


# NRCE Newsletter

## January to December 2014

	<p>Dr R.K. Singh, Director, ICAR-NRCE, Hisar has taken over as Director, ICAR-IVRI, Izatnagar on February 4, 2014. Dr R. K. Singh served as Director NRCE from December 24, 2008 to February 3, 2014. Dr Singh with his research, teaching and administrative expertise will bring glories to ICAR-IVRI. The ICAR-NRCE family hearty congratulates Dr R. K. Singh on assuming new responsibility of Director ICAR-IVRI.</p>		<p>Dr B.N. Tripathi joined as Director, ICAR-NRCE, Hisar on August 20, 2014. Before joining at ICAR-NRCE he assumed various positions which included Director National Institute of Animal Health, Baghpat and Head, Animal Health Division CSWRI, Avikanagar previously. Dr. Tripathi has vast teaching, research and management experience in the field of Veterinary Pathology. The NRCE family extends hearty welcome to our new Director.</p>
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### Animal Health Trust team visits ICAR-NRCE under OIE Twinning Laboratory Project on Equine Influenza

An OIE twinning program on equine influenza was initiated with basic aim of capacity building at ICAR-NRCE, quality assurance of diagnostics and compliance with OIE standards for diagnosis of equine influenza and to finally submit a proposal to the OIE to designate ICAR-NRCE, India laboratory as 'OIE reference laboratory for equine influenza.' Scientists from OIE referral laboratory, Animal Health Trust, United Kingdom- Dr Debra Elton, Head, Division of Virology and Dr Elizabeth Medcalf, Head, Diagnostics, visited NRCE, Hisar from 14-21 November, 2014. During the visit, NRCE demonstrated the surveillance system for monitoring equine influenza besides processing of samples and different tests (HI, SRH, qRT-PCR & virus isolation) being employed at NRCE, Hisar for testing. Also a field visit was conducted and an equine health camp was organized at Hanumangarh on November 18, 2014 to demonstrate various aspects of sample collection, surveillance and liaison being developed by NRCE with farmers for better dissemination of information from both ends. Different aspects of biosecurity and biosafety issues were also discussed for the control of the disease during outbreaks. A lecture was delivered by Dr Debra Elton on biosecurity and biosafety for equine influenza along with monitoring system in the UK which was attended by scientists from ICAR-NRCE.



Animal Health Trust team interacting with equine owners at Hanumangarh

### Capacity building of ICAR-NRCE Scientists under OIE Twinning Laboratory Project on Glanders

World Organisation for Animal Health (OIE), Paris, France funded laboratory twinning project on Glanders is ongoing between Institute of Bacterial Infections and Zoonoses, FLI, Jena, Germany and ICAR-National Research Centre on Equines, Hisar, India. Under this twinning laboratory project, capacity building for the glanders laboratory of ICAR-NRCE, India by the parent laboratory was envisaged. The long-term objective of ICAR-NRCE, the only institute involved exclusively in equine disease research in India, was to become OIE Reference Laboratory for SAARC region besides imparting training to the competent researchers/scientists from these countries so that a systematic surveillance for the disease condition could be carried out. For capacity building, two scientists - Dr Praveen Malik and Dr Harisankar Singha from the candidate lab, ICAR-NRCE, Hisar visited FLI, Germany for two weeks from June 15-28, 2014. During the visit, scientists were provided hands on training on genotyping techniques of *Burkholderia mallei* like variable number of tandem repeats (VNTR), multilocus sequence typing (MLST) etc. VNTR and MLST typing were performed by targeting 23 and 7 different loci, respectively. The DNA sequence was analysed using bioinformatics tools for number of tandem repeat analysis and assigning allele number to MLST sequences. Besides genotyping, the diagnostic potential of ELISA using recombinant TssA protein was also evaluated using panel of glanders positive and negative equine serum from FLI repository. The result was encouraging and agreeable with CFT as it was seen with other two recombinant proteins (Hcp1 and TssB) during first visit. During the last phase of visit, a training module for 10 days workshop was developed and discussion about the third year program of the project was carried out.

Accordingly, work was initiated towards genotyping of *B. mallei* isolates in India using published primers. MLST typing of three *B. mallei* isolates revealed that they belong to sequence type 734 along with reference *B. mallei* strains like ATCC23344, Bogor, Zagreb and Mukteswar. VNTR typing and whole genome sequence analysis may through light in deciphering geno-epidemiological differences among *B. mallei* strains.



