



SYMPOSIUM INFORMATION

A. General Information

Location:

The symposium will be held at Hotel Jungle Crown, Sauraha, Chitwan, Nepal. There are frequent flights (taking 20 minutes) from Kathmandu to Chitwan (Bharatpur). By road, it takes about 4 hours' drive from Kathmandu to Bharatpur. The distance between Bharatpur airport and symposium venue Sauraha is about 15 km.

Sauraha is a small village in the Chitwan Valley that has emerged from a Tharu village of mud and daub huts and houses, with a half dozen mud and daub hotels, into a small quiet town full of western style hotels and resorts, restaurants, internet cafes, and gift shops. The village is the eastern gateway to the nearby and large Chitwan National Park, famous for Jungle/Wildlife safari. Sauraha is also considered as Buffalo Hub in Chitwan. The distance between Sauraha and Agriculture and Forestry University, Rampur is 31 km.

Schedule of Events:

The on-site registration, inaugural session and reception dinner will be on Wednesday, November 15, plenary sessions in different thematic areas will be held on November 16 and 17 followed by closing session on November 17 evening. Post symposium tour is scheduled for November 18 Morning.

Registration Hours

On-site registration desk will be located in the Hotel Jungle Crown, Sauraha, Chitwan that opens from 10.00 am to 6.00 pm on November 15.

Important Contacts:

Overall: Bhuminand Devkota (9855054487)

Domestic flights and accommodation: Rebanta Bhattarai (9855081572), Hotel Jungle Crown (9855065023)

Technical matters: Manoj Kumar Sah (9845053569), Nirajan Bhattarai (9855060704), Gokarna Gautam (9855064941), Himal Luitel (9855051156)

Local transportation: Anil Kumar Tiwari (9855057430), Dawa Tshiring Tamang (9855059484)

Media Room

A media room will be available throughout the meeting to provide a space for media representatives to work. Meeting press releases will be available there. Krishi TV channel will live broadcast the major part of the event.

Hospitality Lounge

The hospitality lounge will be located in the Hotel Jungle Crown. Lounge will offer attendees an area to relax, network, and catch up with friends.

Side-line Meeting

Side-line meetings will be organized in the meeting room of the Bodega Wine Bar of Hotel Jungle Crown between the Agriculture and Forestry University Authorities, Michigan State University Authorities, other University Authorities, Head of the Professional Bodies, Visiting Scientists, Guests and Contributors.

Camera, Video Camera, and Cell Phone Policy

Use of cameras, video cameras, tablets, or smartphones (For calls or audio/video recording) is prohibited during oral and poster presentations to minimize disruption and unauthorized dissemination of data. The symposium sessions will be recorded and uploaded in the symposium website by the Organizing Committee.



