



e-Newsletter

Guru Angad Dev Veterinary & Animal Sciences

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April - June 2020 (2)

From the Desk of the Vice-Chancellor



The University has been a beacon of light for the livestock owners and/ or entrepreneurs, fishery and dairy sector. In this pursuit, it has always steered its way for upliftment of the farming community, besides has always been at beck and call to provide remedial measures and mitigate the sufferings of speechless animals and their owners. In the same pursuit, the University faculty and staff has come to their rescue, in this catastrophe COVID-19 crises, by providing yeoman service in areas of diagnostic, surgical and/ or medical interventions.

I took over as the Vice-Chancellor of this reputed University amidst COVID-19 crises. We should take this catastrophe as an eye opener to make blue prints and/or to have a living document into road-map of having in place strategies for any future such exigencies due to emerging and /or re-emerging diseases. Further, taking a lead in use of Information and Communication Technologies (ICTs), Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana became the first Veterinary University in the country to implement Learning Management System within a few days of suspension of classes to expedite the online teacher-learner interaction(s), preventing the academic loss of students. Besides, Zoom and Google Meet were also put into use by faculty of the University.

The University is also working on the facet of imparting practical training and will soon come with a solution for practical virtual education by employing augmented reality technology. The University also continued its extension services during the ongoing COVID-19 crises using technology. The Krishi Vigyan Kendra(s) of the University organised online virtual meets of farmers and experts advised them on various farming aspects, online. I appreciate the initiatives of faculty for reaching out to the students, researchers, farmers and entrepreneurs during lockdown.

We can only proceed further by adopting a practical approach and by making optimum use of technology in envisaging the realization of such of activities. The COVID-19 pandemic has fiscally traumatised the whole world, forcing various sectors to shun the jobs. Recovering from the economic impairment is a big challenge and I trust that the professionals being nurtured by the University will serve as asset(s) in this catastrophe by generating employment in the livestock sector.

I feel privileged to release the e-Newsletter of the University for making readers aware about the accomplishments of the university and advise all the stakeholder of the University to adopt all preventive measures to curb the spread of COVID-19.

“TAKE PRECAUTIONS AND STAY SAFE”

(Inderjeet Singh)
(Vice-Chancellor)

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Dr. Inderjeet Singh took reigns as the Vice-Chancellor of the University

Dr. Inderjeet Singh, an astute scientist and the teacher par excellence joined as the Vice-Chancellor of Guru Angad Dev Veterinary and Animal Sciences University (GADVASU), Ludhiana on 11th June 2020. Earlier, Dr. Singh was working as the Director of Animal Husbandry Department, Punjab, since November 2018, which took into its ambit, a dedicated period of three decades in the field of Veterinary Sciences and Animal Husbandry Sector. He is also popularly known as the 'Murrah Man' for his research and expertise in breeding and management of Murrah buffalo which is widely reared by farmers in Punjab and Haryana.



Dr. Inderjeet Singh, Vice-Chancellor of GADVASU

Dr. Singh did his Ph.D. in Animal Reproduction from University of Liverpool, United Kingdom. He worked in different capacities at CCSHAU and ICAR-Central Institute for Research on Buffaloes (CIRB), Hisar (Haryana). He took over as the Director of CIRB in 2013 and served the institute in this capacity for nearly five years.

Dr. Singh is the fellow of many scientific societies and has many a feather in his cap in form of scientific awards and recognitions encompassing 'Executive Officer, Asia, International Buffalo Federation (IBF), 2018', 'Member, Standing Committee, IBF, 2018', 'Distinguished Scientist Award by the Indian Society for Buffalo Development, 2018', 'Fellow, National Academy of Dairy Sciences (India), 2018', 'President, Asian Buffalo Association, 2015-18', 'Commonwealth Academic Staff Scholarship, 1991-94' and many more. He has visited Germany, Brazil, Bangladesh,

Philippines, Nepal, Pakistan, Turkey, United States, China, France, Ireland, Holland, and United Kingdom on various academic and research assignment(s).

Dr. Singh served as Member of the Livestock Development Board(s) and Animal Husbandry Departments of State Government(s) for Establishment of National Kamdhenu Breeding Centres at Madhya Pradesh and Andhra Pradesh and for Implementation of National Livestock Mission in Rajasthan and Haryana. He has been instrumental in preparation of Bovine Breeding Act and Dairy Cattle Feed Act for the Department of Animal Husbandry, Government of Punjab.

