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NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

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NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

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Ch. 1: NAVS General INFORMATION

1.1: Governing Council (2017- 2019)

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Maj. Gen. Dr. M. L. Sharma, Delhi: gensharma1950@yahoo.com
Dr. Ravindra Sharma, Hisar: rsharma698@gmail.com
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Dr. S. K. Tiwari, Durg: drtiwarisurgery@gmail.com

MEMBERS (PERMANENT EX-OFFICIO)

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)
Karnataka Animal, Fishery & Veterinary Sciences University (KAFVSU), Nandinagar, Bidar (Karnataka)

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.
18. Eighteenth NAVS Convocation held on 26-27 December 2019 at Gandhinagar, Gujarat, on "Futuristic Technologies in Animal Health and Production", Organized by Kamdhenu University.

1.5: DECEASED NAVS FELLOWS

A REQUEST TO OUR READERS FOR HELP

We have compiled the following tentative updated list of deceased fellows of the Academy which is regularly being revised with the help of our readers who are requested to **kindly help us in this process** 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: rnkohli@gmail.com.

- 1.Ahuja, Dr. Kanhaya Lal, Fellow Elected 1997
- 2.Attrey, Dr (Col.) D. P., Fellow Elected 1997
- 3.Baishya, Dr. Gajen, Fellow Elected 2005-06
- 4.Bajpai, Dr P.K., Fellow Elected 1996
- 5.Balain,Daya Singh, Fellow Elected 1996
- 6.Batta, Dr. Satish K, Fellow Elected 2006-07
- 7.Bhardwaj, Dr Madan Behari Lal, Fellow Elected 1996
- 8.Bhasin, Dr. Nek Ram, Honorary Fellow Elected 2011
- 9.Bhat, Dr. Pushkar Nath, Fellow Elected 1996
- 10.Bujarbarua, Dr J.M., Fellow Elected 1996
- 11.Butuchaiah, G., Fellow Elected 1996
- 12.Chandna, I.S., Fellow Elected 2000-01
- 13.Chaudhary, Dr. Amrit Lal, Fellow Elected 1996
- 14.Chella, Dr. Jagannadham, Fellow Elected 2006-07
- 15.Deshpanda, Dr. S.K., Fellow Elected 1999
- 16.Dua, Dr. Kirti, Fellow Elected 2006-07
- 17.George, Dr. P. O., Fellow Elected 1999
- 18.Ghafoor, Dr. Mohd. Abdul, Fellow Elected 1996
- 19.Gupta, Dr. Shiv Kumar, Fellow Elected 2000-01
- 20.Harbola, Dr P.C., Fellow Elected 1998-99,
- 21.Jhala, Dr. V.M., Fellow Elected 1996
22. Kacker, Maj. Gen. R.N., Fellow Elected 2006-07,
- 23.Kaikini, Dr. A.S., Fellow Elected 1996
- 24.Kanwar, Lt. Gen. N.S., Fellow Elected 2010-11
- 25.Katoch, Dr. R.C., Fellow Elected 2005-06
- 26.Khan, Dr. A.G., Fellow Elected 1996
- 27.Krishna, Gopal, Fellow Elected 2005-6
- 28.Krishnaswamy, Dr. S., Fellow Elected 2007-08
- 29.Kukreti, Dr. J.P., Hon. Fellow Elected 2012
- 30.Kumaran, Dr. Jay S., Fellow Elected 2007-08
- 31.Lal, Dr S.M., Fellow Elected 2000-01
- 32.Manickram, Dr R., Fellow Elected 1999
- 33.Mathur, Dr P.B., Fellow Elected 1996
- 34.Misra, Dr. Sarat Chandra, Fellow Elected 2006-07
- 35.Nair, Dr. P.G., Fellow Elected 1996
- 36.Narainkhedkar, Dr. S.G., Fellow Elected 1999
- 37.Nanda, Dr. B.S, Fellow Elected 2007-08
- 38.Padmanabhan, Dr. V. D., Fellow Elected 1996
- 39.Panda, Dr. Bhagbat, Fellow Elected 1996

- 40.Pandey, Dr J.N., Fellow Elected 2000-01
- 41.Pandey, Dr. Ramayan, Fellow Elected 1996
- 42.Pathak, Dr. Ramesh Chandra, Fellow Elected 1996
- 43.Pathak, Dr. S.C., Fellow Elected 1999
- 44.Prasad, Dr. Gaya, Fellow Elected 1999
- 45.Rajya, Dr. Bhagwan Saran. Fellow Elected 1996
- 46.Ramachandran, Dr S., Fellow Elected 1996
- 47.Rao, Dr B.U., Fellow Elected 1996
- 48.Rao, Dr. Bedati Venkateshwar, Fellow Elected 1996
- 49.Rao, Dr. C. Krishnan, Fellow Elected 1996
- 50.Rao, Dr. Rama Mohan, Fellow Elected 1996
- 51.Rao, Dr. R.L.N., Fellow Elected 1999
- 52.Rathore, Dr. Sohan Singh, Fellow Elected 2011
- 53.Rastogi, Dr Anil K., Fellow Elected 2007-08
- 54.Sahni, Dr K.L., Fellow Elected 1996
- 55.Salam, Dr. Abdus, Fellow Elected 1996
- 56.Sen, Dr. G. P., Fellow Elected 1996
- 57.Sharma, Dr. Deepak, Fellow Elected 2010-11
- 58.Sharma, Dr. Gopal, Fellow Elected 1996
- 59.Sharma, Dr. Rajendra Kumar, Fellow Elected 2017-18
- 60.Singh, Dr A. K., Fellow Elected 2005-06
- 61.*Singh*, Dr. Balwant, Fellow Elected 1996
- 62.Singh, Dr. Bhanu Pratap, Fellow Elected 1996
- 63.Singh, Dr. C.M., Founder President 1996
- 64.Singh, Maj. Gen. Jagvinder, Fellow Elected 2010-11
- 65.Singh, Dr. Nagendra Prasad, Fellow Elected 1996
- 66.Singh, Dr. Prem Pal, Fellow Elected 1997
- 67.Singh, Dr. Raghu Nath, Fellow Elected 1998-99
- 68.Singh, Dr. Ratan, Fellow Elected 1999-2000
- 69.Singh Dr U.B, Fellow Elected 1996
- 70.Soni, Dr. Balbir Krishan, Fellow Elected 1996
- 71.Srivastava, Dr. G.C., Fellow Elected 2007-08
- 72.Talwar, Maj. Gen. Brij Mohan, Fellow Elected 2000-01
- 73.Tyagi, Dr. R.P.S., Fellow Elected 1996
- 74.Uppal, Dr. R.P., Fellow Elected 1998
- 75.Venkatakrisnan, Dr. R., Fellow Elected 2004-05
- 76.Verma, D.N. Fellow Elected 2004-5
- 77.Verma, S.K. Fellow Elected 1997
- 78.Yadav, Dr. J.N.S., Fellow Elected 1999



CH. 2: FROM THE PRESIDENT'S DESK

BW AGENTS FURY: COVID-19 WAY

The pandemic (COVID19) has given a wake-up call to humanity, painfully highlighting its ill preparedness in handling such crises. The global economy is going through a down turn that none of us have ever seen. It is certain that once the pandemic is contained, the global community will have to focus on areas of bio-warfare and community health in an effective manner. Undoubtedly, the health sector will be required to be given the weightage and importance that it deserves. Nations will be forced to increase the allocation of their GDP to the health sector, strengthen the existing disease surveillance network by integrating various professionals from diverse fields and invest in development of robust strategies to handle such pandemics in future.

While teaching protective aspects of Biological Warfare, at Faculty of Nuclear, Biological and Chemical (NBC) Protection, at College of Military Engineering, Pune during year 1989-92, some the student officers usually used to underestimate the power of Biological-warfare (BW) agents as compared to nuclear and chemical warfare agents

Most common line of argument used to emanate normally was that after signing of Biological Weapon Convention (BWC) of 1972 by many countries (Now 183), threat of Bio-warfare was not possible. The potentiality of biological warfare was not easy to teach when the student officers saw more threats from missiles, guns, tanks, mechanised vehicles and fighter aircrafts and so on. Being Microbiologist, I used to emphasise that treaties have been flouted many a times and used to advise them to take this subject seriously since sequel of BW-agents is catastrophic as they can travel faster by contact, aerosol route and contaminated subjects. The biggest devastating characteristics of these bacteria and viruses are that they do not respect national/international boundaries.

Smallpox outbreak in the United Kingdom during 1978 resulted in the death of Janet Parker, a British medical photographer at Birmingham University Medical School, who became the last recorded person to die from smallpox. The incident and its official investigation revealed how dangerous pathogens were researched in UK even after signing BW Convention.