B. Program Schedule

Day 1: November 15, 2017, Wednesday

Registration, Inaugural Session and Reception Dinner

10.00-18.00	Registration
15.00-18.00	Inaugural Session
Master of Ceremony : Bhuminand Devkota, Organizing Secretary	
15.00 – 15.20	Session chairing by Prof Dr Sharada Thapaliya, Organizing Chair Formal reception to the Chief Guest Hon'ble Vice Chancellor of the University Prof Dr IP Dhakal and Special Guests National anthem Welcome by the Chair Inauguration by the Chief Guest
15.20-16.00	Special papers IBS2017: Objectives and highlights by Bhuminand Devkota, organizing secretary and coordinator, Post Graduate Studies Center, Agriculture and Forestry University IBS2017: Partnerships and way forward by Nanda P Joshi, advisor of the ibs2017 and director of International Programs, Department of Animal Science, Michigan State University Strategy to enhance the production and productivity of buffaloes for the growth of livestock gross domestic production (LGDP) of Nepal by Bimal K Nirmal, advisor of the IBS2017 and Director General of Directorate of Livestock Services, MoLD Value chain analysis and dairy development in Nepal by Satish Joshi, Professor of Michigan State University Livestock ownership, animal source foods consumption, and maternal and child nutrition outcomes in Nepal: findings from the 2014 PoSHAN community survey by Robin Shrestha, Feed the Future Innovation Lab for Nutrition, Tufts University
16.00-17.30	Address to the symposium Dr Inderjeet Singh, Organizing Secretary of 9 th ABC and President of Asian Buffalo Association Prof Dr Antonio Borghese, General Secretary of International Buffalo Federation V Padmakumar, Regional Coordinator (Asia), Feed the Future Innovation Lab for Livestock Systems Prof Dr Naba Raj Devkota, Advisor of the IBS2017 and Director, DOREX of the University Dr Purna Bahadur Chhetri, Senior Agriculture Specialist, World Bank Nepal Prof Dr Nasim Ahmad, Pro-Vice Chancellor of UVAS, Lahore, Pakistan Dr Baidhya Nath Mahato, Advisor of the IBS2017 and Executive Director, Nepal Agricultural Research Council Prakash Mathema, Secretary, Ministry of Livestock Development, Nepal Dr Yubak Dhoj GC, Secretary, Ministry of Forest, Nepal Dr Suroj Pokharel, Secretary, Ministry of Agricultural Development, Nepal Honoring the Guests and Speakers by the Chief Guest
17.30-18.00	Address by the Chief Guest Honoring the Chief Guest by the Chair Vote of thanks and closing by the Advisor of the IBS2017 and Registrar of the University Prof Dr Mana Raj Kolachhapati
18.00-20.00	Reception Dinner

Day 2: November 16, 2017, Thursday

Plenary Session I: Policies and Socio-economics of Buffalo Production

Chair: John Medendorp Moderator: Lok N Paudel

KN1	8.00-8.25	Current status and economics of buffalo production worldwide	Antonio Borghese, Italy
KN2	8.25-8.50	Animal welfare issues in dairy farming	Janice Swanson, USA
OP1	8.50-9.05	Mind the gap: awareness and practices among Nepali buffalo farmers related to zoonoses	Durga Devkota, Nepal
KN3	9.05-9.30	Buffalo production for household food security in Nepal	Drona Rasali, Canada
OP2	9.30-9.45	Role of buffalo for diversified enterprises development in Nepal	Raj K Adhikari, Nepal
OP3	9.45-10.00	The economic losses and burden of endoparasites in buffalo and cattles of rural punjab “an underestimated emerging threat”	Muhammad Hassan Mushtaq, Pakistan

10.00-10.10 Coffee Break

Plenary Session II: Genomics and Biotechnology for Buffalo Production

Chair: Bianca Moioli Moderator: Madhav P acharya

KN4	10.10-10.35	Developments and prospects of advance reproductive biotechnologies in buffalo production	Danilda Hufana-Duran, Philippines
KN5	10.35-11.00	Buffalo reproductive biotechnologies: the current status in China	Yangqing Lu, China
KN6	11.00-11.25	Genetic studies in water buffalo	Shujun Zhang, China



KN7	11.25-11.50	Understanding the fertilising ability of buffalo oocytes & spermatozoa in functional genomics prospective	Tirtha Kumar Datta, India
OP4	11.50-12.05	Assessment of X chromosome genetic variation for population genetic analyses of domesticated water buffaloes in Nepal	S. Pérez-Espona/D. Chhetri, UK/Nepal

12.05-13.05 Poster Session (PP1 to PP16)

13.05-14.00 Lunch Break

Plenary Session III: Genomics and Biotechnology for Buffalo Production

Chair: Shujun Zhang Moderator: Doj R Khanal/Saroj Sapkota

KN8	14.00-14.25	Genetic improvement of dairy buffalo, constraints and perspectives. The Italian example	Bianca Moioli, Italy
OP5	14.25-14.40	Function and mechanism of MAP4K4 gene on milk traits and scs between dairy cow and buffalo	Dinesh Bhattarai, China
OP6	14.40-14.55	Authentication of buffalo meat using mitochondrial cytochrome-b gene	Neena Amatya Gorkhali, Nepal
OP7	14.55-15.10	Inhibin-alpha gene silencing on granulosa cells led oocyte development in transgenic mice model	IP Kadariya, Nepal