Dr. Singh in his address to the officers of the University, faculty and staff in a meeting and acknowledged his predecessors for their contribution for upliftment of the university to such a stature. To take the legacy further to new heights and for the development of livestock sector in general and farmers in particular, the Vice-Chancellor emphatically stressed upon the collaboration and cooperation with Indian Council of Agricultural Research (ICAR), State Department of Animal Husbandry and other related departments be given top priority. Dr. Singh envisioned for improving the quality of academic, research and extension activities of the University for uplifting the economic status of farmers of the state. Dr. Singh, further added that the University will develop human resources as future entrepreneurs who are not tempted towards Government jobs, rather would be job providers. He expressed that he will support the faculty and employees of the university in all manners to explore their full potential.

Dr. Inderjeet Singh emphasised on following special precautionary efforts during COVID-19 pandemic and urged for the need to work in unison to fight this situation and help all the stakeholders involved in the value chain of livestock, poultry and fisheries sector by suggesting them appropriate advisory, remedial and other services.

Dr. Inderjeet Singh visits Krishi Vigyan Vigyan Kendra and RRTC, Booh

Dr. Inderjeet Singh, Vice-Chancellor of the University visited the Krishi Vigyan Kendra (KVK) at Booh (Tarn Taran) and monitored the ongoing construction work of Regional Research and Training Center (RRTC) on Buffaloes. Dr. Singh minutely examined the work and gave valuable suggestion(s) for sprucing up the state-of-the-art infrastructure at the Center for delivering best facilities to the livestock farmers. Dr. Singh further said that the RRTC will be momentous for providing the germplasm and demonstrating best management practices to dairy farmers for their adoption.

At KVK, the Vice-Chancellor witnessed exhibition and various demonstration stalls and also a de-tour of Farmer Field School on Integrated Pig-cum-Fish farming unit established under the guidance of KVK at village Chappri Sahib. The Vice-Chancellor interacted with farmers and shared useful tips for efficient management and marketing of livestock. Dr. Singh informed farmers that the University is contemplating training for farmers on Artificial Insemination in pigs and shared with them that the semen of new germplasm brought from United Kingdom will be made available to the Pig farmers.



Dr. Inderjeet Singh, Vice-Chancellor at KVK Booh

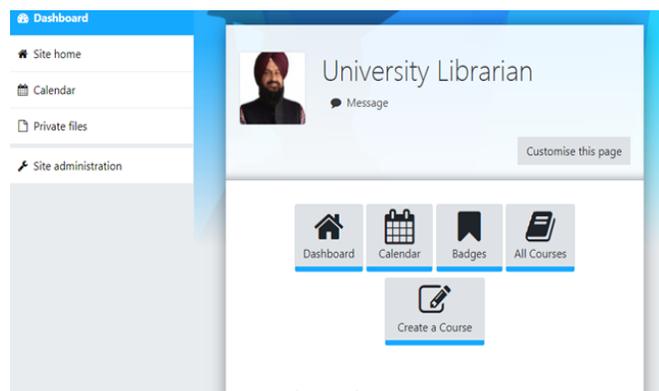
Development and Implementation of Learning Management System in Response to COVID-19 Crisis

COVID-19 pandemic, albeit halted various University affairs triggering the academic institutions to explore alternative ways and strategies of reaching out to the students at their places for imparting them uninterrupted education. To expedite the teacher-learner interaction in such type of exigencies, the University Library, GADVASU devel-

oped and implemented Moodle Learning Management System in the University on April 3, 2020. This e-Learning portal developed by Dr. H S Banga, University Librarian, Dr. Nirmal Singh, Assistant Librarian and Mr. Parminderdeep Singh Mangat (CO-Web Programming) has been named as 'e-Harnirdesh' representing global teacher-learner interactions. The faculty of the university immediately started using e-Harnirdesh for taking online classes, giving assignments, sharing information resources with students vis-à-vis for other academic activities, thus preventing academic loss to the students.