In another accident on 2 April 1979, spores of anthrax were accidentally released from a Soviet military research facility near the city of Sverdlovsk, Russia. The ensuing outbreak of the disease resulted in approximately 100 deaths, although the exact number of victims remains unknown. Livestock in the same area also died of anthrax. Both these accidents happened after

signing of BWC-1972. Where is the respect for the treaty? Since the treaty allows stockpiling of biological agents and toxins for "prophylactic, protective or other peaceful purposes", many nations take advantage of this clause and work on BW agents clandestinely.

Fast forward 2020, here comes the COVID-19 to show its might and engulf almost whole planet (210 countries); all guns fell silent and war from the invisible enemy is on. The virus has infiltrated even the most secure premises of defence establishment, apart from thousands of civil population (Active cases 5,66,840; deaths 16893) in India (as on June 30, 2020). Serving personnel and trainee sailors of the Indian Navy have been tested positive for Covid-19.

Several serving and retired army personnel have tested positive for corona virus. It is probably the worst in the century and therefore, probably the worst in the history of humanity and nobody knows how long it will last. It has been named Covid-19, a shortened form of "corona virus infectious disease of 2019." Whole world is facing biggest catastrophe after Spanish Flu (1918-19) in which more than 50 million people died in various countries and is believed to have killed 18 million Indians. Mahatma Gandhi was also one of the millions who contracted the flu but survived.

Many people across the globe suspect COVID-19 to be BW agent. U.S. President Donald Trump said on 15 April 2020 his government is trying to determine whether the corona virus emanated from a laboratory in Wuhan, China and Secretary of the State Mike Pompeo said Beijing "needs to come clean" on what they know. However, China's Foreign Ministry spokesperson Zhao Lijian has refuted the allegations on 16 April 2020.

Australian Foreign Minister Marisa Payne initially voiced support for an investigation on a Sunday morning television show in late April. Days later, China's ambassador to Australia Chen Jingye responded by suggesting the Chinese people themselves might retaliate with a boycott. "Maybe the ordinary (Chinese) people will say 'Why should we drink Australian wine? Eat Australian beef?'" he told the Australian Financial Review. Less than one month later, the campaign to punish Australia appears to be in full swing. On May 12, China stopped accepting beef from four large Australian abattoirs, citing health issues. Five days later, China slapped tariffs of more than 80% on Australian barley imports as part of an anti-dumping probe.

The work on highly virulent viruses is conducted in high containment facilities i.e., Bio-safe laboratories level 4 (BSL-4). The containment laboratory, in principle, is an air tight building maintained under negative air pressure, which can prevent the escape of organisms to the environment through man, material, air and water.

India has three BSL-4 and 12 BSL-3 facilities. There are currently 13 operational BSL-4 facilities within the United States of America in addition to

ten regional Centres of Excellence for Bio-defence and Emerging Infectious Diseases. The Wuhan Institute of Virology is China's first level-4, Bio Safety lab (BSL-4) currently working on creating most dangerous strains of viruses. Possibility of COVID-19 genetically engineered by this Chinese facility cannot be ruled out. I had the privilege of visiting two world class facilities in Netherlands (Lelystad) and UK (The Pirbright Institute). Emerging and re-emerging infections and possible bioterrorism acts will continue to challenge both the medical community and civilian population worldwide, urging health authorities to respond rapidly and effectively. All the Veterinary Universities in our country must upgrade their microbiology labs to the level of BSL3. I am happy that some of our Veterinary institutes have come forward and created diagnostic facilities for COVID-19.

In our vast country, we need to have additional BSL-4 facilities on regional basis and each state must construct its own independent BSL-3 lab in view of looming danger of zoonotic diseases and life threatening Bio-agents. It is desirable that a chapter on zoonotic diseases be included in the syllabi of school curriculum to educate our future generations on this vital aspect. It is of vital importance to isolate/protect our Armed Forces in the cantonments from the scourge of this deadly virus to protect their morale and fighting efficiency in the interest of national security.

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

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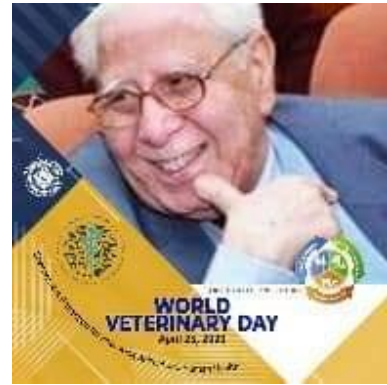
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Ch. 3. EDITOR'S NOTE

Free Fair and Fearless

3.1: Low Key World Veterinary Day 2020 due to Corona pandemic

World Veterinary Day is celebrated on the last Saturday of April month every year. The theme of the world veterinary day 2020 was 'Environmental protection for improving animal and human health'. This day is celebrated to promote animal health and welfare and focuses on the realization that animals and men live interconnected lives, so their existence depends on each other. The World Veterinary Association (WVA) organizes a congress in different parts of the world at the gap of every two years. Indian Veterinary organizations also celebrate this occasion every year. However, the celebrations this year were fewer, if any were held at all (we did not get any report for publication this year), because of the lockdowns in the country due to the Corona Pandemic.



3.2.1: We are still with Covid 19

The previous issue of this Newsletter released in April 2020 contained so much about Covid 19 that one of our regular readers commented in a lighter vein that he had to sanitize himself and his surroundings after reading the newsletter. Sorry to say Sir, we are still with Covid 19. and we still have to go with the time we live in. But we are trying to be moderate and are adding some positivity in the features covered, though the cover still shows a solitary bird indicative of quarantine and social distancing.

With the lockdowns in March and April, the nation remained on tenterhooks. The sacrifices made by the people in general and medical professionals, sanitation workers, policemen and suppliers of essential commodities in particular resulted in providing a little bit of breath of oxygen to the people and the administration. The thinking in part started shifting a bit from Corona alone to some thinking about the dwindling economy resulting from lack of production due several factors including the shortage of labor and other related issues. In May 2020, WHO Director-General in his media briefing on COVID-19 stated that “there have till now been more than four million cases of COVID-19 across the world. Several countries which had put stringent measures in place (sometimes called lockdowns) have started lifting them in a phased way. Many have used the time to ramp up their ability to test, trace, isolate and care for patients, which is the best way to track the virus, slow the spread and take pressure off the health systems. The good news is that there has been a great deal of success in slowing the virus and ultimately saving lives. However, such strong measures have come at a cost and we recognize the serious socio-economic impact of the lockdowns, which have had a detrimental effect on many people’s lives. Therefore a slow, steady lifting of lockdowns is key to both stimulating economies, while also keeping a vigilant eye on the virus. The countries, while considering the criteria for lifting

the restrictions, should also ask the three key questions prior to the lifting of lockdowns: First, is the epidemic under control? Second, is the healthcare system able to cope with a resurgence of cases that may arise after relaxing certain measures? Third, is the public health surveillance system able to detect and manage the cases and their contacts, and identify a resurgence of cases?

“However, even with three positive answers, releasing lockdowns is both complex and difficult. Of course, there already were some signs of the challenges ahead and WHO is working closely with governments to ensure that key public health measures remain in place to deal with the challenge of lifting lock downs. Until there is a vaccine, the comprehensive package of measures is our most effective set of tools to tackle”.

Updating on these issues in June 2020, WHO suggested that new guidelines were required regarding reopening of both schools and work places. When reflecting on the decision to reopen schools, the local government should assess the capacity of the schools to maintain infection, prevention and control measures. WHO also has issued detailed new workplace guidelines, which recommend all places of work carry out a risk assessment for workers potential exposure to COVID-19. This includes the implementation of measures to prevent the spread of the virus.

3.2.2: Head of the Infectious Disease Clinic, University of Maryland, USA, makes some practical and honest suggestions

1. We may have to live with C19 for months or years. Let's not deny it or panic. Let's not make our lives useless. Let's learn to live with this fact.
2. You can't destroy C19 viruses that have penetrated cell walls, drinking gallons of hot water - you'll just go to the bathroom more often.
3. Washing hands and maintaining a two metre physical distance is the best method for your protection.
4. If you don't have a C19 patient at home, there's no need to disinfect the surfaces at your house.
5. Packaged cargo, gas pumps, shopping carts and ATMs do not cause infection.
Wash your hands, live your life as usual.
6. C19 is not a food infection. It is associated with drops of infection like the 'flu. There is no demonstrated risk that C19 is transmitted by ordering food.
7. You can lose your sense of smell with a lot of allergies and viral infections. This is only a non-specific symptom of C19.
8. Once at home, you don't need to change your clothes urgently and go shower! Purity is a virtue, paranoia is not!
9. The C19 virus doesn't hang in the air. This is a respiratory droplet infection that requires close contact.

10. The air is clean, you can walk through the gardens (just keeping your physical protection distance), through parks.

11. It is sufficient to use normal soap against C19, not antibacterial soap. This is a virus, not a bacteria.

12. You don't have to worry about your food orders. But you can heat it all up in the microwave, if you wish.

13. The chances of bringing C19 home with your shoes is like being struck by lightning twice in a day. I've been working against viruses for 20 years - drop infections don't spread like that!