15:10-15.20 Coffee Break

Plenary Session IV: Buffalo Nutrition and Production

Chair: Nanda P Joshi Moderator: Netra P Osti

KN9	15.20-15.45	Enhancing buffalo production based on feed resources development and innovations	Metha Wanapat, Thailand
OP8	15.45-16.00	Effect of different silage on milk production of indigenous buffalo in western hills of Nepal	MK Shah, Nepal
OP9	16.00-16.15	Effect of challenge feeding during pregnancy on the production and reproduction	SS Hiremath, India
OP10	16.15-16.30	"Weaning induced stress alters immune and endocrine functions in buffalo-calves"	Anas Sarwar Qureshi, Pakistan
OP11	16.30-16.45	Buffalo production and management at National Buffalo Research Program, Nepal	Mohammad Shah Navaz Ali, Nepal
OP12	16.45-17.00	Comparative hoof volume assessment of Nili-Ravi buffalo being reared on different flooring systems	Hafsa Zaneb, Pakistan
OP13	17.00-17.15	Morphological and productive traits of terai buffaloes of eastern Nepal	Saroj Sapkota, Nepal
OP14	17.15-17.30	Effect of Non-genetic Factors on Milk Production Traits of Indigenous Buffaloes (Bubalus bubalis L.) in the Western Hills of Nepal	Nirajan Bhattarai, Nepal
OP15	17.30-17.45	Risk factors, assessment and outcome of failure of passive transfer of immunity in buffalo calves	ST Singh, India

Day 3 (November 17, 2017) (Mangsir 1)

Plenary Session V: Buffalo Reproduction and Breeding

Chair: Inderjeet Singh Moderator: Bhola Shankar Shrestha

KN10	8.00-8.25	Improvement in reproduction through synchronization and resynchronization studies in dairy buffaloes	Nasim Ahmad, Pakistan
OP16	8.25-8.40	Characterization and treatment of infertility in buffaloes of hills and terai region of mid Nepal	Gokarna Gautama, Nepal
OP17	8.40-8.55	Reproductive performances of water buffaloes in selective areas of bangladesh	Nasrin Sultana Juyena, Bangladesh
KN11	8.55-9.20	Update on attempts of developing breeding strategy of Nepalese buffaloes (Bubalus bubalis) during low breeding season	Bhuminand Devkota, Nepal
OP18	9.20-9.35	Timed artificial insemination (TAI) in bangladeshi buffaloes during the off breeding season	Mohammad Harun-Or-Rashid, Bangladesh

9.35-9.45 Coffee Break

Plenary Session VI: Buffalo Reproduction and Breeding

Chair: Nasim Ahmad Moderator: Shambhu Raj Pandey

KN12	9.45-10.10	Fourier harmonic analysis as tool in predicting bull fertility for improved buffalo breeding	Peregrino G Duran, Philippines
OP19	10.10-10.25	Effects of dietary supplementation of feed with omega-3 fatty acids on the freezeability of Nili-Ravi buffalo (Bubalus bubalis) bull semen	Muhammad Zubair, Pakistan
OP20	10.25-10.40	Age related changes in body weight, orchidometry and testicular dynamics in azikheli buffalo bulls raised in swat khyberpukhtunkhwa, Pakistan	Saima Masood, Pakistan
OP21	10.40-10.55	Evaluation of soya lecithin based extender as a substitute of tris-egg yolk extender for the cryopreservation of Nili-Ravi buffalo bull semen	Ijaz Ahmad, Pakistan
OP22	10.55-11.10	Clinical outcome of correction of uterine torsion in pluriparous buffaloes at field level initially treated by non-veterinarian	DK Singh, Nepal



- OP23 11.10-11.25 Breed improvement through intensive local selection of indigenous buffaloes for food & nutritional security and livelihood improvement in mid-hills of Nepal Lok Nath Paudel, Nepal
- 11.25-12.50 Poster Session (PP17 to PP36)**
12.50-13.40 Lunch Break