Scientists from candidate lab ICAR-NRCE in parent lab at FLI Germany

### **National workshop on Equine Health and Welfare**

National Research Centre on Equines, Hisar and Brooke India jointly organized National workshop on Equine Health and Welfare during March 21-22, 2014 at National Agriculture Science Center, New Delhi. The workshop was inaugurated by Dr S. Ayyappan, Hon'ble Secretary DARE and DG ICAR. On this occasion Dr. Suresh S Honnappagol, Commissioner, Animal Husbandry Department Govt. of India, Gen. N.S. Kanwar, DG RVS, AHQ, New Delhi, Maj. Gen. (Retd.) Dr. R.M. Kharb AVSM Chairman, AWBI, Dr. Gaya Prasad, ADG (AH), ICAR, Dr. R.S. Gandhi ADG (AGB), ICAR were present as Guest of Honor. Rear Admiral (Retd.) V. K. Malhotra AVSM, VSM, Director Brooke India, Lt. welcomed the participants to the National Workshop on Equine Health & Welfare. Dr A.K. Gupta, Director, NRCE, Hisar gave the brief outline of scenario of equine husbandry in India and NRCE.

During the two day workshop interactive Technical Sessions on Equine Health & Welfare: Status and Challenges, Equine Health and Welfare in Equine Fairs and Pilgrimage Sites, Current Status of Equine Diseases in India- A way Forward, Equine Production and Management in working equines were organized along with a poster session on Display of new technologies in equine health and production. The workshop was attended by senior officials from Department of Animal Husbandry, Dairying & Fisheries, Govt. of India, State Animal Husbandry Departments, Veterinary officers, NRCE Scientists and officials from Brooke India.



Inaugural speech by Dr S. Ayyappan, Secretary DARE and DG ICAR



Technical Sessions on Equine Health & Welfare

## **Annual Review Meet of Veterinary Type Culture Collection Network Project**

The fifth Annual meet of Network Units of Veterinary Type Culture Collection Network Project was held at the College of Veterinary Sciences, Assam Agricultural University, Khanapara, Guwahati on October 13, 2014. Prof Gaya Prasad, ADG (AH), ICAR chaired the meeting. Dr B. N. Tripathi, Director, ICAR-NRCE & VTCC, Hisar in his inaugural address highlighted the significance of microbial repositions and their potential use in future. He briefed about status of the cultures submitted and accessioned in the network project and discussed on various issues regarding the project. Different modalities related to culture submission and accessioning were thoroughly discussed among all nodal officers. Subsequently, the progress made during the year was presented by nodal officers from network units. Prof. Gaya Prasad in his address emphasized upon conservation of microbial diversity, its preservation and its distribution to stakeholders.



**VTCC Annual Review meet at Guwahati**

## **Research Advisory Committee (RAC) Meeting**

The XVII Research Advisory Committee meeting of the Centre was held on March 10, 2014 under the Chairmanship of Dr S.K. Dwivedi, Ex-Director, NRCE, Hisar. The other RAC members in the meeting included Dr Arun Varma Ex-ADG (AN&P), Dr Gaya Prasad, ADH (AH), Dr Arvind Kumar, Dr A.K. Gupta, Acting Director (NRCE), Sh G.P.S. Posana and Dr Yash Pal, I/c PME & Member Secretary. The Chairman RAC appreciated the work done by the scientists in the mandated research area of the Centre and emphasized for generation of demand-driven technologies for the benefit of stakeholders as well as need based research. The Chairman and other members emphasized that NRCE should focus on development of semen bank of elite stallions by collecting semen from superior quality stallions. The committee further stressed upon the need of ISO certification of NRCE Laboratories for international accreditation.



**RAC meeting in progress**

## **Institute Research Committee Meeting**

The Annual Institute Research Committee (IRC) meeting for the year 2013-14 was held under the chairmanship of Director, ICAR-NRCE, Hisar on April 17, 2014 at NRCE, Hisar. The IRC assessed the achievements of the research projects executed during last year in the area of equine health, production, extension, Veterinary Type Culture Collection and externally funded projects. The Chairman, IRC raised concern over the development of equine specific formulation of feed using locally available feed and fodders. Chairman also emphasized on development of more field oriented technologies for utilization and conservation of equines and for combating the emerging and re-emerging diseases.