14. You can't be protected from the virus by taking vinegar, sugarcane juice and ginger! These are for immunity not a cure.

15. Wearing a mask for long periods interferes with your breathing and oxygen levels. Wear it only in crowds.

16. Wearing gloves is also a bad idea; the virus can accumulate into the glove and be easily transmitted if you touch your face. Better just to wash your hands regularly.

17. Immunity is greatly weakened by always staying in a sterile environment. Even if you eat immunity boosting foods, please go out of your house regularly to any park/beach.

Immunity is increased by EXPOSURE TO PATHOGENS, not by sitting at home and consuming fried/spicy/sugary food and aerated drinks.

We must learn to live with C19.

3.2.3: We know Covid 19 better now: Dr D P Prakash FRCS

American Eyecare & Lasik Centres; June 24, 2020

So now we know for sure that patients have a better chance at surviving the COVID-19 infection now in June 2020 than in February 2020 for sure. India has not peaked in March or April because of the lockdown. This strategy has postponed the Covid-19 pandemic in INDIA by 3 crucial months that has enabled us to save thousands of lives. Going forward there's nothing to panic about Covid-19 if we remember that a person who gets infected later has a better chance at survival than one who got infected early.

Let's all follow simple precautions like -6 feet distancing from others--Wear proper masks -Work from home whenever possible

-Order delivery and take away of food groceries and vegetables

- Stay at home during lockdown

India has not peaked in March or April because of the lockdown; crucial months that have enabled us to save thousands of lives. Going forward there's nothing to person who gets infected later has a better chance at

With this we can beat the virus . If someone tells you every one is going to get infected, tell them that you are willing to wait to be the last person... who knows by then we might even have a VACCINE.

3.3.1: Imagine you were born in early 1930s.

Only 10-15 years before you were born the 4 year long First World War had just ended with 22 million dead and was soon followed by a Global Pandemic of Spanish Flu killing 50 million people. Only about 4 years before you were born the global economic crisis started with the collapse of New York Stock Exchange, causing inflation, unemployment and famine. But our would-be parents were alive somewhere.

The Nazis came to power around when you were born and by the time you were just 5-6 year old child when the Second World War begins and ends with 60 million dead. In the Holocaust 6 million Jews die.

You were around 15 year old when an estimated 2 million people died in communal riots during the Indian Independence in 1947. Over 14 million people were displaced from their homes.

When we were about 19 years old the Korean War begins and when you were about 30 years old, the Vietnam War begins and ends when you were 42. MANY OTHER EVENTS MERIT A CITATION HERE

A child born around 1995 thinks that his/her grandparents have no idea how difficult his/her life has become due to current pandemic, but is unaware that they have survived several wars and catastrophes. Today we have all the comforts in a new world, amid a new pandemic. But we complain because we need to wear masks. We complain because we must stay confined to our homes where we have food, electricity, running water, wifi, even Netflix! None of that existed back in the day. But humanity survived those circumstances and never lost their joy of living.

A small change in our perspective can generate miracles. We should be thankful that we are alive. We should do everything we need to do to protect and help each other.



Ch.4: LETTERS TO THE EDITOR

Prof Kohli Jee: At this age, you are so committed. We are proud of you and of your contributions to our profession. Hats of to you!! God bless you always.

Prof. Krishan Pathak, Former: V.C. DUVASU, DDG (Animal Sciences) ICAR, and President, NAVS (India)

Thanks a million for your selfless professional efforts in bringing out the April 2020 issue of NAVS Newsletter. Col. Dr. Rajendra Garg, Noida; Cell: 9350398938

Respected Dr Kohli sir: Thank you for sending me the copy of the latest NAVS Newsletter. The efforts put in by you in preparing the newsletter are commendable. Sir the NAVS and the whole veterinary fraternity will remain indebted to you for this yeoman service. God bless you with good health and happiness. Sir the list of brother officers who are not with us today is a special event in the newsletter which was awaited. Sir Hearty congratulations. Brig. (Dr) N.M. Singhvi, Jodhpur; singhvinm@gmail.com

It's Great Sir. In spite of so many odds you are making it Absolute commitment. Dr. Prakash Rao DVR, Vice-President, NAVS (India).

It is "The Kohli" who brought Life in the National Academy of Veterinary Sciences (India). Dr. Raj Khare DVM Philadelphia PA USA; NAVS Foreign Fellow and Founder trustee, Apollo College of Veterinary Medicine, Jaipur (Raj.)

Dear Dr Kohli: As always you have produced an excellent April 2020 issue of NAVS Newsletter: Many thanks; and hearty congratulations. Sir you are doing great service to profession. Prof. D. P. Monga, drdpmonga@yahoo.com

Thanks a lot for timely release of very informative NAVS Newsletter & for the pains taken by the chief editor. Dr. V.R.B. Sastry vrbsastry@gmail.com

Dear Prof. Kohli: I have gone through the April issue of your Newsletter which demonstrates your great competence and wisdom. Your coverage of the 48th Dairy Industry Conference held at Jaipur is really superb and we wish you all the best in future. Great regards: Dr. G. S. Rajorhia, National President, Indian Dairy Association, H. Q.; Central Office: IDA House, Sector IV, R.K. Puram, New Delhi - 110022; Email: idahq@rediffmail.com; Ph. 011-26170781. (Editor responds: I sincerely regret my absence at the conference for health reasons but am very grateful to IDA for having invited me to the event to make a presentation and chair a session).

Dear Dr Kohli: I compliment you on your disciplined effort in bringing out the April issue on time against heavy odds due to Corona-2 virus pandemic lockdown in the country. It is a tremendous effort on your part.

The present pandemic has created an unprecedented situation. In the 1918 Spanish flu pandemic media did not make such an impact as it has now. As zoonotic diseases continue to be challenging, the NAVS President has rightly pointed out the importance of 'one health' to mitigate these. Professor G. Padmanabhan, a highly respected eminent scientist, has made very good suggestions to handle the present crisis. He has indicated how the Corona-2 virus differs in different countries and how it is important and urgent to examine the genetic sequences of different isolates within the country itself. His suggestion to involve the several institutions in the country to work with a common purpose to find the right answers should be taken seriously. The overseeing group would also help in coordination of the work. In view of the high fatalities despite the scientific progress in the affected countries, finding quick remedial measures besides developing vaccines for prevention have not kept pace. Unlike the flu viruses, corona-2 seems to mutate less frequently and it is a matter of time before more stable vaccine(s) become available for human use. Bats being a known reservoir for several known and unknown viruses, the reports that six more corona viruses have been isolated from the bats in Myanmar are disturbing. How do the bat viruses reach humans? Are some other intermediate hosts playing a role? If we can compare different pathogens of the species and find out if there is/are genes common to these that help in infection of man or other hosts, we may work out a strategy to prevent it. We have to be in readiness for future pandemics too. The human/animal body's immune system needs to be understood better. Regards:
Dr. B.S. Keshava Murthy

Respected Professor Kohli Sir: Many thanks for including an item about me and my work in Ethiopia in the April 2020 issue of the NAVS Newsletter. Your comments in the last "We congratulate, Prof. (Major) Bansal for his selfless exemplary services even as an NRI in a developing country of Africa" are heart touching and have motivated me to do more and more for physically challenged people. Brigadier N.M. Singhvi Saheb and Dr Gulhati, Principal Scientist at NRC on Equines and others have already congratulated me, for my work in Ethiopia. We wish you a Happy world Veterinary Day. You are contributing to the profession for the last almost 63 years. To my knowledge, you would be the most elderly Veterinarian in the country having an active life. We vets of the country should be proud of you. With high regards for you and Mrs Kohli
Prof. (Major) Dr. R.S. Bansal. Email: <majorbansal@gmail.com>

Sir: You are really great. Bringing out the April issue of the NAVS Newsletter on time in the present circumstances of COVID-19 in our country is something exceptional. Kudos Sir. After going through the review of the second edition of our book (Ruminant Surgery), I have no words to thank you. If I could complete

this job it was due to your blessings. Please do continue to bless. Regards:
Prof. Dr. Jit Singh; Formerly: Director Resident Instruction and Dean, College
of Veterinary & Animal Sciences, MPUAT, Udaipur: Addnl. Director Research,
Director Clinics and Professor & Head, Veterinary Surgery, HAU, Hisar. Email:
jitp48@gmail.com

Dear Dr Kohli: Through this mail I convey my greatest appreciation for bringing
out an outstanding April, 2020 Issue of NAVS Newsletter giving wide and up to
date coverage on COVID-19/SARS-CoV-2 Pandemic under various columns,
including 'President's Message', 'Editorial Note', contributions by Fellowship,
and national and international news. We wish that your valuable service
continue to the NAVS for shaping its image and professional attainments. Wish
you good health and happiness. Regards:

Prof. (Dr.) M. P. Yadav, FNAVS, FNAAS, FIVS, FIAAVR, FISVIB, FRSCS, FSII;
Editor, Agricultural Research; President, IAVMI, and Former President,
National Academy of Veterinary Sciences NAVS), India.