Plenary Session VII: Buffalo Health

Chair: Daniel Grooms Moderator: Krishna Kafle

- KN13 13.40-14.05 Buffalo mastitis in dairy production: technological advances in understanding of mastitis Neelesh Sharma, India
- OP24 14.05-14.20 Evaluation of mastitis related measures and their application to classify buffalo milk in Chitwan, Nepal Ishwari Prasad Dhakal, Nepal
- OP25 14.20-14.35 Morphometry of udder, teat, and milk vein in Nili-Ravi buffalo (*Bubalis bubalis*) and it's relationship with milk yield Mirza Muhammad Usman, Pakistan
- OP26 14.35-14.50 Udder morphometric observations in murrh and Nili-Ravi buffalo breeds R.S. Singh, India
- OP27 14.50-15.05 Latent bacterial infections in buffaloes: earlier diagnosis through acute phase proteins (APPs) Shafia Tehseen Gul, Pakistan

15.05-15.15 Coffee Break

Plenary Session VIII: Buffalo Health

Chair: Melinda J Wilkins Moderator: Swoyam P Shrestha

- KN14 15.15-15.40 Adapting technologies to improve buffalo health and productivity Daniel Grooms, USA
- OP28 15.40-15.55 Serological and molecular studies of Brucellosis in buffaloes of Punjab, Pakistan Ahrar Khan, Pakistan
- OP29 15.55-16.10 Hemato-biochemical alterations in tuberculin reactor water buffaloes in Pakistan Imtiaz Ahmad Khan, Pakistan
- OP30 16.10-16.25 Pathological investigation of foot and mouth disease in buffaloes (*Bubalus bubalis*) in southern areas of Punjab province, Pakistan Riaz Hussain, Pakistan
- OP31 16.25-16.40 Clinico-hematological and oxidative status of Nilli-Ravi Buffaloes infected with Trypanosomiasis Riaz Hussain, Pakistan
- OP32 16.40-16.55 In vitro and in vivo evaluation of traditional medicinal plants against *Rhipicephalus microplus* (Asian cattle tick) Muhammad Arfan Zaman, Pakistan
- OP33 16.55-17.10 Tick borne diseases exploiting the buffaloes (*Bubalus bubalis*) of Khyber Pakhtunkhwa, Pakistan Said Sajjad Ali Shah, Pakistan
- OP34 17.10-17.25 Impact of climate change on epidemiology of tick-borne haemoparasites in Azakheli buffalo in district Swat, Pakistan Amjad Khan, Pakistan

17.25-17.40 Coffee Break

Closing Session: 17.40 - 18.40

Day 4 (November 18, 2017) (Mangsir 2)

Post-symposium Tour (8.00-12.00): Visit Agriculture and Forestry University, Rampur, Chitwan

Poster Sessions

Evaluation Chair: Janice Swanson, Members: Metha Wanapat, Nanda P Joshi, Drona P Rasali, Tirtha K Datta, Ahrar Khan, Danilda Hufana-Duran

Poster Session I (November 16, 2017)

- PP1 Milk yield response of bypass protein during dry season on smallholder dairy animals in the hills of Nepal Netra P Osti, Nepal
- PP2 Effect of medicated and non-medicated urea molasses multi-nutrient block (UMMB) on milk production, milk composition and gastro-intestinal parasites in buffalo Bijay Khanal, Nepal
- PP3 Use of feeding support tool for enhancing dairy animal productivity Bholu S Shrestha, Nepal
- PP4 Husbandry practice and reproductive performance of buffaloes in Chitwan and kaski districts of Nepal Prakash Adhikari, AFU, Nepal
- PP5 Can music influence milking behavior and yield in buffalo cows? : a review Sanjay Dhungana, Nepal
- PP6 Effect of parity on lactational efficiency of murrh buffaloes (*Bubalus bubalis*) in central Nepal Dikshit Poudel, Nepal
- PP7 Effect of non-genetic factors on lactational efficiency of indigenous buffaloes at different stage of parity in western hills of Nepal Surya P Sharma, Nepal
- PP8 Status of buffalo (*Bubalus bubalis*) production in nepal: a review Ganesh Gupta, Nepal
- PP9 Performance of murrh buffalo, a case of Kaski district of Nepal Uddhav Paneru, Nepal
- PP10 Seasonal variation in fat and SNF contents in the milk of murrh buffaloes in mid-western region of Nepal Jib Raj Poudel, Nepal
- PP11 *Leucaena leucocephala*: a promising forage for improving swamp buffaloes production in Thailand Thongsuk Jetana, Thailand
- PP12 Utilization of rain tree pods (*samanea saman*) as a swamp buffalo feed in Thailand Thongsuk Jetana, Thailand



