(M), +91-581-2586453 (R) Email: [rishendra\\_verma@yahoo.com](mailto:rishendra_verma@yahoo.com)

**TREASURER:** Dr. Lal Krishna, C-302, Exotica Elegence, Ahimsa Khand-II, Plot No. 9-A, Indrapuram – 201010, Ghaziabad (U.P.). Phone: 09350586550; Email: [lalkrishna1948@rediffmail.com](mailto:lalkrishna1948@rediffmail.com)

**EDITOR:** Prof. Dr. R.N. Kohli, 922, Sector - A (B&C), Vasant Kunj, New Delhi-110070; Telephones: 011-46065021; 09968920200; Email ID: [rnkohli@gmail.com](mailto:rnkohli@gmail.com)

## **6: VET TRACKS**

### **6-A: Obituary**

#### **6-A.1: Dr. Nek Ram Bhasin is no more**

With profound grief we inform you of the sad demise on 15<sup>th</sup> December 2016 of Dr. N.R. Bhasin, an Honorary Fellow of NAVS, National President of Indian Dairy Association, an experienced and able administrator (IAS, retired) and an eminent veterinary scientist.

Dr. Bhasin was born in District Sargodha, Undivided India, on 10 August 1940 and was educated at Veterinary College, Bikaner, Rajasthan for his B.V.Sc. & A.H. degree (1960) and in Agra University for his M.V.Sc. degree (1964). He Joined IAS in 1968 and was awarded his Ph.D. degree in Animal Genetics & Breeding from U.P. Agricultural University, Pantnagar, in 1969.

During his long professional career he served he country in various capacities. Forty years professional experience in project formation and implementation in various capacities as an IAS Officer in India and abroad including the following: Principal Secretary to Govt. of Rajasthan 1994 to 2002;



State Election Commissioner Rajasthan, (2000 - 02); Joint Secretary, Ministry of Rural Development 1987 - 1989; Director Agriculture Commodity Division, Ministry of Commerce Govt. of India 1984 - 1987; Managing Director, Rajasthan State Dairy Development Corporation 1975 - 1984. Consultant with FAO, IFAD and World Bank for preparation of Rural Development projects for several countries including Bangladesh, Burma, Gambia, Kenya, Eritria, Sudan, St. Kitts and Nevis, Assam. Held numerous other prestigious positions in Agriculture and dairying organizations / institutions including being the Vice-Chancellor of Rajasthan Agricultural University, Bikaner, Rajasthan. Post retirement he served as Vice-President Indian Dairy Association (1996 - 2007) and President, Indian Dairy Association (July 2007 to date).

Dr. Bhasin was felicitated with following Awards and Honours during his career: D.Sc. (Honoris Causa) UPAU, Pantnagar (1995) and D.Sc. (Honoris Causa) ICAR-NDRI (2013). Chairman, Planning Commission's Working Group on Animal Husbandry & Dairying for 11<sup>th</sup> Five Year Plan (2007-2012) and Member of the same for 10<sup>th</sup> Five Year Plan; Chairman Planning Commission's Working Group on Milk Products for 9<sup>th</sup> Five Year Plan.

Apart from being an Honorary Fellow of our Academy, he was also a Commonwealth Fellow of British Council, University of Birmingham, U.K. (1993). Areas of specialization and research included Animal Genetics and Breeding and Livestock Development. He was the Chairman of Research Advisory Committees of ICAR, NDRI, NRC on Camel etc and Member of many scientific panels of ICAR, NDRI, IVRI including Member of the Board of Management of NDRI.

The news of the sad demise of Dr N.R. Bhasin was very shocking to all those who were associated with him in various capacities. It is a great loss to the Veterinary Profession and scientific fraternity at large. For the members of his family and close friends (including the NAVS Editor) the grief was unbearable. Services of Dr Bhasin will always be remembered. We offer our heartfelt condolences to the bereaved family, pay my homage to and pray to the Almighty for peace of the departed soul.

### **6-A.2: Sad Demise of Dr. Bhagabat Panda**

We inform you with deep regret that Dr. Bhagabat Panda, a founder Fellow of NAVS passed away on December 16th, 2016 at Bhubaneswar. He had a fall and brain injury leading to his demise.



Dr. B. Panda was born in Makanda Village on March 16, 1926, got his B.V.Sc. in 1953 from Bombay University and MS (1960) and Ph.D.(1963) from Maryland University, USA. Areas of his specialization and research included Poultry Science, Nutrition and Physiology in which he published 280 Research articles to become a famous poultry scientist of repute.