Dear Sir: Thank you very much for excellent compilation of the April 2020
issue of NAVS Newsletter. The international and national coverage of the news
is very informative. A very good timely update on COVID-19 is highly
appreciable. More coverage is required in the next issue regarding this virus on
diagnostics, treatment, and vaccines. Thanks again and Kind regards:

Prof. Dr. Minakshi Prasad, Professor and Head, Department of Animal
Biotechnology, College of Veterinary and Animal Sciences, Hisar (Haryana)

Respected Dr Kohli: Heartiest congratulations for the timely release of April
2020 issue of NAVS Newsletter despite lockdown due to COVID-19 and other
problems. Your work is highly appreciated. We pray to Almighty to get rid of
this disease and make the world free from this pandemic.

Dr. N. A. Sudhan, Former Director of Research, Sher-e-Kashmir University of
Agricultural Sciences and Technology, R.S. Pura, Jammu-181102 (J & K) India
SKUAST- Jammu. Email: drnasudhan2yahoo.co.uk.

Respected Sir: I respect you a lot and salute to you for excellent working at this
age for the community. You always compile excellent literature in the
Newsletter with full spirit. Kind regards: Dr. Neelesh sharma, PhD (South
Korea), ICAR-International Fellow and NAAS Associate; Founder Editor-in-
Chief, Journal of Animal Research; Division of Veterinary Medicine, Faculty of
Veterinary Science and Animal Husbandry, Sher-e-Kashmir University of
Agricultural Sciences and Technology, R.S. Pura, Jammu-181102 (J & K) India
Cell +91-94-1924-8061; Email: drneeshvet@gmail.com

Dear Dr. Kohli: Thanks for the latest copy of the Newsletter. I liked the
Presidential note on Corona Virus. It was very informative. There is, however, a
problem with his suggestion to prevent such pandemics in future by forming a

committee because there is no Planning Commission now to take the initiative, as suggested by him. Hope you and family are well protected and safe.
Best wishes, Dr. Sartaj Mathur, <purnima_mathur@yahoo.com>

Dear Dr Kohli: Thanks for publishing NAVS Newsletter Which I have seen on line. I must compliment you for doing an excellent job in printing the Newsletter. Actually I am stuck down in USA due to lockdown. Your Newsletter has given me the update in the profession. Stay blessed always and safe The USA is in very bad condition. Thanks and Regards:

Dr. S K Ranjhan (Surendra Kumar Ranjhan) <sk_ranjhan19@yahoo.in>

Dear Dr. R.N. Kohli: Thank you very much for the email and the April issue of NAVS Newsletter. May I introduce my self, I am Prof. Bambang Pontjo Priosoeryanto the Secretary General of Federation of Asian Veterinary Association (FAVA) we are very happy to got the contact with you on behalf of NAVS (India). For your info, Indian Veterinary Association (IVA) is our full member and Indian Association for Advancement of Veterinary Research (IAAVR) is our associate member. Hoping we can collaborate on the issues of our Veterinary Profession in Asian continent in order to develop as one of the very important profession in the global health sector on the spirit of One Health. Hope to be in contact with you in future and also to meet you someday. Prof. Bambang Pontjo Priosoeryanto, DVM., MS., Ph.D., APVet.

Head of the Division of Veterinary Pathology, Department of Veterinary Clinic, Reproduction and Pathology, Faculty of Veterinary Medicine, IPB University, Jalan Agatis, Kampus IPB Darmaga, Bogor-16680, INDONESIA
Tel. & Fax . +62-251-8421807. Email: <bpontjo4@gmail.com>

The compilation of the April 2020 NAVS Newsletter was wonderful. Warm regards sir: Prof. (Dr.) S. N. Joardar, joardar69@gmail.com

Thank you very much for the current NAVS newsletter and my humble regards. Sir, I have always been drawing a great appreciation for the task you have been doing as a founder editor of the NAVS, Newsletter, though I could never express it before. It is pretty motivating, especially to scientists like me to have distinguished seniors like you doing so much for the profession. Three cheers to you respected sir.

The current issue has very aptly addressed the matters related to the disease COVID-19. I really appreciate the inclusion of Prof. Padmanabhan's article. Sir, I have been following Dr. Jerome Kim, the Director General of the International Vaccine Institute in Seoul, South Korea, during this extraordinary time and his focused views at this pandemic. He is really an accomplished scientist, very humble and puts his views with clarity. He is a professor of medicine at the Uniformed Services University of the Health Sciences and is a fellow of the American College of Physicians and the Infectious Diseases Society of America. Formerly, Dr. Kim was Principal Deputy and Chief of the Laboratory of Molecular Virology and Pathogenesis at the U.S.

Military HIV Research Program. Currently, our Dr. Soumya Swaminathan (Former DG, ICMR) of the World Health Organization is working with him to solve one of the greatest public health challenges of the 21st century - the decoding of the human immune system. I am much impressed with his unbiased scientific approach to the problems and feel that is the only way to tackle the pandemic like this.

Sir, a couple of errors have crept in the report about Dr. B.N. Tripathy's joining as the new DDG (Animal Sciences) ICAR. Indian Council of Agricultural Research has perhaps by mistake been mentioned as Indian Council of Veterinary Research. He did his Ph.D. from IVRI but did post doctoral work at Crompton. Dr. G. Taru Sharma, Ph.D, ARS, FFAO, FNAAS, FSAPI, FNASc, DBT Task Force Member (Animal Biotechnology) DBT Technical Expert Committee Member (NER), President Animal Physiologists Association, EC Member ISSRF. Ph: (+91) 581-2301327 (Work); Fax: (+91) 581-2301327
M: 09412603840 (The errors pointed were inadvertent: Editor)

Brief Comments:

Madan Sharma A well demonstrated passion!
Jitendra Bhatia Kohli means knocking at time

Editor's Tribute for Cover Designing Assistance

The following comments regarding the cover of the April 2020 issue of NAVS Newsletter posted on Social media, as well as many others published in earlier issues of the Newsletter are a tribute to **Mr. Narendra Pandey**, a senior executive of the Indian Dairy Association, for his willing honorary assistance to me in designing the cover page for the last several years. I'm grateful to him on behalf of all the readers and my own behalf.

The Cover is very nice and bright. Col. Dr. Rajendra Garg
The cover is quite attractive Sir: Venkareddy Duvvuru;
Beautiful ♥ cover: Jit Singh;
Beautiful cover: Santosh Varma.



CH. 5: NAVS NEWS

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

G-4, A BLOCK, NASC COMPLEX, DPS MARG, NEW DELHI -110 012

5.1: Elections to NAVS Governing Council: Update II

As informed in the April 2020 issue of the Newsletter, Prof (Dr) Suresh S. Honnappagol, Veterinary College, Hebbal, Bengaluru- 560 024 (Karnataka) was appointed as the Returning Officer for conducting the postal elections to the Governing Council of the Academy. The election notification was made by him and nominations were subsequently received. Later, at the request of a couple of contestants to postpone the remaining process of elections (in view of Covid-19 pandemic), the President of the Academy sought views of all members of the existing (2017-19) Governing Council, most of whom agreed to the said postponement. No further communication on the subject has been issued by NAVS or the Returning Officer. The scheduled elections thus stand postponed indefinitely.

As the conduct of elections in the current period of international crisis is unlikely to be held soon, the Academy may, during the intervening period, think over about modifying the procedure of elections from postal to electronic mode. Sooner or later our organizational has to do some soul searching and brainstorming to come up with a fool proof system of election process to streamline the procedure to ensure a fair and transparent procedure. Many in the Academy feel that this will enhance the credibility of not only NAVS but also of the entire profession. An inordinate delay in holding the elections may, therefore, not be good for the general health of the Academy.

NATIONAL ACADEMY OF VETERINARY SCIENCES (INDIA)

CONTACT US

PRESIDENT: Maj. Gen. (Retd.) Shri Kant Sharma, SM, VSM;
Ex-Vice-Chancellor, LUVAS, Hisar (Haryana). Ph. 9416314967;
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SECRETARY GENERAL Prof. Dr. S.K. Gupta, LUVAS, Hisar (Haryana).
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Ph. 011-46065021; 9968920200. Email: rnkohli@gmail.com

CH.6: VET TRACK

6.1: OBITUARY

6.1.1: Prof. P.N. Bhatt is No More: A Tribute

Dr Pushkar Nath Bhat, former Director-cum-Vice Chancellor, ICAR-Indian Veterinary Research Institute passed away on 11th June 2020. The entire ICAR-IVRI family and the Veterinary professionals elsewhere pay their tributes to him and offer their heartfelt deepest condolences to his family and friends. The National Academy of Veterinary Sciences (India) joins with them to honor the memory of this great visionary of Veterinary and Animal Sciences – a true scientific leader who always lead from the front. He was the founding Secretary General of the Academy from 1993 to 2004. Besides NAVS (I), he was also a Fellow of National Academy of Sciences, India, 1987; National Academy of Agricultural Science, 1993 and worked as Chairman, World Buffalo Trust and Centre for Integrated Animal Husbandry and Dairy Development.