**IRC meeting in progress**

## **Half yearly meeting of Institute Research Committee (IRC)**

The half yearly meeting of Institute Research Committee (IRC) was conducted under the Chairmanship of Director, NRCE, Hisar on Nov. 10-11, 2014 for the evaluation of research projects in the area of equine health, production, VTCC and extension. The In-charge PME welcomed the chairman and scientists, and the meeting started with the opening remarks by Dr B.N. Tripathi, Director & Chairman, IRC. All the In-charges of the units of NRCE, VTCC & EPC presented overall progress of research works executed and various issues of the respective units, followed by project presentations. The Chairman, emphasized to focus on initiation of the transfer of technologies for vaccine and diagnostics production; formulation of new externally funded research projects involving basic research in areas like donkey immunology; harnessing novel technologies like reverse genetics, RNAi and biosensors for improving equine health; exploration of the newer areas like dope testing; research on combined vaccines, in the areas of athletogenomics. Chairman also emphasized on strengthening the research in the area of embryo transfer at EPC Bikaner and to explore the possibilities to perform in donkeys.



**IRC meeting in progress**

### **36<sup>th</sup> Institute Management Committee Meeting (IMC)**

The 36<sup>th</sup> Institute Management Committee Meeting (IMC) was held on April 16, 2014 at NRCE, Hisar under the chairmanship of Dr A. K. Gupta, Acting Director, NRCE, Hisar. The meeting was attended by Dr. Gurdial Singh, Dean College of Veterinary Science, LUVAS, Hisar; Dr. M. S. Chauhan, Pr. Scientist, Animal Biotechnology Centre, NDRI, Karnal; Dr P.S. Yadav, Pr. Scientist, CIRB, Hisar; Dr Praveen Malik, Pr. Scientist, VTCC, Hisar; Shri Gajendra Pal Singh, AIMHS, Jodhpur; Shri Ved Prakash, Finance & Accounts Officer, CSSRI, Karnal and Shri Chetan Issar, Administrative Officer, NRCE, as Member Secretary. The meeting started with the welcome address by the Chairman and discussions were held about the issues of previous meetings and current issues of the Centre. The IMC confirmed and adopted the proceedings of the 35<sup>th</sup> Meeting of the Centre. Various agenda items *viz.* construction of stables at EPC, Bikaner; construction of Animal House phase II for VTCC, NRCE; External furnishing of VTCC laboratory; ISO-17025 certification of the laboratories as per OIE recommendation etc., were thoroughly discussed among the members and consent was given. The IMC emphasized on the strengthening of the Centre with modern equipments and pro-activeness in resolving the construction works of the Centre.

### **Organisation of Interactive meet of equine owners on ICAR Foundation Day**

An interactive meet of equine owners and scientists on July 16, 2014 on occasion of ICAR foundation day at ICAR-NRCE, Hisar. The meet was attended by equine owners from Hisar, Rohtak, Bhiwani, Jind, Kurukshetra, Fatehabad and Ambala districts attended the meet. Equine owners and scientists interacted on various aspects of health and management of equines and issues affecting equine welfare during the interactive meet. Questions raised related by equine owners on health and management which were addressed by the scientists. The information about artificial insemination pregnancy diagnosis, diagnostic and consultancy and advisory services provided by NRCE was given to the equine owners. Information on preventive measures in disease control, deworming, hoof care and feeding was given to equine owners by the scientists of the Centre. On this occasion farmers also visited the Info-equine museum at the Centre.



**Interactive meet of equine owners on ICAR foundation day**

## INSTITUTIONAL NEWS

### Drawing competition on “Horse as a companion animal” at ICAR-NRCE

On the eve of ICAR-NRCE foundation day, drawing competition for school children was organized at NRCE Hisar on the theme “Horse as a companion animal” on November 25, 2014. Students from 11 different schools in Hisar participated in the event. Ms Amisha Periwal, Class XI student from O.P. Jindal Modern School, Hisar received First prize. Lavany Mittal, Class X student from The Aryan School, Hisar and Rakshit Class XII student from Thakur Dass Bhargava Sr. Sec. Model School received second and third prize, respectively. Shri Sachdev Man, Shri Bhim Singh Beriwal and Shri Brijendra Singh acted as members of judging committee for the drawing competition. Director NRCE distributed certificates and drawing kit to all the participating students. The students also visited the Info-equine museum at NRCE. Chief Guest, Gen (Dr) Sri Kant Sharma, Vice Chancellor, LUVAS, Hisar presented prize to the winners of drawing competition on the ICAR-NRCE Foundation day celebrated on November 26, 2015.