During his career, he served as the founder Director of Central Avian Research Institute and Head Division of Poultry Research at IVRI, Izatnagar, and as Senior Scientist, Central Food Technology Research Institute (CSIR). Beside, he was the President, Indian Poultry Science Association; Chief Editor, Indian Poultry Science Journal; Member, Editorial Board, World Poultry Science Journal and was elected to the International Poultry Hall of Fame by the World Poultry Science Association,

The Academy mourns his death and prays for peace to his departed soul.  
Email ID of Dr. Panda's daughter: <[aruna.panda@gmail.com](mailto:aruna.panda@gmail.com)>

### **5-B: Appointments, transfers, promotions, awards, honors and felicitations**

#### **6-B.1: Dr. Ashok Pattanaik to get received Fulbright-Nehru Fellowship**

Dr. Ashok Kumar Pattanaik, Principal Scientist, Division of Animal Nutrition, ICAR-Indian Veterinary Research Institute and a Fellow of the Academy has been selected for the Fulbright-Nehru Academic and Professional Excellence fellowship for the year 2016-17. The prestigious fellowship by the US Department of States is administered in India by the United States-India International Education Fund. Dr. Pattanaik is the first Animal Nutritionist in the country to get this coveted fellowship. Under the current fellowship he has been deputed to University of Illinois, Urbana-Champaign, IL,





USA to carry out advanced research in the area of “Nutrition and microbiota interaction in early life: impact on gut microbiome, cellular immunity and gene expression” in the Department of Food Science and Human Nutrition. We congratulate Dr. Ashok Pattanaik for his achievement.

#### 6-B.2: Dr. Arvind Ingle selected as President of AFLAS

Dr Arvind Ingle, President, LASA India, Scientific Officer 'G', Officer-in-Charge, Laboratory Animal Facility, Tata Memorial Centre, ACTREC, Kharghar, Navi Mumbai- 410 210I, writes to inform us that he has been selected as a President of AFLAS Associations <http://aflas-office.org/> for next 2 years in its meeting held in Singapore recently. We heartily congratulate Dr. Ingle at his achievement and thank him for sharing this news with us. Dr. Ingle's email ID: <aingle@actrec.gov.in>; [www.lasaindia.in](http://www.lasaindia.in)

#### 6-B.3: Veterinary University Honours Prof. K. Pradhan



“Prof.D. Anjaneya Prasad Life Time for an Animal Nutritionist of India” was awarded to Prof. K. Pradhan for the year 2016. The Award carries with it a cash of Rs. 1,00,000/- and was instituted by the university with endowment fund donated by Dr. Prathap V. Reddy of USA and named after an eminent Animal Nutritionist and former Dean, Faculty of Veterinary Science, A.P.Agricultural University, Hyderabad.

Prof. (Dr.) Khageswar Pradhan, born on 9th April,1936 in Orissa is a distinguished academician having long years of experience as Professor, Dean, Director, Vice-Chancellor of two Agricultural Universities, currently Chancellor of a private General University. He is also engaged in social activities working as Chairman and Managing Trustee of a Public and Charitable Educational Trust for Orphan and Poor. He has been honoured by two universities with D.Sc. (Hon.Causa). He has over 180 publications to his credit.

We heartily congratulate Dr. Pradhan for this achievement.

#### **6-B.4: Prof. (Dr.) M.P. Yadav Felicitated**

Prof. (Dr.) M.P. Yadav, Secretary NAAS and Ex-President NAVS, has been conferred Prof. K.S. Bhargava Oration award of Indian Virological Society (IVS). The award was given on 8 December, 2016 during the International Conference of IVS “VIROCON – 2016”, held at Indian Institute of Horticultural Research, Bengaluru, Karnataka, for his outstanding contributions to veterinary virology. Prof. Yadav delivered an Oration Award Lecture “FAO-OIEs Perspective on Global Control and Eradication of Peste des Petits Ruminants (PPR)” during the conference. We congratulate Prof. Yadav for this achievement.



## **7. VIEW POINT**

### **7.1: Veterinary education and practices in India are in dire need of change**

Maneka Gandhi

I am really sad that Sanjeev Balyan has been moved out of the Animal Husbandry department which he headed as MOS Agriculture for the past two years. He is a vet himself and an excellent administrator. For the first time in my life I will tell you about a Minister's achievements.

The first thing he did was to change the Veterinary Council and put two outstanding people as the heads - Sharma and Gurdial Singh. The secretary, who was the worst officer in the history of India and had destroyed the entire institution, was made accountable for all the cheating he had done for years, and left in a panic.

What was the situation that Balyan and this government inherited: a totally useless veterinary council that had no control over the quality of veterinary colleges or the behaviour and knowledge of vets - in fact, it was totally unaware of how many vets there are in the country and what they did. The syllabus was outdated and there were no courses for wildlife, ophthalmology, or any specific organ. No vets were taught how to castrate (crushing the testicles between two stones is the normal practice), dehorn or follow any hygienic methods of insemination - leading to sweeping diseases of foot and mouth and bovine leukaemia. No vet ever studied to increase his knowledge after he got his initial degree.