Dr Bhat was born on 9 October 1937 in Nunar, Ganderbal in Jammu & Kashmir, India and had been educated at National High School, Srinagar, 1948-52; Sri Pratap College, Srinagar 1955; College of Veterinary Science and Animal Husbandry, Mathura, 1955-59; Post Graduate College of Animal Sciences, Indian Veterinary Research Institute, Izatnagar 1959-61; Institute of Population Genetics, Purdue University, Indiana, USA, 1961-65; BVSc & AH 1959; MVSc (AH) 1961; PhD 1965.

He held numerous coveted positions during his career. These included Project Coordinator (Animal Breeding), 1970-74, 1979-84, and Head, Division of Animal Genetics, 1971-79, IVRI, Izatnagar; Director, Central Institute for Research on Goats (CIRG), Makhdoom (UP), 1981-84; Director/Vice Chancellor, IVRI, Izatnagar, 1984-92; Animal Husbandry Commissioner to Government of India, Department of Animal Husbandry and Dairying, New Delhi 1992-94; Deputy Director General (Animal Sciences), ICAR, New Delhi, 1992-94; Director, Indian Agricultural Statistics Research Institute, New Delhi, 1994; Officer on Special Duty (DIPA), ICAR, New Delhi, 1994-97.

His major Research interest was Animal Genetics and Breeding, animal genetic resources conservation and management, animal production in tropics, animal biotechnology, and research management systems, etc. He will be remembered as the Chief Architect of Modern ICAR-IVRI – contemporary researches in Veterinary & Animal Sciences. Apart From Bringing Modernization and Digitalization to IVRI, Dr Bhat had also been responsible for the general uplifting of the profession. He is also remembered for his bold stand against the unscientific and materialistic Cross Breeding introduced in India in 1960s. e pray to The Almighty for granting eternal peace to the noble departed soul of this legendary veterinary scientist.



6.1.2: Eminent GADVASU scientist Dr Kirti Dua passes away

The unfortunate sudden demise of the young and enthusiastic Dr. Kirti Dua, Professor of Veterinary Medicine, Veterinary College, Guru Angad Dev Veterinary and Animal Sciences University (GADVASU) due to cardiac arrest on 1st June 2020 has shocked the profession. His colleagues, students and friend were unwilling or unable to believe the sad news. He was 59, no age to leave.

Dr. Dua got his B.V.Sc.& A.H. (1983) and M.V.Sc. (1985) degrees from the same college which he was currently serving (then a part of P.A.U.) and later did his PhD. from University of Wales U.K. for which he was awarded the Commonwealth Fellowship by the UK Government. He joined Punjab Agricultural University (PAU) as assistant professor in the department of veterinary medicine on July 23, 1987, and was due to retire on October 31 this year from GADVASU. The Government of India had also sent him to Mauritius as expert under Indian Technical and Economical Cooperation Program for three months.

He was a renowned teacher and scientist of national repute. He received the Young Scientist Award, D.C. Blood Gold Medal in bovine medicine and fellowships from the National Academy of Veterinary Sciences (India) and Indian Society of Veterinary Medicine. He authored three books in veterinary medicine on Animal Welfare, Animal Welfare, Ethics and Jurisprudence, and Infectious Diseases of Farm Animals.

He was a person of multifarious activities and led a team of motivated students under the banner of 'Farmer Welfare Society' for providing free food to poor farmers visiting the university hospital and free medicines for their sick animals. While pleasure travelling Dr. Dua used to make interesting documentaries and post them on You Tube and social media. His written columns have appeared in many newspapers including the Tribune, the Hindustan Times, the Times of India, Daily Post, and Indian Express etc.

Dr Dua is survived by wife Geeta, who is a teacher at a private school, and two sons - Rahul and Siddharth. His colleagues, students and teachers will remember him as an "Ever happy and Always smiling man" who will always be missed by them.

The National Academy of Veterinary Sciences (India) is grieved at the loss of one of their eminent fellows, and a brilliant Veterinarian with so many qualities and professional achievements. May his noble soul Rest in eternal peace. God bless his grieved family with courage to face their loss.



6.1.3: Dr. R. K. Sharma passes away

We are sorry to learn from the President NAVS (I) that Dr. Rajendar Kanwar Sharma, who was awarded the NAVS Fellowship for the year 2017-18 at the recent NAVS Convocation held at OUAT, Bhubneswar, Odisha, on 19-20,

December 2018 was no more. His last known residential address is in Faridabad. Extension Education was his main field of work and he was involved in establishment of Krishi Gyan KENDRAS in Haryana. It was his splended work that the department of veterinary extension education attained the status of a full-fledged discipline. He was twice rewarded with Vice-Chancellors appreciation award and many other awards including two national awards from the ministry of human resource management. The National Academy of Veterinary Sciences (India) is grieved at the loss of one of their newest fellows.

6.1.4: Prof. V. K. Sharma passes away

We are grieved to learn about the sad demise of Dr V.K. Sharma. He was a renowned Microbiologist and specialist in Salmonella research and will be remembered for his notable contributions in India and abroad and also as a student of late Dr C.M. Singh at Mathura.

Dr. V. K. Sharma (born on 1st April 1934) joined the erstwhile Department of Bacteriology and Hygiene, COVS, Hisar on 18.05.1968 and served there for about 26 years on different positions. Prior to that, he also served at the Department of Pathology and Bacteriology at Veterinary College, Mathura (presently DUVASU) with (late) Dr. C. M. Singh.

He was a renowned microbiologist and he had made substantial contributions in the field of Foot-and-Mouth Disease and Salmonella research. He remained Professor and Head, Department of Veterinary Microbiology from Feb. 1975 to January 1980 and later Dean, COVS, CCS HAU, Hisar. During his service, he was also given the charge of Vice-Chancellor (Acting), CCSHAU, Hisar. Besides a good administrator, he was an excellent scientist and teacher and served as Visiting Professor abroad. He was a very compassionate and kind human being.

We join his numerous colleagues at Hisar and elsewhere in praying to the almighty God to grant peace to the noble departed soul and grant courage to the bereaved family to bear this irreparable loss.

6.1.5: Professor Virender Lal Chopra Former NAAS President is no more

Executive Director (S. Bilgrami) of the National Academy of Agricultural Sciences, has informed us with great grief and sorrow on behalf Fellowship fraternity of NAAS about the sad demise of Padma Bhushan Professor Virender Lal Chopra, President of the Academy (NAAS) from January 1, 2001 to December 31, 2004, who left for his heavenly abode on April 18, 2020.

The NAVS (India) joins the NAAS fraternity in praying to almighty to grant peace to the departed soul of Late Professor V.L. Chopra and strength to the bereaved family to bear this great loss.

6.2: Appointments, Transfers, Promotions Felicitations and Awards

6.2.1: Dr. Inderjeet Singh joins as Vice-Chancellor of GADVASU, Ludhiana

Dr Inderjeet Singh joined as the Vice-Chancellor of Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana on 11th June 2020. He replaced Dr AS Nanda the previous Vice-Chancellor of GADVASU. Prior to this Dr. Inderjeet Singh was working as Director of Animal Husbandry Department, Punjab since November 2018. He has been working in the field of Veterinary Sciences & Animal Husbandry Sector from last three decades. He holds a Bachelors and Masters degree in Veterinary Science and at state, national level and international level.

Previously, Dr Singh served as the Director of Central Institute for Research on Buffaloes, Hisar (Haryana), for nearly five years from 2013 till November 2018.

Dr. Singh popularly known as 'Murrah Man' for his research and expertise over breeding and management of Murrah buffalo which is widely Animal Husbandry from Chaudhary Charan Singh Haryana Agricultural University, Hisar, and did his PhD in Animal Reproduction from University of Liverpool, UK. He got many overseas professional recognitions and assignments. He is regularly involved in



various Academic, Research, Policy assignments of different Animal Husbandry Institutes and organizations reared by farmers in Punjab and Haryana.

After joining GADVASU Dr. Singh addressed the officers of the university in a meeting. He acknowledged his predecessors Sh. D.S. Bains, Dr. V.K. Taneja and Dr. A.S Nanda for their contribution to uplift the university to such a stature. Further he stressed upon the collaboration and cooperation with Indian Council of Agricultural Research (ICAR), State Department of Animal Husbandry and other line departments with the University to work together for the development of livestock sector in general and farmers in particular. He further said that though his focus will remain on improving academic quality, good quality of research work as well as strengthening extension activity services for the end users.

He said that in his previous positions he always got full cooperation from Government, ICAR and Farmers. He informed that we will train especially the

Veterinary & other degree students of our Institute as future entrepreneurs which are not tempted towards Government jobs rather job providers.

He expressed that he will support the faculty and employees of the university in all manners to explore their full potential. He also desired constructive and valuable cooperation from line departments. He also gave the emphasis of COVID pandemic and work together to fight this situation and help all the stakeholders involve in the value chain of livestock, poultry and fisheries sector by suggesting them appropriate advisory and services by various means of ICT tools.