To make it a wholesome package for addressing various academic activities, e-Harnirdesh was integrated with Microsoft Office. This amalgamation features; the live streaming of online classes and all features of Moodle platform including teacher-student chat, giving assignments and online grading, quiz, survey, customizable dashboard for each user (teacher and student), flexibility to upload various formats of information resources, etc. The e-Learning portal takes into its ambit all the features required to impart veterinary and animal sciences education both at UG and PG level as per VCI and BSMA guidelines.

The 'e-Harnirdesh' has been customised to meet the requirements as per syllabi of veterinary and animal sciences institutions. This programme is further less vulnerable to cyber attacks as the software setup and data is hosted on local server. It also features the archiving of all the activities and resources uploaded. The e-Learning portal of the University will in fact support not only the academic programmes of the university but will also be used for imparting trainings to farmers in online-interactive mode.



Administrator's module of e-Harnirdesh

Digital Repository of the University

The University Library has also developed an institutional repository of articles published by the faculty. The repository developed by Dr. Nirmal Singh, Dr. H.S. Banga, Dr. J.P.S. Gill, Director of Research and Sh. P S Mangat has been customized to retrieve articles as per NAAS Rating and Impact Factor, i. e. matrix required for compilation of reports of the University involving data about university publication(s). The digital contents available on the repository are accessible to fraternity of the University including faculty, students and researchers for better comprehension of the teaching and research activities. The repository has following features:

- Every department has been assigned username and password for uploading publications by respective faculty members.
- The data can be accessed at university level, college level, department level vis-à-vis at an individual level.
- The Discover feature and browse option have been customized to retrieve articles based on NAAS Rating and Impact Factor.

GURU ANGAD DEV VETERINARY AND ANIMAL SCIENCES UNIVERSITY
ਗੁਰੂ ਅੰਗਦ ਦੇਵ ਵੈਟਨਰੀ ਐਂਡ ਐਨੀਮਲ ਸਾਇੰਸਜ਼ ਯੂਨੀਵਰਸਿਟੀ

Digital Repository of Guru Angad Dev Veterinary & Animal Sciences University

Recent Submissions

Substitution of soybean meal with fermented Jatropha kernel meal: effect on growth performance, body composition, and metabolic enzyme activity of *Labeo rohita* [View](#)

A 60-day feeding trial was conducted to evaluate the nutritional potential of fermented Jatropha kernel meal (FJKM) in the diets of cattle, Labeo rohita, Singapore. Four iso-energetic (236 g/kg) and iso-nitrogenous (20 MJ/kg) diets containing 0, 100, 200, and 300 g/kg FJKM.

Communities in DSpace

Choose a community to browse its collections.

Articles	Photographs	Reports
1	1	1

Discover

Author	Subject	Date Issued	Impact Factor
Gill, Jatinder Paul Singh (1)	India (1)	2016 (12)	
Mehra, Nitin (1)	Butalulus bubalis (1)		
Bedi, Jasbir Singh (2)	Buffalo (1)	0.28 (2)	
Honparkhe, Mingank (1)	buffaloes (1)	0.20 (1)	
Pratap, Devedra (1)	Murrah buffalo (1)	0.12 (1)	

Useful Links

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Home page of the Digital Repository

University was front runner to serve the livestock sector

GADVASU reopened on 12 May 2020 to undertake 'Urgent, Need based University work', in accordance with guidelines of the government, observing all hygiene and/or sanitary guidelines along with social distancing norms prescribed by Punjab Government. The University's specialized veterinary clinics was getting 50-100 sick animals daily for treatment during lockdown period under emergency services.

Corona Warriors of GADVASU

Ten scientists from the University were deputed in different Medical colleges of state to provide COVID-19 diagnostic facilities. Besides providing two Real-Time PCR testing machines for COVID-19 diagnosis, the University trained medical support staff in conducting these diagnostic tests. Dr(s). Rajnish Sharma, Mudit Chandra, JS Arora, Neeraj Singh, Harsh Pawar and Omar Khaleel Baba joined duty at Medical College, Patiala, while Dr(s). Mohan Jairath, Deepali, Jaspreet Kaur and Ms Astha Sharma assumed duties at Medical College, Amritsar as COVID warriors.