In the last two years, Balyan worked at changing the veterinary syllabus, making standards for veterinary practices, making it compulsory for all vets to attend a refresher course every year or have their licences cancelled, and making an all India register of vets and where they were practicing so that anyone who needed a vet could find out immediately.

Veterinary education and practices in India have undergone sweeping changes. The new veterinary syllabus of 2016 will stop the use of live healthy animals as subject for veterinary teaching and training. It will, instead, ensure the use of ethically-sourced cadavers for anatomical studies and simulation methods for students to acquire better clinical skills, before handling and treating animals under supervised clinical training.

Veterinary students and teachers had often protested about using live animals to teach veterinary science, since all over the world this has been replaced with technology. Numerous studies have proved that the learning generated by non-animal teaching methods are better than those achieved by animal use. Non-animal teaching methods do not cause students psychological trauma, or force them to be a part of something that they consider to be cruel and abusive. The new curriculum also makes students undergo internship programmes at animal welfare organisations so that they learn animal welfare.

The new veterinary practice regulations, once implemented, will ensure that minimum standards of veterinary services are made available to animals through static and mobile veterinary clinics. These facilities will be well-equipped with man power, essential veterinary medicines, instruments, diagnostic facilities, and waste disposal system and will function on Standard Operating Procedures (SOP) and humane veterinary practice protocols. The protocol on humane veterinary practices mandates that animals must be given anaesthesia before invasive and painful procedures, such as castration, and that when euthanasia is required, such as to alleviate suffering from terminal illness, it must be done in a painless manner by a veterinarian. New modern courses have been introduced, especially in the area of wildlife and birds. We finally have a syllabus that is on par with foreign colleges. Now all we need is a type of student who likes animals, rather than aiming to simply get a 'Doctor' in front of his name so that his dowry rates go up.

Continuing veterinary education is not a new concept. Doctors need to learn the latest knowledge whether they are in government or private practice. Each vet will participate in one training course per year. To bring a mechanism for compulsory CVE programme for veterinary practitioners in India, VCI will set up a credit-based system of certification for compulsory knowledge upgradation of practitioners.

For the first time, online registration will be made compulsory with VCI, for veterinarians, to practice anywhere in the country. The animal husbandry sector needs about 2 lakh veterinarians – as of now there are only 63,000. The VCI has increased the number of seats in colleges from 60 to 100 seats and made it easier to start new colleges.

Balyan also banned the commercial import of dogs for breeding. Thousands of diseased and unsuitable dogs were pouring into the country, being bought illegally by breeders. The notification from Director General of Foreign Trade came in consultation with the Agriculture Ministry. India has an unregulated pet trade, growing at a rate of about 20 percent per year, and these imported breeds are responsible for 90 percent of the dog bites and zoonotic diseases. Animal shelters like mine are crowded with pedigrees that have been thrown away by owners a few months after they buy them.

Balyan has gone to the department of water preservation. There are hundreds of issues still pending – from amending the sizes of battery cages for chickens to making minimum standards for all the hideous rotting government veterinary hospitals in the country. From banning exotic skins and meat to reforming slaughterhouses. The most important step in conserving animals and people is to ban oxytocin and remove antibiotics from farm animal feed, and this should be the topmost priority of his successor. Let me keep my fingers crossed that we get someone who understands the importance of animal welfare. (<http://www.firstpost.com/india/veterinary-education-and-practices-in-india-are-in-dire-need-of-change-2900816.html>). ( First Published on : Jul 18, 2016 21:25 IST)

## 7.2: Floods, Forest Ecology and Animal Husbandry

Rama Kumar V

The unprecedented flood this MONSOON has to be discussed in the larger perspective of environmental protection especially the forest ecology. Rather than a focusing on urban drainage, one has to consider forest ecology and management of river beds ie. flood plains which accommodates the extra rain water gushing through river during monsoon. The density and texture of the forest enhances possibility of rain; but would also retain more rain drops in forest soil (in the higher plains). This phenomenon of absorbs rain water lower the flow rate of storm water. Natural forests have a role in flood control in two ways a) forest canopy reduces the impact (down pour) of rain fall on the ground by splitting rain drops, allowing the water, time to percolate into deep soil and reach the ground water reserves (upper and lower aquifers). Part of the rain water gets collected in water holes uphill. These reserves keep recharging the streams and rivers long after monsoon is over. b) By absorbing part of rainwater into soil dense forests reduce the gushing of surface water into ravines, streams and other flow channels. It can also prevent the overflowing of the rivers. Thus maintenance of density and diversity of the forest is important. The phenomenon reduces the chance of flood to a great extent, though the role of flood plains is more important. Flood plains are the banks of the river (river beds) which accommodates excess water arriving from mountains. Flood plains can be used for seasonal cultivation of crops like water melon or sometimes sugar cane. But in most cases it is encroached for construction. The role of mangroves in protecting banks of river is often forgotten during development. Impervious roads, court yards sand mining, quarrying, poaching, mineral hunt and extending borders of dwelling into river bed and sea shore are often considered development wherein alternate methods are available, if only our search for fact (R&D) are not based on figures or self-styled reporting phenomena. ROLE OF ANIMALS IN MAINTENANCE OF FOREST ECOLOGY IS OFTEN MIXED UP IN THE ONEROUS REGULATORY MECHANISM THAT PROHIBITS SYNERGY IN RESEARCH AND DEVELOPMENT. Some of the forest rules are typical. (Dr. Rama Kumar V. is the former Secretary, Veterinary Council of India)