In the meeting Dr. A.S. Nanda the outgoing VC congratulated him and extended his full cooperation for future. He said that GADVASU faculty is the most vibrant and always at the forefront to perform for the betterment of the Livestock Sector.

6.2.2: Dr. H M Saxena gets Lifetime Achievement Award and Fellowship for Education Excellence



Dr. Hari Mohan Saxena, a well known Fellow of NAVS (India) who retired as Professor of Immunology from Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana (formerly: DRI cum Dean, PGS at Bihar Animal Sciences University, Patna) has been conferred Fellow of PEARL Foundation for Educational Excellence award by the PEARL Foundation. The award was presented to him at the Science, Medicine, Agriculture, Research & Technology (SMART) Summit 2020 in Bengaluru by Padma Shri Dr Annadurai, Project Director, Chandrayan I & II and Mangalyan Projects, ISRO.

Dr. Saxena was also recently conferred Dr. Sarvepalli Radhakrishnan Lifetime Achievement National Award for excellence in teaching by the IRDP Group of Journals. The award was presented to him at Chennai by Justice S Rajeswaran, Retired Judge, Madras High Court. Dr. Saxena has also been elected a Fellow of the Indian Association of Applied Microbiologists. He was presented the award by Dr. M. Krishnan, Vice-Chancellor, Madurai Kamaraj University at the annual conference of the association held at Kalasalingam Academy of Research & Education, Krishnankoil, Tamilnadu.

Ch.7: VIEW POINT

7.1: The toothless tiger and the COVID 19 pandemic: an open letter to the WHO

Hari Mohan Saxena

The World Health Organization (WHO) has time and again failed to lead the world effectively from the front in global emergencies. Ironically, it has not learnt from its past failures including the Ebola crisis and has once again failed to effectively curb the pandemic – the COVID-19 caused by SARS – CoV2 Corona virus.

It is now very clear that the world cannot afford to rear a white elephant in the form of WHO lest the entire mankind perish from the Earth. It is high time that the WHO shed its image of a toothless tiger and resurrects itself to become the savior of the humanity. It should transform into a real messiah for the entire world by providing timely and effective solutions, quick relief and mitigating crises.

The WHO can do much better with the existing budget by re-allocating funds, reducing half of its staff engaged in non – priority social issues and recruiting real health professionals and scientific experts who can tackle global health crises at ground zero. It should immediately leave the non – serious issues to the NGOs and restrict itself to dealing with the preparedness, epidemiology, dynamic monitoring, recruitment of health professionals and experts and actual delivery of the much needed medicines, vaccines, therapeutics, other materials resources and manpower during the crises. Ensuring survival of humans during catastrophes should be the first priority of WHO during natural calamities or man-made disasters. Resources should be conserved for better use by avoiding their wastage on non – priority academic or social issues which substantially engage it presently.

Instead of playing in the hands of some powerful countries, the WHO must set the world order by strictly enforcing the measures necessary to save the mankind. These include preventive as well as curative measures against regional and global emergencies. It should maintain adequate stocks of medicines and vaccines and other essential material as well as a vast pool of subject matter experts to deal with health emergencies. Poor nations and developing countries may not be able to provide medicines, vaccines and expert professionals to their citizens during unexpected emergencies. The WHO should be capable of distributing medicines and equipment from its stock and provide health professionals and relevant staff from its own pool of experts at a very short notice.

The WHO should be strong enough to direct the governments to take adequate steps in their respective countries to follow global public health guidelines on practices and public behavior, among other measures. The current COVID-19

pandemic has aggravated due to the non seriousness and carelessness of governments in some countries. Some nations might have been obsessed with their own economic or political ambitions while others are helpless due to religious, political and social structures and did not care for full implementation of the required measures. Most of them have failed to restrain their citizens to obey the restrictions to check the spread of the disease. The numbers of infected people escalated due to the failure to prevent mass gatherings and implement social distancing among their citizens. Had the WHO decided to prevail upon the governments on this issue, the spread of infection in devastating proportions could have been averted.

Essential supplies like ventilators, masks, sanitizers, disinfectants, personal protective equipment and medicines should have been provided by the WHO to the needy countries freely from its stock. This would have prevented greedy nations from taking unfair advantage of the crisis to boost their economies or further their geopolitical ambitions. The WHO should have fuelled innovation by targeted investment and assembling a critical mass of the best of the brains of the world to churn out new diagnostics, vaccines and therapeutics for the mankind. Other entities like the multinational companies or powerful nations may not be altruistic and may be propelled by their own vested interests to make fortunes out of the miseries of the suffering human beings.

The WHO should tap the vast resources, manpower, logistic support and influence of its sister agencies of the UN family like the UNO and its Security Council, UNICEF, UNESCO, UNIDO, FAO as well as the World Bank and OIE to become more powerful at the times of need and enforce its agenda on the arrogant and the rogue nations. The UN Secretary General can assume the leadership role for coordinating the efforts of the above named agencies for effective mitigation of crises such as the COVID-19, the worst humanitarian crisis since the Second World War.

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7.2: Think Horizontally to Grow Equitably: Vertical Growths may Deny Justice

Rama Kumar V.

This note may look lengthy or a fanatic dream of a weird professional. But LET US BEGIN A DREAM TO DEVELOP OUR PROFESSION FOR THE GOOD OF OUR SOCIETY. As per great Abdul Kalam sir “Dream is not the one you see in sleep; the dream is the one which does not let you sleep” . Great people like Archimedes, Roentgen, Eberlein, Dunlop, Edison, Wright brothers, Einthovan, Socrates, Hippocrates, Claudius Galen, Luis pasteur and Semmelwies were all dreamers.

Economic growth (vertical) is a race to excel others through individual profit or gain. It relegates human development to a low priority. Indians generally consider poverty or suffering the fate or prefer to blame it on government. The fruits of development of a nation must reach every section of the community. For this we have to draw (horizontal) information across board and draw a common ground to plan growth of all sections of the society. The constitution of India [read article 14, 19, 21 and especially article 39] has thoughtfully provided for Sustainable development. A landmark judgement of Supreme Court of India (Justice Kudip Singh & ors in 1996) prescribed specific directions to the benefit of one and all be it the rich or poor. Article 39 of the Constitution prescribes that the operation of the economic system must not result in the concentration of wealth i.e. development shall not be at the cost any section of society. Similarly, all components of earth system viz. Man, Animal and Nature (M.A.N.), must grow equally without competing with or at the cost each others. This is the basic principle of “one health” proposed in Manhattan principles (2006) which now is being increasingly accepted globally. To plan the “Science of synergy”, we have to extend our plan vistas beyond the current sector classifications of planning ie. (1) the production sector [ie. agriculture, fisheries, animal Husbandry, mining etc.] (2) Manufacturing sector [ie manufacturing machinery, consumer durables, food processing & preserving etc.] and (3) the service sector (like medical, legal, repair & maintenance, IT, communication, trans-shipment etc.) Manufacturing and service sectors depend exclusively on the raw materials from Production. Production requires primary inputs like land, water and energy, all of which are available from nature. In India the poor and the underprivileged mainly seek livelihood from production sector. Whereas in the west 3% of the population is involved in food production, 60 to 76% of India’s population seek livelihood through farm sector. As per Mr. Agyemang Amo, DG Poverty Guide, “As the poor earn their livelihood essentially from the environmental resources (from forest, pastures, fisheries and land), environmental degradation threatens them most. The understanding of the environment for poverty reduction provides an economic case for pro-poor investment in environmental assets”. Sustainability and biodiversity holds the key to India’s social security ie. food security, energy security and emotional security. The thought process of horizontal development therefore starts with the primary inputs like land, water and energy. Funds may be an integral part of planning; In the Indian context one must avoid an obsession for economic development focussing mainly on individual profiteering through trade and investment.

LAND is vital for animal’s health, husbandry and performance. It provides space to house animals, generate feed & fodder be it green fodder, dry crop residues, cut and carry grass from common property, scarcity fodder from trees. Tree stems retain carbon in large quantities and therefore control spread of Green House gases (GHG). Grazing land especially the slopes of our hills provides opportunity for stress free grazing for cattle. A remarkable trial and observation by Dr Suresh Gangavne who worked for “Nasik Goshala” showed

that raised mangers help stress-free ergonomy for prehensile action and thus enhance production in cattle. Slopes provides similar ergonomic support to grazing animals.

WATER is vital for animals to sustain life as 87% of body is water. It is essential for the life and production or performance of all fauna (domestic, feral, wild or experimental).

ENERGY from feed keeps life going. Its availability is vital to maintain optimal health and performance.