PP13	Knowledge attitude and practice (KAP) analysis on nutrition, breeding and health management of small holders buffalo farmers around gunjanagar dairy plant, Chitwan Nepal	Sweta Ghimire, Nepal
PP14	Shortening First Calving Age in Buffalo Through Feeding Management	Suman Karki, Nepal
PP15	Arna cross breed: potentiality and scope in Koshitappu region Nepal	Bhojan Dhakal, Nepal
PP16	Translocation of wild water buffalo: a way forward for conservation in Nepal	Rubi Shah, Nepal
Poster Session II (November 17, 2017)		
PP17	Effect of increased doses of final gonadotropin-releasing hormone (GnRH) of ovsynch on corpus luteum function in dairy buffaloes	Shrijana Manandhar, Nepal
PP18	Response of novel hormonal protocol in anestrus buffaloes during different breeding seasons	Shatrughan Shah, Nepal
PP19	Evaluation of ovsynch protocol on reproductive performance of anestrus buffaloes of chitwan, nepal during good breeding season	Chet Narayan Kharel, Nepal
PP20	Pregnancy specific protein B (PSPB) concentration in nepalese buffaloes during first trimester	Ishwor Dhakal, Nepal
PP21	Re-assumption of Ovarian Cyclicity to Induce Pregnancy in Anestrous Buffaloes Using CIDR Synchronization Protocol During Poor Breeding Season	Deepak Lamsal, Nepal
PP22	Evaluation of reproductive traits of Lime and Parkote (<i>Bubalus bubalis</i>) buffaloes in the western hills of Nepal	Pratima Bhandari, Nepal
PP23	Study on factors affecting novel hormonal protocols in anestrus buffaloes during active breeding season	Yagya Raj Pandeya, Nepal
PP24	Study on estrus behaviour with reference to vaginal electrical resistance and analyzing serum biochemical properties during estrus synchronization in crossbreed buffaloes	Dipendra Kandel, Nepal
PP25	Buffalo population and breeding strategies for its genetic improvement in Nepal	Neena Amatya Gorkhali, Nepal
PP26	A review on buffalo breeding system in nepal and future strategies	Uddhav Paneru, Nepal
PP27	Factors affecting success of natural breeding on conception in buffaloes of western Chitwan	Nabin Neupane, Nepal
PP28	Estimation of genetic and non-genetic parameters of murrah buffalo in livestock development farm, Pokhara	Mohan P Sharma
PP29	A holistic veterinary medicine model for the buffalo industry in Thailand	Thuchadaporn Chaikhun-Marcou, Thailand
PP30	Epidemiology of zoonotic brucellosis in livestock farmers in Pakistan; "An underestimated public health problem"	Amjad Khan, Pakistan
PP31	Seasonal prevalence of fascioliasis in buffaloes in different altitude of dhankuta and sunsari districts in Nepal	Ramesh Prasad Sah, Nepal
PP32	Assessment of clinical problems in murrah buffaloes (<i>Bubalus bubalis</i>) in Padampur, Chitwan, Nepal	Milan Kandel, Nepal
PP33	Clinical prevalence of diseases and disorders in buffaloes at the veterinary teaching hospital, Agriculture and Forestry University, Nepal	Bharat Regmi, Nepal
PP34	Breeding Management Practices Among Small Holder Buffalo Farmers in Vicinity of AFU, Rampur	Grishma Neupane, Nepal
PP35	Udder health in relation with udder morphometric traits in riverine buffaloes	Raj Sukhbir Singh, India

Note: We have a dedicated time block on November 16 and 17 to poster presentations. All the posters should be placed on the designated poster stand by 11.00 am on November 16 and removed by 5.00 pm on November 17. Each poster will be available for poster viewing for the entire period, with the presenting author in attendance during the poster time. Posters will be evaluated for "Best Poster Awards".