## **8. NATIONAL & INTERNATIONAL VETERINARY NEWS**

### **8.1: NDDB-arm develops world's first vaccine against tapeworms in pigs**

NDDB-arm has developed world's first vaccine against tapeworms in pigs and Indian Immunologicals Limited (IIL), a subsidiary of National Dairy Development Board (NDDB), has obtained the license to manufacture and market the vaccine after conducting extensive field trials in India and many other countries such as Spain, Peru, Nepal, Zambia, Uganda and Tanzania.

Prevalence of porcine Cysticercosis as reported from slaughter house data ranges from 7% to 12% in all pigs. IIL has launched CYSVAX, touted as the world's first vaccine to fight against Tapeworms in pigs.

“Seventy percent of the world's emerging diseases in humans are of animal origin. As Health of Humans, Animals and Ecosystems are interconnected, “CYSVAX will significantly reduce the incidence of Epilepsy in the developing world,” said K Anand Kumar, Managing Director, IIL. “Open defecation and unhygienic pig rearing are the primary breeding grounds for Tapeworms. Cases of Cysticercosis have been found to occur across India, particularly in the North UP and Northeast states,” the release said.

### **8.2: AAPHP Supports One Health**

American Association of Public Health Physicians (AAPHP) is a Proud Supporter of the One Health Initiative. One Health is the collaborative efforts of multiple disciplines working locally, nationally, and globally to attain optimal health for people, animals, plants and our environment. “One Health implementation will help protect and/or save untold millions of lives in our generation and for those to come.”...“*Between animal and human medicine there are no dividing lines--nor should there be.*” Rudolf Virchow, MD (the father of cellular pathology)

<http://www.onehealthinitiative.com//> <http://www.aaphp.org/OneHealth>

### **8.3: University Scientists Bag Most Cited Paper Awards**

Dr. D. B. Patil, Director of Research & Dean PG Studies, Kamdhenu University & Executive Secretary, Indian Society of Veterinary Surgery (ISVS) writes to inform us that Scientists of Kamdhenu University (KU), Gandhinagar, Gujarat, India, have bagged Most Cited Paper Awards for the year 2015 and 2016. An Article entitled “Prevalence of Subclinical Ketosis and Relationships with Post Partum Diseases in European Dairy Cows” by Dr. Vishal Suthar, Assistant Professor, Kamdhenu University, in joint authorship with J. Canelas Raposo, A. Deniz and W. Heuwieser, received Award for Most Cited Papers JAM-2015 and JAM-2016 from Journal of Dairy Science – an official publication of the American Dairy Science Association.

A clinically relevant research by Dr. Pradeep B. Patil (Assistant Professor, Kamdhenu University) and others (2014) rank No. 1 Highest Cited Article since 2014 which is published in an International Journal- Cytotherapy. This research enables us to identify and sort out unwanted cells (stellate) using unique marker from population liver cells with maximum accuracy which can be transplanted in liver failure cases.

#### **8.4: Prof. M.P. Yadav speaks at Seminars**

Prof. (Dr.) M.P. Yadav, Ex-President NAVS, delivered an Oration Award Lecture at “FAO-OIEs Perspective on Global Control and Eradication of Peste des Petits Ruminants (PPR)”. He dwelt in detail on history, symptoms, economic losses due to the disease in small ruminants; epidemiology and distribution in different continents along with the strategy for global eradication by 2030. Prof. Yadav also discussed about the relevance of PPR in providing nutrition and food security in rural India, estimated cost benefit of disease control programme, availability of effective differential diagnostic tests, vaccination schedule/strategy; knowhow and capacity in the country for the development of diagnostics and vaccines, and physical infrastructure for vaccine production and quality control. The lessons learnt during the National Rinderpest (RP) Eradication Programme resulting in eradication of RP (cattle plague) from India in 2006 and from the entire globe in 2011, along with the development of homologous vaccine for PPR indigenously, would be of immense help in conducting post vaccination surveillance, ensuring legal framework and stakeholder involvement. The PPR control program already in hand in India envisaging mass vaccination of goats and sheep with encouraging results, particularly the success story in the States of Andhra Pradesh, Karnataka and Chhattisgarh were also highlighted.