1st prize - Amisha Periwal



2nd prize- Lavany Mittal



3rd prize- Rakshit



Participants of drawing competition with NRCE staff



Students during drawing competition



Young mind working on canvas



Distribution of certificates to participants

### ICAR-NRCE Foundation Day Celebration

30<sup>th</sup> Foundation Day of ICAR-National Research Centre on Equines was celebrated on November 26, 2014. Different activities like drawing competition for school children, Foundation day lecture, progressive equine owners meet and plantation of tree in the NRCE campus were organized to commemorate Foundation Day celebration. Maj Gen (Dr) Sri Kant Sharma, SM VSM, Vice Chancellor, LUVAS, Hisar graced the occasion as the Chief Guest during Foundation Day celebration program at NRCE. Prof. (Dr) Gaya Prasad, ADG (AH), ICAR; Dr Dev Raj, Commandant, Equine Breeding Stud, Hisar and Dr Inderjeet Singh, Director, ICAR-CIRB, Hisar were present as Guests of Honour during the Foundation Day celebration. Dr B.N. Tripathi, Director, ICAR-NRCE welcomed the Chief Guest, Guest of Honour, equine owners, dignitaries and briefed about the research and extension activities of NRCE and the achievements made during the past 30 years. Chief Guest Maj Gen (Dr) Sri Kant Sharma highlighted the importance of equines in remote and hilly terrain and emphasized upon their utility in different activities like racing, equestrian events, transportation, pleasure riding, endurance racing.

On this occasion, Chief Guest also released technical bulletin entitled “*Exotic Equine Diseases*”. Progressive equine owners were also felicitated by the Chief Guest on this occasion. Prof. (Dr) Gaya Prasad, ADG (AH), ICAR delivered Foundation day lecture on “Scientific Revolution” on the occasion. The plantation was done at NRCE campus by Chief Guest, Guest of Honour and other dignitaries to commemorate ICAR-NRCE Foundation Day.



Distribution of prize to winner of drawing competition by Chief Guest



Release of technical bulletin on “Exotic Equine Diseases”





Plantation at NRCE campus by the Chief Guest



Foundation Day lecture by Prof. Gaya Prasad

### **Progressive equine owners meet organized on occasion of ICAR-NRCE Foundation Day**

Progressive equine owners meet was organized on November 26, 2014 on the occasion of ICAR-NRCE foundation day in which nine progressive equine owners from Haryana, Rajasthan and Uttar Pradesh participated. During the progressive equine owners meet, scientists and equine owners interacted on different aspects of equine husbandry and management practices. The problems faced by equine owners in equine husbandry were discussed and scientists provided valuable information on feeding, hoof care, artificial insemination in equines, and preventive measures for different diseases to the equine owners. The progressive equine owners were also felicitated by the Chief Guest Maj. Gen. (Dr) Sri Kant Sharma, Vice Chancellor, LUVAS, Hisar.