Ideal veterinary service must emerge through a holistic understanding of the role of animal resources, their social environment and economic potential for equitable development. Unfortunately there is no systematic study on the minimum land, water and energy necessary for various domestic, feral or wild animals to perform optimally; much less about the details of their quality and quantity requirement in various regions and localities of India, in normalcy and during seasonal, geo-physical and climatic changes. But more relevant is the study (R&D) of socio-economics and behaviour-nomics of animal rearing system that varies from region to region & locality to locality. Much of India's ills can be traced to behaviour disorders of society, especially its failure to realize the needs of animals in normal life or in crises.

ECONOMICS is the science dealing with assets, the laws relating to value of material, market, its trends, sustainability etc. Behavioral economics, the human face of economics is in its infancy. Socio-nomics investigates the real engine driving the markets - social mood. [www.socionomics.org]. The aberrant branches of economics are collectively termed as Xeno-economics

Classification apart, economics of the Animal Husbandry in India had been dealt as both livestock economics of India and the economic aspect of animal husbandry practices of India. Planners or peers discuss the first aspect to project the sector. The economic aspects of animal rearing is perhaps not been fully studied in India, much less by Indian economists. A few references obtained are the work of non-Indian scientists who either studied the existing animal husbandry pattern of India or studied the data collected from India on their behalf. Unfortunately many of these studies dealt with the fundamental aspects of economics as a science and not its application.

Our recent exposure to COVID19 shows that Socionomics has special relevance to the study of animal husbandry as it can be a helpful tool to understand the social (community) and climatic "events and trends" which earlier appeared illogical from a general economist's view point. Search for horizontal (inclusive) information holds the key to sustainable development in veterinary science be it animal health, production, technology, community development or clinical vety. service. An epidemiologist who chases surveillance or 'information for action' would do well to consider this aspect (call it the "epidemiology of need or macro-epidemiology) seriously. We may strive for equitable health on earth ie optimal health for Man, Animal & Nature, locally, regionally and globally or "one health"

As the next step I invite professionals to discuss the social, economic, political and environmental profile of each state (from Kerala to Kashmir or Ladakh and discuss them against the Health, production, technology, community development and clinical services. We would soon be able to deduce solutions for diseases, defects, deficiencies, crisis, hazards and disasters (DDDC) involving animals. Soon we would be able to organize preparedness (and be ready) to combat problems flood to COVID 19 and propose relevant solutions for the ills of climate like flood and land slide during rains and feed crisis, sun burn, heat stroke and starvation death in animals during summer in the years to come.(Dr. Rama Kumar V. was the founder Secretary of V.C.I.)

7.3: DOMINO EFFECT OF COVID-19

Iqbal Singh Bajwa:

The "International Heritage Breeds Week" (May17 to May 23)" came to a head when my immediate neighbour and a well informed poultry farmer Gavinder, made cognizant that he was staring at an uncertain future. He shared the sound of ringing alarm bells as COVID-19 crippled the poultry biz.

The poultry industry is badly hit by corona virus scare is no more a news. Initial reaction was a dip in the sales of chicken and eggs by 70 to 80 percent amid rumours that the disease can be transmitted through consumption of meat and eggs. The wholesale prices of eggs, broilers and spent hens suddenly fell to an all time low of Rs.2.90/- , 25/- and 12/- respectively. Hatchery owners were equally distressed as a chick that cost them Rs.20 to 25 was not finding a customer even for Rs.5/-. Punjab farmers who were major suppliers of poultry products to J&K suffered a double whammy. First it was a long drawn curfew in Kashmir due to abolition of article 370 and then corona pandemic. The pandemic has inflicted damages worth millions to farmers, hatcheries and poultry processors across the country. Chicken joints, restaurants, hotels and other eateries are not operating during the lockdown which are the major consumers of poultry products. Moreover, the present weather isn't helping matters anybetter as eggs keep getting spoiled because of hot weather. Some farmers have been rendered without business owing to heavy losses.

Reviving the industry will require tremendous effort. Experts are already raising fear that if urgent measures are not taken to safeguard farmers interests, the country may experience severe shortages of poultry products. The impact on the poultry sector has a knock on effect on the rest of the agricultural chain. If you cannot sell day-old chicks, how can you afford to buy poultry feeds for parent stocks? If you cannot sell poultry feed, how will you be able to buy soybeans and corn? Even finding the labour working at farms may not be easy as majority of them have left for their homes. The Corona induced leave of frontline workers will occasion the shortage of skilled Labour, delay in plantation and demand for higher wages by unskilled labour. The word poultry

did not find a mention in the 20 lakh crore economic package was a final nail in the coffin, Gavinder concluded.

I wish poultry should have gotten some incentive even if not exactly equivalent to fish or bee keeping in the economic package.

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Ch. 8: NATIONAL & INTERNATIONAL VETERINARY NEWS

8.1: Indian Society for Veterinary Surgery Contributes to PM CARES Fund

The Indian Society for Veterinary Surgery decided to extend financial support of Rs. 4,00,000.00 Four lakh only) to PM CARES Fund to fight COVID-19. In India, this sudden outbreak has already created enormous medical and financial burden on the country. This contribution is a small effort to support those affected by the virus, doctors, poor people, daily wage workers, and every other human in distress right now. Let us fight Corona virus together and make a difference by not only maintaining the social distance but also showing that we care. As responsible citizens of the country, we must follow all the instructions issued by government from time to time.

CH. 9: DAIRY NEWS

9.1: Indian Dairy Association organizes a Webinar on World Milk Day

The Indian Dairy Association (HQ) organized a webinar on June 1, 2020 to celebrate the us World Milk Day. Dr. G.S. Rajorhia, President-IDA appreciated the efforts of Shri Kuldeep Sharma, Founder, Suruchi Consultants and Member-IDA in arranging the webinar on behalf of IDA within a short span of time. Briefing on the occasion, Dr. Rajorhia said that the celebration of this very special day was started in 2001 at the initiative of FAO with the aim of making the people aware of the nutritive value of milk and also to give proper direction for dairy sector to grow in the world. It may be recalled that the “National Milk Day” of India is celebrated in November every year on the birth anniversary of Late Dr. V Kurien who is also called as the milkman of India and Father of White Revolution. His major contribution was to present an ideal platform of milk marketing before the whole world. Gujarat Cooperative Milk Marketing Federation is the living example of the same wherein farmers are getting good price for milk.

Dr. Rajorhia further emphasized on the need to educate the people about the nutritive value of milk due to its many constituents (such as calcium,

whey protein, fat, minerals, lactose, vitamins, Conjugated linoleic acid (CLA), etc) which are necessary for the development of human life.

Studies have suggested that CLA found in milk prevents growth of cancer cells in human body. In today's context, it is necessary to keep our immunity high so as to fight the COVID-19 like pandemic. Use of milk can increase our immune power to fight such type of diseases.

Dr. Rajorhia said that the main aim of the webinar was to see how best we can help one crore migrant workers who have left cities and gone to their native villages due to COVID-19 scare. How dairy sector can provide livelihood to the migrant workers some of whom are skilled too. This was possible, if we convert this pandemic to an opportunity, as stated by our Hon'ble Prime Minister. We must engage the migrants in our dairy development programme. As we know, our population is growing day by day and so the demand for milk and milk product will keep growing. Currently, milk production of India is around 190 million tons and we expect it to be doubled by 2050. He was of the view that 60 per cent of the villages of India have remained untouched as far as dairy development is concerned. State governments can be requested to use these migrants in the villages by utilizing the Central Government sponsored dairy development schemes. Some can be accommodated in livestock development programmes also. We can also motivate some small entrepreneurs by providing skills to them so that they can start their dairy business especially in khoa-making, paneer, sweets, etc. As per available data, 7-8% of milk production is utilized towards Khoa-making and 4-5% milk for paneer. The same quantity of milk is used in preparing chhana and chhana sweets. Small capital investment is required for starting these kinds of projects. If we can come out with good plans, we can give some suggestions to the Govt of India towards providing possible employment to the migrant workers in dairy sector of India.

Dr. Omveer Singh, Managing Director, NDDB Dairy Services congratulated all the participants of the webinar and suggested that the organized dairy sector should engage/attract some of the young, inspirational and energetic migrants by providing them skilled scientific training in dairy sector so that with small capital they can start their dairy business. Government should help these migrants by providing credit facility at lowest possible rate as most of them are suffering from lack of fund. The biggest opportunity for the organized dairy sector is the 60% of milk potential of the villages which are not yet covered with organized sector, e.g. either through Cooperative, Producer Company, FPO, Self Help Group or Private Sector. Here is the big opportunity of dairy development services for the organized sector. Dr. Singh was of the view that due to the pandemic, there is a perception in the general masses to avoid non-vegetarian items in their food. In today's scenario, milk is also seen as immunity booster. Therefore, we hope that our per capita milk consumption will grow further. Moreover, in view the current state of pandemic in the developed countries, there is a scope for increasing our exports of dairy products to these countries.