At another Seminar, Prof. Yadav Advocated for A2A2 Cow Milk. While speaking on “Indigenous Dairy Breeds and A<sub>2</sub> milk for Human Health” during the seminar on “Sustainable Dairy Farming through Indigenous Breeds” at Chandigarh on 20 November, 2016 in the Kisan Goshthee, as a part of the 12<sup>th</sup> CII Agro-tech 2016, informed the importance of Dairy farming in Peri-Urban areas of Punjab, Haryana and Western U.P in recent decade. While India ranks No. 1 in the world in milk production, Punjab state is at the top in the country in milk productivity per cow or buffalo, as well as availability of milk per person per day (994 g) as against the national average of 322 g (2014-15) while the world average is around 294 g. Prof. Yadav also underlined the importance of indigenous breeds of cows (*Bos indicus*), which produce A<sub>2</sub> milk, known to be health friendly as compared to the A1 milk produced by exotic European breeds (*Bos taurus*) and suggested that the government should adopt the policy

to use only A<sub>2</sub> A<sub>2</sub> bulls of indigenous breeds (humped cattle), exotic cattle (*Bos Taurus*) and their crossbreeds. The non-descript cattle should be crossbred with elite bulls of indigenous (Deshi) dairy breeds. Efforts should be made for the sale of A<sub>2</sub> cow milk separately (against the practice of sale of mixed cow and buffalo milk), thus people will get milk of their choice and milk producers will get better price for both the milks.

Prof Yadav, in a press briefing as the chairman of a technical session during the International Congress on 'Post Harvest Technologies of Agricultural Produce for Sustainable Food & Nutritional Security', in Lucknow on November 10, 2016 underlined the importance of food processing and preservation by the government and private sector together to end the hidden hunger problem faced by BPL families in the country. He stated that whereas about 50% of the agricultural produce is wasted in developing countries including India, around 42% of children below 5 year of age suffer from malnutrition. He recommended timely processing of milk, eggs, meat, fish, cereal grains, pulses, vegetables, fruits, nuts etc. as it will provide better price to the farmers as well as quality nutrition to the people.

In order to solve the problem of non-availability of adequate quality feed and fodder to the livestock, he felt the need to reduce the large number (40%) of unproductive livestock, while simultaneously attempting to increase their per animal productivity by ensuring adequate and balanced nutrition, sound health coverage, shelter management etc. By using sexed semen of elite bulls, it was possible to produce up to 90% of female cattle and buffaloes calves as too many males are not required for agricultural operations due to increasing mechanization in agriculture.

## **8.5: Activities at LUVAS**

### **8.5.1: Foundation Stone of LUVAS by Haryana Chief Minister**

Sh. Manohar Lal, Hon'ble Chief Minister of Haryana laid the foundation stone of Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS) on November 27, 2016. The university came into existence on December 1, 2010 and Government of Haryana recently allotted 1125 acres of land for construction of new campus of the University at RDS farm of CCSHAU. On this occasion the Chief Minister hoped that with the allotment of land, a beautiful campus with modern facilities will be established to help the livestock owners.

Speaking on this occasion He stressed on the importance of animal husbandry due to decreasing availability of land for agriculture use. In present day scenario income for animal husbandry is contributing significantly in rural farmers' income and also to employment opportunities for unemployed youth. He said that LUVAS has contributed significantly in the field of animal health and production. He mentioned about many significant contributions made by LUVAS that during the first six years of its existence: College of Dairy Science and Technology and Institute of Para Veterinary Sciences have been established and establishment of modern food safety and forensic laboratories

are in process which will help in providing safe food to consumers in the state. He further said that animal wealth is equally important in human life and we must give importance to the animal health and production.



#### **8.5.2: Memorandum of Understanding signed between LUVAS and ASCI**

A memorandum of understanding (MoU) was signed between LUVAS and Agriculture Skill Council of India (ASCI) on December 6, 2016. On this occasion, Maj Gen (Dr) Shri Kant said that contribution of animal husbandry sector is increasing in agriculture and it has reached up to approximately 50%. By implementing skill development programs we can increase the income of farmers as well as achieve women empowerment. ASCI is helping in skill development in the field of animal husbandry all over the country with increase milk production and clean milk production through effective training programs. Dr. S. R. Garg, Director Extension Education, LUVAS presented a brief review of training programs being imparted to farmers. Dr. Satender Singh Arya, CEO, ASCI informed that council works directly under the direction of the Centre Government and more than half the population of India will be as youth by 2022 and the skill development for such high youth population is urgently required.