Corona Warriors of GADVASU

Demise of University Scientist Dr Kirti Dua

Dr. Kirti Dua, Incharge, Centre of Wild Life and Professor, Veterinary Medicine, GADVASU passed away on 01 June 2020. Dr. Dua was a splendid teacher and scientist of national repute. Dr. Dua was a lively and adventurous person, good orator, artist, writer and above all a generous man. He started a Farmer Welfare Society for providing free food to the poor farmers visiting the University hospital and gave free medicines for their sick animals. His untimely demise is a great loss to the Veterinary Profession.



Dr. A S Nanda retires from GADVASU

After heading GADVASU as the Vice-Chancellor for more than 5 years, Dr. Amarjit Singh Nanda relinquished the services of the University. The University faculty and staff wished him a happy and healthy post retirement life.



Virtual celebration of 'World Veterinary Day'

The faculty, staff and students of the College of Veterinary Science did celebrate World Veterinary Day (WVD) on 25th April, 2020 in a unique manner. Outreach approach using the 'on-line' platforms was adopted to connect to and involve a large number of students and others in an awareness campaign. University's IDP Cell organized Poster Making Competition and Quiz Competition on the theme of 'Environmental Protection for Improving Animal and Human Health'. The concept of 'One Health' has further become more important amidst a massive global war against COVID-19. Students Pritam Singh, Ginnee and Purnima won awards in Poster Making and Rupinder Singh Jashandeep Singh, Gurjot Singh and Satnam Singh won prizes in quiz competition. The Vice Chancellor congratulated the entire veterinary fraternity, and others associated to animal welfare, health and production and called for proactive participation of the scientists, the farmers, the civil society and the government in addressing to the animal oriented environment issues so as to save ourselves from emerging human health problems.



Training(s)/Workshop(s)/Webinar(s)/Advisories

Advisory on Bio-security of pig farms

First outbreak of African Swine Fever (ASF), a viral disease in north eastern states of country, is emerging cause of concern for Pig farmers due to heavy mortality and economic losses. In such a situation, awareness and attentiveness of pig farmers hold key for successful protection of pigs from this disease as currently 'No vaccine' is available against the disease. Wild pigs without any clinical signs are natural host of this disease.

The University experts advised the farmers to observe strict Bio-security measures via regulating entry of vehicle, equipments, persons and roaming and scavenging pig population. The experts advised regular cleaning of pigs, with disinfectant or hot water. The farmers were also advised to ensure the control of ectoparasites in pigs and farm premises, as Ticks are main transmitting agent.

National Webinar on Technological Innovation and Entrepreneurship in Animal Industry

Department of Livestock Products Technology, GADVASU organized National Webinar on 'Technological Innovation & Entrepreneurship in Animal Industry By- Products' under the aegis of ICAR-Institutional Development Project of National Agricultural Higher Education Project. A total of 800 participants comprising of students, faculty and industry personnel registered for the programme, 100 of whom were selected for livestreaming by the organizing committee.

The expert(s) presented their view on scope, potential, utilization and value of the byproducts of meat and milk industry. The participants were also informed about the opportunities for the entrepreneurs and basic requirements to become entrepreneurs. Dr. Inderjeet Singh, Vice Chancellor of the University applauded the efforts of scientists for highlighting such an important issue and stressed on the need based research and development of liaison with the industry.



Webinar on Industry-Academia Interface

College of Dairy Science & Technology organized National Webinar (Industry Academia Interface) on topic 'Indian Dairy Processing Sector Amidst Covid-19 Crisis' under the Institutional Development Project (IDP). Experts apprised the participants about the challenges faced in dairy industry during the COVID-19 pandemic, the real time problems faced from procurement of milk to its sales, needs for value addition of milk during and after COVID-19 pandemic, etc. The experts emphasized on the Industry-Academia Interface at National Level to prioritize after COVID-19 fallout.

Industry-Farmer-Academia Webinar

College of Fisheries organised an Industry-Farmer-Academia Webinar on 'Covid-19 Crisis: Mitigation Strategies for Shrimp Farmers of Punjab' under the Institutional Development Project (IDP). The online meeting was arranged to foster the resurgence amongst the bemused shrimp farmers of Punjab and Haryana during COVID-19 pandemic crises. The students of fisheries also attended the virtual event to understand the impact of ongoing lockdown on shrimp industry from farmer and industry perspectives, so as to develop a better vision to tackle any such situation in future.