Shri Kuldeep Sharma, Founder, Suruchi Consultants, while speaking about the economic status of the migrant workers, said that 29% population of the big cities in India consists of are daily wage earners. Most of the migrant workers are also daily wagers. Shri Sharma also gave a roadmap for their rehabilitation through skill development activities, district-wise schemes based on milk potential. He also talked about opportunity for urban masses and inclusive approach through which migrants workers can be accommodated in dairy and its allied sector. Shri Radhey Shyam Dixit, Managing Director, Ananda Dairy, informed that the Ananda Foundation was instituted with an aim to provide livelihood to rural masses and is already working towards rural welfare with an aim to upgrade standard of living of milk producer farmers' through FPO; health and sanitization and women empowerment. Shri Dixit dedicated his new product "Probiotic Chocolate Dahi", (launched recently) to the World Milk Day occasion, citing the Prime Minister's vision of vocal for local.

Around 100 members participated in this webinar. Dr. Rajorhia expressed his gratitude to the speakers Dr. Omveer Singh, Managing Director, NDDDB Dairy Services; Shri Radhe Shyam Dixit, Managing Director, Ananda Dairy and Shri Kuldeep Sharma, Founder, Suruchi Consultants for providing valuable information to the IDA members and participants of World Milk Day celebration.

9.2: Webinar on Impact of COVID-19 on Global Dairy Industry

In an interesting webinar, FSNM News Channel organized a very interesting and informative talk show with Ms. Caroline Emond, Director General, International Dairy Federation (IDF); Dr. G.S. Rajorhia, President-IDA; Mr. Devendra Shah-Chairman, Parag Milk Foods; Dr. J.V. Parekh, Editor, Dairy Times; Mr. Samba Murthy, CEO Heritage Foods; Mr. Parag Patwardhan, VP-Sales & Mktg, Nichrome India Ltd. and Mr. Kulwant Singh from Supreme Agro. Speakers discussed about the various problems of the Global Dairy Industry including the sanitation and hygienic conditions to be maintained from farm level till distribution supply chain. Maximum care of cleanliness should be taken at plant and machinery level and maintain social distancing and follow proper guidelines laid down by FSSAI and government.

9.3: Prof. A.K. Srivastava, Member, ASRB, delivers Kurien Memorial Lecture

ICAR-NDRI Karnal Organized Dr. Kurien Memorial Lecture on World Milk Day 2020 on "The saga of Artificial Insemination in Indian Dairying" which was delivered by Prof. (Dr.) A K Srivastava, Member, ASRB, New Delhi through Zoom Webinar. The online lecture was chaired by Dr. B N Tripathi, DDG, Animal Sciences, ICAR. At the outset Dr. Tripathi elaborated the celebrated role of Dr. Kurien on socioeconomic transformation of rural India through dairying and Dr. M S Chauhan, Director, ICAR-NDRI introduced Dr. Srivastava to the audience. In his lecture Dr. Srivastava mentioned that the first AI was performed in India at NDRI (then IDRI) Bangalore in August 1939 at Mysore Palace Dairy Farm. He also mentioned that there has been a tremendous improvement of milk

production in India due to AI and there is a direct correlation between them. At present there is a huge gap between demand and supply of frozen semen doses with an additional requirement of 66.42 million doses. Conception rate through AI in India is only 35%, whereas in developed countries it is 60-72%. He also mentioned that fertility ensured and predicted semen will lead to high conception rates as compared to traditional semen straws and use of flow cytometer in semen analysis was found successful in differentiating high from low fertile sperm. He also stressed that there is a need to expand AI coverage which is only 30% at present, availability of bull calves for timely replacement, regulating the upcoming private semen stations and use of sexed semen, establishment of state of the art 'semen analysis centres', continuous training to the inseminators and reduction in sperm concentration and dose of AI. Dr. M S Chauhan, Director ICAR-NDRI expressed his gratitude to Dr. Srivastava for delivering the lecture.

9.4: FSSAI launching new online platform for licensing of food businesses

Food regulator FSSAI has said that it has launched a new online platform for granting licenses and registration to food business operators (FBOs) as well as regulatory compliances.

Since 2011, the FSSAI's online licensing platform FLRS (Food Licensing and Registration System) has issued 70 lakh licenses/ registrations till date. Over 35 lakhs licensees/registrants are actively transacting on it. "FSSAI is now launching its cloud based, upgraded new food safety compliance online platform called Food Safety Compliance System (FoSCoS)," the regulator said in a statement. The new URL foscoss.fssai.gov.in will replace the existing foodlicensing.fssai.gov.in, it added.

The regulator said the new platform FoSCoS is conceptualised to provide one point stop for all engagement of an FBO with the department for any regulatory compliance transaction.

The platform has been integrated with its mobile app and will be linked with other IT platforms. "A single regulatory platform will enable pan India integrated response system to any food fraud and ensure an advanced risk based, data driven regulatory approach. For the start, FoSCoS will be offering licensing, registration, inspection and annual return modules," FSSAI said.

10. 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.

10.1: Caring For Everyone, But Not About Anyone.

(Eulogy for my husband Prof. Dr. Kirti Dua, GADVASU)

Dr Geeta Dua

My husband, Dr Kirti Dua, was a spontaneous person, full of joy and enthusiasm for life. A friend at his prayer meeting recently said, “He was never in a hurry, always pausing to observe and appreciate the journey, rather than racing to reach the destination.” Simple sights would fascinate him such as women collecting grain from the field or a flock of pigeons taking flight off the freshly harvested wheat fields. He would capture the joyful moments in his camera that was always attached to his belt.

If the moments lingered, he would write about them in articles to be published or as a Facebook post. Nothing escaped his eye for detail. During the Covid-19 lockdown, whenever he would be outside, he would capture the smallest acts of humanity whether it was sweepers collecting leftovers from houses for stray dogs or university students pooling resources to feed stranded migrant labourers and their families. An act of charity gave him tremendous joy.

Travelling was another passion. It could be a road trip or a trekking adventure, he wouldn't let any opportunity go. Since his heart bypass surgery in 2004, he ardently pursued living in full throttle. He authored books, wrote articles and letters to editors, expressing his thoughts fearlessly.

Together, we have done scuba diving, parasailing, paragliding and he was always game for anything fun. We did road trips to Ladakh twice and also to Lahaul-Spiti in our Santro car. Travelers en route would gasp as we negotiated dangerous nullahs and navigated the heights in the compact car, while they looked on sceptically from their 4x4 vehicles.

It's not that he did not face any turmoil or setback but he would calmly sit back and reroute to steer through difficult patches.

Dr Dua had a sharp memory. His friends would call him an encyclopedia for he would always have an anecdote ready for every situation or the wit to regale everyone with laughter. He was ever smiling and made the most of every day that God gifted him. He was fun to be with.

As our son posted a tribute, “He cared for everyone but did not care about anyone.”

He avoided arguments; either he would disappear or change the topic as soon as an issue became too serious. He believed in keeping things simple and

light. For him, keeping relations was far more important than winning a point. He treated everyone with respect and took genuine interest in their well-being. He was happy within and accepted others around as such. He believed that the right things have a way of happening if one waits patiently. Even in marital arguments, he would withdraw, never insulting but simply allowing the argument to die its death.

No wonder, he is missed by friends and family.

A free spirit, he finally broke free on June 1, 2020. May he enjoy the adventures in the world beyond. Goodbye my dear, till we meet again.

(Source: Shared by the author on Social Media. Published in Hindustan Times, June 29, 2020)

10.2: New WHO and UNHCR Agreement Signed

According to a news release from the World Health Organization (WHO) and the UN Refugee Agency (UNHCR) have signed a new agreement to strengthen and advance public health services for the millions of forcibly displaced people around the world.

The new agreement updates and expands an existing 1997 agreement between the two organizations. A key aim this year will be to support ongoing efforts to protect some 70 million forcibly displaced people from COVID-19. Around 26 million of these are refugees, 80 per cent of whom are sheltered in low and middle-income countries with weak health systems. Another 40 million internally displaced people also require assistance.

For more than 20 years, UNHCR and WHO have been working together worldwide to safeguard the health of some of the world's most vulnerable populations. They have collaborated to provide health services to refugees in every region - from the onset of an emergency and through protracted situations, consistently advocating for the inclusion of refugees and stateless people in the national programmes.



11. 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

NOTE: Event information may be out of date due to the coronavirus (COVID-19). Confirm details with event organizers.

11.1: 15th International Veterinary Congress, Date & Venue: **August 17-18, 2020 | Paris, France**; Theme: “*A Step towards Animal Security Leads Healthy Living*”

11.2: IDF World Dairy Summit 2020, **Cape Town, South Africa, September 28-October 1, 2020**, Contact for details: <https://idfws2020.com>

11.3: International Conference on Advance Clinical Veterinary & Veterinary care, **Hanoi, Vietnam: October 12-13, 2020**; **Details: Internet**

11.4: Dairy Industry Expo 2020, along with conference, **Pune, India; 16-18 October 2020**. For details visit: <http://dairyindustryexpo.com>

11.5: 7th Annual Summit on Animal Health and Veterinary Science, *Paris, France*, **November 05-06, 2020**; **Details: Internet**



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