#### **8.5.3: ICAR Accreditation Peer Review Team visits LUVAS**

A five members Peer Review Team of ICAR visited LUVAS on October 4-5, 2016. Expert members in this team were Dr. A.T. Sherikar, former VC, MAFSU, Nagpur, Dr. N.H. Kelawala, Dean Vanbandu COVSc, Nawsari Gujarat, Dr. Venkateshwarlu, Asstt Director General (ICAR) Dr. K.T. Sampath former Director ICAR (NIANP) and Dr. Veer Singh, Prof & Head, Dept of Vety. Parasitology, Dantiwada Agri. Uni. Gujarat. During the visit members of the team met Maj Gen (Dr) Shri Kant VC, LUVAS and other officers. After the two days visit, the members prepared a detail report and submitted it to ICAR for according accreditation to the university. Subsequently, accreditation was granted to the LUVAS.



#### 8.5.4: LUVAS Celebrates its Foundation Day

Lala Lajpat Rai University of Veterinary and Animal Sciences (LUVAS) celebrated its 7<sup>th</sup> foundation day (December 1, 2016) with a week long programmes. Apart from the foundation stone laying ceremony by the Chief Minister of Haryana, an awareness programme on zoonotic diseases for school children, workshop on bovine tuberculosis, drawing and painting, sports, declamation and debate, and equestrian competitions were organized. Large number of students participated in these programmes and won the prizes. In equestrian event, organized on December 1, 2016 the students put up variety of shows on horses including jumping, tent pegging etc. Maj Gen (Dr) Shri Kant VC, LUVAS was the Chief Guest and gave away the prizes to winners of events including painting, sports, debate etc. and congratulated them all. He also congratulated the scientists and students of LUVAS for number of achievements in the recent past including accreditation of the University with the ICAR.



The Blue Cross Society Hisar organized a seminar on ‘One Health: Bovine Tuberculosis’ at LUVAS on November 25, 2016. Dr Kamal Gupta, Chief Parliamentary Secretary was Chief Guest on this occasion. Delivering a lecture on the topic, Dr Ashok Kale, Professor, Ullas Medical College, Jalgaon, Maharashtra, who is actively associated with awareness campaign on TB in animals, urged upon the scientists to conduct more research on bovine tuberculosis. Dr. Kale said that bovine tuberculosis is the disease of animals that can be transmitted to human beings. Presently, no treatment is given to the tuberculosis affected animals and the diseased animals are either culled and slaughtered or quarantined from the healthy animals. Dr. Kale said research undertaken worldwide has shown that successful treatment of this disease is possible in animals & further research is required on this aspect. He explained about the research work undertaken on this aspect in Brazil, Italy & other countries. Dr. Naresh Jindal , Senior Disease Investigation Officer, Department of Veterinary Public Health and Epidemiology, LUVAS also discussed in detail about the tuberculosis disease in animals.



Maj Gen (Dr) Shri Kant VC, LUVAS said that topic of the seminar is very important and control measures for tuberculosis in animals will ultimately help in control of TB



in human beings and there is need to do more research on this disease. Dr. Naresh Rakha, President, Blue Cross Society Hisar briefed the gathering that welfare of animals is the main objective of the Society.

#### **8.6: WINTER SCHOOL AT ICAR-NIANP, BANGALORE**

A three week ICAR sponsored Winter School on “Novel paradigms and technologies for augmenting livestock fertility under climate change scenario” was organized at ICAR-National Institute of Animal Nutrition and Physiology, Bangalore from November 4-24, 2016. A total of 25 Assistant Professors from various states viz., Kerala (4), Andhra Pradesh (4), Tamil Nadu (6), Assam (2), Karnataka (3), Rajasthan (2), Uttar Pradesh (1), Nagaland (1), Maharashtra (1) and Puducherry (1) attended the training programme. The training programme covered the major upstream areas viz., climate change impact on fertility, climate smart animal agriculture, gene silencing, oxidative stress on embryo development, early embryonic loss etc. Dr. S. Mondal was the course director of the programme and the coordinators included Dr. I. J. Reddy and Dr. N. K. S. Gowda. Dr. S. M. K. Naqvi, Director, ICAR-CSWRI, Avikanagar, who was the Chief Guest of the inaugural session, emphasized the contribution of reproductive technologies in sheep. Dr. Raghavendra Bhatta, Director, ICAR-



NIANP highlighted that climate change is the planet's biggest threat affecting fertility of the livestock industry across the globe. He was of the opinion that the recent innovative biotechnological approaches are of tremendous importance in understanding the complex mechanism of low reproductive efficiency under climate change scenario. Dr. N. V. Patil, Director, ICAR-NRCC, Bikaner, in his valedictory address highlighted the significance of gene based technologies /strategies for enhancement of production in livestock under changing climate.