An eminent shrimp entrepreneur-cum-industrialist Dr. Manoj Sharma, Director Mayank Aquaculture Private Limited, Surat (Gujarat), apprised the participants of Indian shrimp industry scenario and strategies for sustainability. With the message 'Food is a Necessity, Not an Option', dilemma trapped farmers were advised to stock their ponds, as food production has been affected worldwide and their crops will definitely fill the gap, both at national and international levels. Experts advised farmers to form an association to overcome such unforeseen calamities in future.



Industry-Farmer-Academic Webinar

Advisory for fish farmers to reap maximum benefit in summer season

To reap maximum benefit of the fish growing season in Punjab, during summer months, it is vital to take care of the stock during the summer season to protect it from temperature exceeding 35⁰C. The University Experts advised farmers to maintain the water depth of 5-6 feet in ponds used for fish farming to provide sufficient comfortable zone to the fish below the surface layer, which gets heated up beyond optimum temperature range (28-32⁰C) during the summer months. The experts advised to aerate the ponds during early hours of the day be-

fore sunrise, either by adding fresh water or by aerators to ensure high oxygen content to keep the fish healthy and increase its food converting efficiency. The nutrient rich pond water can be used to irrigate the paddy fields during this time and fresh water can be added in the fish ponds. It will improve water quality in the pond and reduce fertilizer requirement of the paddy crop as well. Experts also advised farmers about manuring, sustainable plankton, nutritionally balanced supplementary diet, monitoring of water pH, regular bottom racking of pond, etc. Adhering to the golden rule of 'Prevention is Better than Cure' for disease management, expert(s) advised farmers to follow the recommended prophylactic measures with lime, potassium permanganate or 'CIFAX', so as to maintain fish health and case of disease occurrence and consult an expert for diagnosis and treatment.

Best milk handling practices is must for good health and better profit

To prevent the defoliation of milk quality during the summers and rainy days, the University issued an advisory for dairy owners and milk handlers to keep themselves ready for the better handling of milk so that the best quality milk and milk products can be provided to the consumers. The experts advocated milking of healthy animal only, personal hygiene of the person handling the animal and milking, proper cleaning of milking area, proper washing of the udder and teats of the animal before milking, thorough washing of utensils or milking machine and milk storage vat/utensil, use of hot water to wash the milking equipment's, etc. Farmers were also advised to keep the milk at room temperature, not to mix anything in milk as it is counted as adulteration and not to follow any animal health related advice of any person other than the veterinary doctor. By following these practices, one can deliver healthy product and win the confidence of consumer.



Hygienic practices being followed

Advisory on proper management of livestock during summer

Rise in environmental temperature puts a great stress on the dairy animals. High temperature lowers the milk production of animals due to lower feed intake and added heat load on the animals. In view of this the University issued an advisory to farmers for proper shelter and housing management, water application, changes in feeding regime, preventive health management etc. to minimize the effect of thermal stress. The experts advised well ventilated sheds with proper standing and resting space for dairy animals. As water is the most essential input in summer, and water splashing, showering, sprinkling and fogging of water on animals, inside the shed 3-4 times during hottest part of the day (11.00 AM to 4.00 PM), again reduces heat load and enhance productivity due to evaporative cooling. On large-commercial dairy farms various cooling devices viz. fans, wet curtain or panels, air cooler or conditioners etc. may be used during extreme hot condition. Experts advised farmers for providing concentrated mixture containing more than 18% Digestible protein and 70% Energy contents along with palatable, digestible and laxative fodders to the animals and advocated the increase in proportion of green fodder. Supplementing dietary sodium and potassium increases milk yield during the period of heat stress. The experts advised farmers to follow proper de-worming and vaccination schedule for maintaining the health of animal. As Bio security is the key during this time, experts advocated that no visitor/outsider should be allowed to enter farm premises and at the entry disinfectant should be dusted. Proper care and management technique(s) during summer season helps the farmers to maintain healthy animals, yield more milk and assured profit from dairy farming.



Sprinklers being used to keep Buffaloes cool

Activities of Krishi Vigyan Kendra(s)

'World Digestive Health Day' celebrated

Krishi Vigyan Kendra (KVK), Booh (Tarn Taran) of GADVASU celebrated the *World Digestive Health Day*. On the occasion, an online workshop under the theme 'Vegetable processing at small scale' was organized to enlighten the farming community about the need of vegetable processing, aiming both at good digestive health and improved livelihood security. A total of 25 farmers participated in the virtual event.