Felicitations of progressive equine owners

## हिन्दी सप्ताह का आयोजन

हिन्दी सप्ताह के अवसर पर केन्द्र में 22-27 सितंबर 2014 तक हिन्दी भाषा से संबंधित विभिन्न प्रतियोगिताओं का आयोजन किया गया जिसमें केन्द्र के अधिकारियों, कर्मचारियों व केन्द्र सरकार के अन्य संस्थाओं के कर्मचारियों ने बढ़-चढ़ कर हिस्सा लिया। हिन्दी सप्ताह के दौरान निबंध लेखन, काव्य पाठ, हिन्दी शब्दानुवाद, हिन्दी टिप्पणी एवं पारूप लेखन, हिन्दी प्रश्नोत्तरी तथा सुलेख प्रतियोगिता का आयोजन किया गया। दिनांक 22 सितंबर, 2014 को "इन्टरनेट के फायदे एवं नुकसान" विषय पर निबंध प्रतियोगिता आयोजित की गई। इस प्रतियोगिता में श्रीमती पार्वती शर्मा, अनुसंधान सहयोगी को प्रथम पुरस्कार प्राप्त हुआ। अनीता सपरा ने द्वितीय एवं गगनदीप सिंह ने तृतीय पुरस्कार प्राप्त किया। 23 सितंबर, 2014 को आयोजित हिन्दी शब्दानुवाद प्रतियोगिता में श्रीमती सविता सिंह को प्रथम पुरस्कार प्राप्त हुआ तथा कुमारी गीत व अनीता सपरा को क्रमशः द्वितीय एवं तृतीय पुरस्कार प्राप्त हुआ। 24 सितंबर, 2014 को आयोजित हिन्दी सुलेख प्रतियोगिता में डॉ० तरुणा आनन्द को प्रथम पुरस्कार प्राप्त हुआ तथा पार्वती शर्मा एवं श्री दीपक कुमार को क्रमशः द्वितीय एवं तृतीय पुरस्कार प्राप्त हुआ। 27 सितंबर, 2014 को आयोजित काव्य पाठ प्रतियोगिता में श्री नरेश शर्मा को प्रथम पुरस्कार प्राप्त हुआ तथा श्रीमती शम्मी त्यागी व श्री गुरजीत सिंह को क्रमशः द्वितीय एवं तृतीय पुरस्कार प्राप्त हुआ। 27 सितंबर 2014 को हिन्दी सप्ताह समापन एवं पुरस्कार वितरण समारोह आयोजित किया गया। इस कार्यक्रम में श्री हिम्मत सिंह, निदेशक, उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान, हिसार मुख्य अतिथि के रूप में एवं श्री एम. पी. कुलक्षेष्ठ, निदेशक, एन.आई.सी., हिसार विशेष अतिथि के रूप में उपस्थित थे। मुख्य अतिथि ने अपने सम्बोधन में दैनिक कामकाज में हिन्दी के अधिकाधिक प्रयोग पर जोर दिया। मुख्य अतिथि द्वारा विभिन्न प्रतियोगिताओं में विजयी प्रतिभागियों को पुरस्कार वितरण किया गया।



काव्य पाठ प्रतियोगिता का आयोजन



हिन्दी सप्ताह पुरस्कार वितरण समारोह

## Vigilance Awareness Week at the Centre

Vigilance Awareness Week was observed at the Centre from October 27, 2014 to November 1, 2014. As part of Vigilance Awareness Week celebration Director, NRCE administered pledge to the scientists and staff of ICAR-NRCE on October 27, 2014 for honesty and transparency in public life. He also stressed on coordinated efforts for eliminating the menace of corruption from the society.

## **NRCE organizes Equine Health Camp on World Veterinary Day**

An Equine Health Camp and interactive meet of equine owners was organized by National Research Centre on Equines on April 26, 2014 on the occasion of World Veterinary Day at Rajli and Gurana village in Hisar. During the health camp equines were examined for various ailments by a multidisciplinary team of scientists and technical officer from NRCE in Rajli and Gurana villages. Deworming tablets and mineral mixture were provided to equine owners free of cost and treatment was given to sick and wounded equines. Pregnancy diagnosis was also done at farmer's door during the camp.

Equine owners interacted with NRCE scientists on various aspects of equine husbandry and management practices. During the interaction meeting, the equine owners were also made aware about the equine welfare, importance of rest during work periods, proper and timely shoeing and grooming of animals and adoption of improved equine husbandry and management practices.



**Pregnancy diagnosis at farmers door at Gurana**

## **Swachh Bharat Abhiyan at ICAR-NRCE**

At NRCE Swachh Bharat Abhiyan was initiated and following activities were undertaken:

1. Cleaning Offices, corridors and premises: A plan was made to clean the old record room and make it clean and tidy. The premises of the institute were also cleaned and flowering plants were placed at different places of the institute, so as to create a healthy atmosphere.
2. Bio-waste management: NRCE has initiated some activities for bio-waste management by preparation of compost manure from equine dung. More of these activities will be taken up during this campaign.
3. Dissemination of this campaign to the nearby villages: Now have also integrated this mission with few more villages and stakeholders were sensitized for sanitation activity in-and-around animal stables including their feed, fodder and drinking water etc.



### Equine health camps and kisan goshtis organized

Sr. No.	Place	Date	Activities
1.	Allahabad and Varanasi, Uttar Pradesh	February 23-25, 2014	During equine health camps the animals were examined for various ailments by the experts from NRCE. Basic treatment was provided to diseased animals and Free medicines, deworming tablets and mineral mixture was provided for to equine owners free of cost at the camp. Pregnancy diagnosis was done during the camps. During <i>Kisan Goshtis</i> Equine owners interacted with experts from NRCE on various issues related to health, production and management of equine and the constraints faced by them in equine husbandry.
2.	Barabaki and Lucknow, Uttar Pradesh	March 1-2, 2014	
3.	Jassusar gate, Bikaner, Rajasthan	March 31, 2014	
4.	Ralji, Haryana	April 27, 2014	
5.	Degana, Nagore, Rajasthan	July 23, 2014	
6.	Julana, Haryana	September 19, 2014	
7.	Lwara and Sonprayag, Uttarakhand	September 25, 2014	
8.	Jankichatti, Uttarkashi, Uttarakhand	September 28, 2014	
9.	Ridmalsar, Bikaner, Rajasthan	September 28, 2014	
10.	Maham, Haryana	November 07, 2014	
11.	Hanumangarh, Rajasthan	November 18, 2014	