#### **8.7: IARI to give 2 acres of land to V.C.I.**

The Union Cabinet has approved a proposal for transfer of two acres of land from Indian Agricultural Research Institute (IARI), New Delhi, to Veterinary Council of India (VCI) on lease basis for a period of 99 years at a total lease rent of about Rs. 8,00,000/- per year at the annual rate of Re. 1/- per square meter.

The VCI will expand its activities on up-gradation of skills of veterinary in service professionals by conducting short term courses on latest researches. After establishing these facilities, VCI will start additional activities and pass on the benefits to the rural population of the country.

#### **8.8: Polchem acquires Ceva, enters avian & ruminant markets**

Polchem announced its official acquisition by Ceva Sante Animal, Libourne, France, to enter Indian avian and ruminant markets. Ceva is a major global player in the field of Veterinary Bio-pharmaceuticals with a turnover of

more than Euro 850 million which is equivalent to about INR 6300 Crores. Ceva is a technology driven company having highest number of high-tech poultry vaccines like immune complex and vector vaccines. The fusion will build on Polchem's reputation of providing innovative solutions for the Indian market by giving access to Ceva's global R&D, commercial and industrial platforms, that have helped create one of the fastest growing top 10 veterinary businesses. In addition to the existing product range that Polchem is producing, Ceva innovative vaccines, medicines and reproduction management products will be made available to Indian customers through Polchem marketing channel. The aim is to ensure that the new company uses this base to deliver improved products, services and equipment that will help drive the business to success. Ceva and Polchem have a strong belief that the new company will give a solid boost to its Poultry, Ruminant (AHD) and export markets.

## **8.9: BOOKS**

Prof P.V Sreenivasaiiah writes to inform that the Second Edition of his book "Veterinary Biostatistics" was released during Nov 2016. For further details please contact him at his email ID: [<prof.pvs@gmail.com](mailto:prof.pvs@gmail.com)

## **9. SCIENCE, HEALTH & SOCIety**

### **9.1: 300 million children breathe heavily toxic air: UNICEF**

Nearly one child in seven around the globe breathes outdoor air that is at least six times dirtier than international guidelines, according to the study by the UN Children's Fund, which called air pollution a leading factor in child mortality. These children live with outdoor air so polluted it can cause serious physical damage, including harming their developing brains, the United Nations said in a study released recently. UNICEF published the study a week before the annual UN climate-change talks, with the upcoming round to be hosted by Morocco on November 7-18.

The agency, which promotes the rights and well-being of children, is pushing for world leaders to take urgent action to reduce air pollution in their countries. "Air pollution is a major contributing factor in the deaths of around 600,000 children under five every year, and it threatens the lives and futures of millions more every day," said Anthony Lake, executive director of UNICEF. "Pollutants don't only harm children's developing lungs. They can actually cross the blood-brain barrier and permanently damage their developing brains and, thus, their futures. No society can afford to ignore air pollution," Lake said. UNICEF points to satellite imagery which it says confirms that about two billion children live in areas where outdoor air pollution exceeds minimum air-quality guidelines set by the World Health Organization.

The air is poisoned by vehicle emissions, fossil fuels, dust, burning waste and other airborne pollutants, it said. South Asia has the largest number of children living in such areas at about 620 million, followed by Africa with 520 million and the East Asia and Pacific region with 450 million. The study also looked at indoor air pollution, typically caused by burning coal and wood for cooking and heating.

Together, outdoor and indoor air pollution are directly linked to pneumonia and other respiratory diseases that account for almost one death in 10 in children under the age of five, making air pollution a leading danger to children's health, UNICEF said. The agency noted that children are more susceptible than adults to indoor and outdoor air pollution because their lungs, brains and immune systems are still developing and their respiratory tracts are more permeable. The most vulnerable to illnesses caused by air pollution are children living in poverty, who tend to have poorer health and little access to health services. UNICEF is calling for more robust measures to reduce pollution, increase children's access to healthcare and to monitor and minimize children's exposure to polluted air. (AFP /October 31, 2016),

### **9.2: Haryana raises doctors' retirement age to 65**

In a move to meet the shortage of doctors in the state, the Haryana government has recently decided to raise the retirement age of practicing doctors from 58 to 65 years. Haryana Health Minister Anil Vij told media that the decision was taken at a meeting of the Haryana health department, chaired by Chief Minister Manohar Lal Khattar. Vij said that, however, those doctors who were working on administrative posts, would retire at the age of 58 years. "They will be able to continue to serve up to 65 years only if they opt to practice in any health institution of their choice," he added. The Health Minister said that it has also been decided to invite applications from those retired doctors who would like to rejoin service as medical practitioners. "They would be re-employed. This measure would help in checking the shortage of doctors in the state," Vij added.