World Milk Day Celebrated

KVK, Mohali of the University celebrated World Milk Day on its campus. All the faculty members and staff of KVK participated in the event. Food and Agriculture Organization (FAO) of the United Nations recognized the importance of milk as global food and the Milk Day is observed to focus attention on milk and raise awareness of dairy's contribution in healthy diet, responsible food production, and supporting livelihoods and communities associated with dairy.

Farmer webinar on 'Livestock production vis-à-vis Covid-19 pandemic'

KVK, Booh of the University organized an online workshop entitled 'Livestock production vis-à-vis Covid-19 pandemic' from its campus. A total of 50 farmers participated in the workshop and got benefited. The University experts interacted with livestock and fisheries farmers and motivated them to take a step forward in livestock rearing and fish farming by following the University recommendations for escalating their dairy and fishery farm income. The participants were imparted knowledge about feed management practices, gynaecological procedures and breeding related issues, management of livestock in summer season and fodder and milk production for dairy animals.

Cost-effective Hand sanitizer prepared

Accepting the call to fight COVID-19 through 'Mission Fateh' of Punjab Government and in compliance to the recommendation(s) for routine use of sanitizer during COVID-19 crisis, under the guidelines issued by World Health Organization (WHO), the Department of Pharmacology and Toxicology of the University prepared a cost-effective alcohol-based hand sanitizer.

Students' activities

National On-Line Poster Competition

To brush up young minds of undergraduate students to understand effects of ongoing COVID-19 lockdown on fisheries sector, an on-line national poster making competition under the theme 'Impact of COVID-19 on Fisheries' was organized by College of Fisheries of the University, under ICAR's NA-HEP-IDP. A total of 62 students from different Colleges of Fisheries representing 20 universities pan-India participated in the event, propagated through various social media tools.

Participating students showcased the impacts of COVID-19 pandemic on aquaculture activities and industrial breakdown, besides highlighting positive effects of lockdown on natural aquatic resources, through their poster making skills. The panel of experts comprising fine arts experts and scientists critically evaluated the posters made by students with respect to presentation, theme, originality and clarity of expression. Poster submitted by Ishita. J. Bambhaniya of College of Fisheries Science, Veraval, Junagadh Agricultural University bagged the 1st position, while posters of Mitila Milind Mirajkar from College of Fisheries, Ratnagiri, Dr. Balasaheb Sawant Konkan Krishi Vidyapeeth and Merin Treesa Varghese from Kerala University of Fisheries and Ocean Studies, Kochi, Kerala were adjudged 2nd and 3rd best posters, respectively.

Dr. Kulbir Singh Sandhu, Dean, College of Fisheries applauded the IDP cell of the University for organizing such a brain storming event for undergraduate students. Dr. Sandhu also appreciated all the participants of the event.



Poster on the theme of Impact of COVID-19 on Fisheries

Environmental concerns showcased by students amidst COVID pandemic

College of Fisheries organized a national e-Poster Competition on the occasion of 'World Environment Day' under the themes 'Time for Nature' and 'Impact of COVID-19 on Nature'. Owing to COVID-19 havoc, online entries for participation were invited from the students of state agricultural and veterinary universities of the country. A total of 82 students from 46 colleges of 17 states across India, reflecting unfeigned concerns of the young minds towards environmental issues, especially global warming, pollution and over exploitation of resources participated in the virtual event. Posters of Pritam Singh and Niharika Maurya, students of College of Fisheries, GADVASU won 1st and 2nd positions, respectively. Posters of Ritisnata Nayak, the student of College of Fisheries, Junagadh Agricultural University, Veraval, Gujarat and Astha Arya, College of Fisheries, Govind Ballabh Pant University of Agriculture and Technology, Pantnagar, Uttarakhand, shared 3rd position.

Admiring the prodigious efforts made by the all the students in reproducing their heart felt ideas on the canvass, Dr. K.S, Sandhu Dean, College of Fisheries congratulated the winners and further advocated the organization of such more events for enlightening the young minds to provide a healing touch to the earth for a better fu-



Posters prepared by students