## NRCE Participation in Exhibitions and Fairs

Sr. No.	Place	Date	Activities
1.	National Livestock Championship Muktasar, Punjab	January 8-12, 2014	Exhibits and extension material on various aspects of equine husbandry and management were displayed for the benefit of equine owners. NRCE video film "Aswa Gatha" was played for during the exhibitions. Exhibition stall also displayed different technologies developed at NRCE. Equine owners meet and interacted with scientists on various aspects of equine husbandry.
2.	Kisan Sammelan, Jhajjar	January 19, 2014	
3.	CIRB Buffalo Mela, Hisar, Haryana	February 01, 2014	
4.	IVRI Kisan Mela, Izatnagar UP	February 28, 2014	
5.	Kisan Goshthi on ICAR foundation day at NRCE, Hisar	July 23, 2014	
6.	Exhibition at Loonkaransar, Bikaner	October 3, 2014	
7.	ICAR Institute-SAU-Development and Stakeholder Interface at ICAR-NDRI, Karnal	October 18, 2014	

## Visit of dignitaries

- Dr Umesh K. Mishra, VC, Chhattisgarh Kamdhenu Vishwavidyalaya, Durg, Chhattisgarh visited NRCE on January 28, 2014. He visited ATIC, BSL III laboratory, animal shed complex, VTCC and different labs at the centre.



Dr Umesh K. Mishra at ATIC, NRCE

- Lt. Gen. N.S. Kanwar, DG RVS, AHQ, New Delhi visited NRCE on January 28, 2014. During his visit he visited animal shed complex, ATIC, BSL III laboratory, VTCC and different labs at the centre.



**Lt. Gen. N.S. Kanwar, DG RVS at Info-equine Museum, NRCE**

- Prof. Satya Parida, Head of Vaccine Department, Pirbright Laboratory, Institute of Animal Health, UK, visited EPC, Bikaner on January 1, 2014.
- Dr A.K. Srivastava, Director, NDRI, Karnal visited EPC Bikaner on January 1, 2014. Director NRCE briefed Director NDRI about the research and infrastructure facilities and ongoing research activities at EPC, Bikaner.
- Mr. S. Vellaiangiri, Senior Deputy Accountant General visited EPC, Bikaner on January 10, 2014.
- Hon'ble Shri. K. P. S. Gill visited EPC Bikaner on January 17, 2014 along with Mrs. C. D. Hellner and Mrs. Tricin Everest from USA. During visit he interacted with scientists at EPC, Bikaner and visited different laboratories and animal shed complex.
- Dr M. L. Madan, Former DDG (AS) & Vice-Chancellor Dr Panjab Rao Deshmukh, Krishi Vidyapeeth, Akola and U.P. Pt. Deen Dayal Upadhyaya Pashu Chikitsa Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura visited the Centre along with Dr B. S. Prakash ADG (AN&P), ICAR, New Delhi on November 28, 2014. They visited various facilities viz. Info-equine Museum, BSL-III laboratory, Animal Shed Complex, VTCC and different laboratories at the Centre.



**Dr M. L. Madan interacting with scientists at NRCE**

- Dr Keith Hamilton from OIE headquarters visited ICAR-NRCE from August 25, 2014. He delivered a lecture on “Activities of OIE”, had discussion with scientists and visited laboratories of the Centre. During visit he visited laboratories and had interaction with scientists.



**Dr Keith Hamilton interacting with scientists**

- Maj Gen (Dr) Sri Kant Sharma, SM VSM, Vice Chancellor, LUVAS, Hisar visited ICAR-NRCE as the Chief Guest during Foundation Day celebration programme at ICAR-NRCE on November 26, 2014.
- Dr Indu Gupta, Additional Director, LASTECH, DRDO, Ministry of Defence, New Delhi, visited ICAR-NRCE on December 27, 2014.

## NRCE

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