### **9.3: 2,000 medicines to become up to 90% cheaper: Nadda**

Union Health Minister JP Nadda has said nearly 2,000 medicines will be made available at rates up to 90 per cent less than the maximum retail price (MRP) under the Amrut Scheme. "Two thousand medicines will be made available at 60 to 90 percent less rates than the MRP," said the Minister on Saturday while addressing the foundation stone laying ceremony here of the proposed Super Specialty Block of Jabalpur Medical College. He said such retail stores would also be opened in Madhya Pradesh. Nadda said the central government would provide all necessary assistance to the Madhya Pradesh government to improve the state's health care facilities. The Minister also said the construction of the Super Specialty block, being built at a cost of Rs 150 crore, would result in provision of quality medical

facilities in the state. He also announced setting up of a State Cancer Institute at a cost of Rs 120 crore, a trauma centre and the establishment of Central Government Health Scheme (CGHS) dispensary here. Madhya Pradesh Chief Minister Shivraj Singh Chouhan, who was also present on the occasion, said that after the construction of the super specialty block, the people of Jabalpur and nearby districts would not have to go outside the state for treatment."To provide better health services to the people is the biggest responsibility of any government. Up to Rs 2 lakh has been entrusted to collectors under the Rajya Bimari Sahayata Scheme," Chouhan said.

#### **9.4: Needle removed from man's body after 22 years**

A man who has been living with a needle that had pierced into his body 22 years ago was relieved of the pain after a surgery at Medical College Hospital in Thiruvananthapuram recently. A stitching needle had pierced the left buttock of Kiran Kumar, 34, a resident of Malayinkeezhu, while he was a Class VI student. The needle, which had been pinned on a calendar, had fallen off accidentally on the bed. The needle pierced his left buttock when Kumar sat on the bed. He did not complain of any pain then and his parents ignored the matter. However, he developed severe pain in the anal area and a swelling surfaced around the buttock two weeks ago. The doctors Medical College Hospital found that the needle was stuck at a depth of 1.5 inches but the exact location of needle could not be spotted. The needle was retrieved after a two-hour surgery.

## 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](mailto:rnkohli@gmail.com)

### 10.1: 45<sup>th</sup> Dairy Industry Conference, 16- 18 February, 2017, Mumbai

The Indian Dairy Association (west zone) is organizing the 45<sup>th</sup> Dairy Industry Conference from 6- 18 February, 2017 at Bombay Convention and Exhibition Center, Mumbai, Maharashtra, on the Theme: "Climate change and Dairying". Online registration is available on [www.idawz.org](http://www.idawz.org). For further details contact: Mr. Rajesh Lele, Secretary General 45<sup>th</sup> DIC: [rajeshleleida@gmail.com](mailto:rajeshleleida@gmail.com); Mob. +91-9820136987

### 10.2: 17<sup>th</sup> Congress of Indian Association for Advancement of Veterinary Research [IAAVR] and XXIV National Symposium on "New Generation Vaccines, Diagnostics For Improvement Of Animal & Poultry Health & Productivity Vis-À-Vis Genomic Interventions for the Societal Benefit, 6-7 April 2017, at Indian Veterinary Research Institute, Izatnagar-243 122 (U.P.)

For details contact: Dr. Rishendra Verma, Organizing Secretary, 1219/6, E-Block, Rajendra Nagar, Izatnagar-243 122 (UP) [E-mail: [rishendra\\_verma@yahoo.com](mailto:rishendra_verma@yahoo.com)]. [www.iaavr.org](http://www.iaavr.org) ; M:09359117376.

### 10.3: 33<sup>rd</sup> World Veterinary Congress 27 to 31 August 2017, Incheon, Republic of Korea. Details: [info@wvc2017korea.com](mailto:info@wvc2017korea.com).

9.4: 19th Organic World Congress 7-8 November 2017, New Delhi and a Pre- Conference on 7-8 November 2017, Ghaziabad as. 3rd Organic Animal Husbandry Conference. For details and to view the conference brochure: <https://drive.google.com/file/d/0B0TX5SvS4IMRNkYwUUlqZW1sRkE/view>

10.5:: National Conference from 04.02.2017 to 06.02.2017 on "Trends In Cancer Research Under One Health Concept" at College of Veterinary Science, Tirupati (On the occasion of World Cancer Day i.e. Feb 4<sup>th</sup> ). For details contact: R.V. Suresh Kumar, Organizing Secretary, National Conference on Cancer: email: [rvsuresh123@rediffmail.com](mailto:rvsuresh123@rediffmail.com); Mobile: 98492 02540



THE NAVS NEWSLETTER is compiled, edited and circulated by the NAVS Editor Prof. Dr. R.N. Kohli, for and on behalf of the NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA). It is for private circulation only. All correspondence regarding the Newsletter may kindly be addressed to the Editor ([rnkohli@gmail.com](mailto:rnkohli@gmail.com)).