



NAAC ACCREDITED 'A++' GRADE COLLEGE

2022-2023

Name of the Department: Department of Zoology & MHRFDC, Hansraj College, University of Delhi (in association with Centre for Skill Development and Seri-technology)

Name of the Event: Sericulture

Date of the Event: 22nd -27th June, 2023

Session- I-22.06.2023

Our keynote speaker Prof. Shyam Kumar V., Professor, Department of Microbiology and Biotechnology, Karnatak University, Dharwad discussed on the topic “The past, present, and future of silk”. His talk included the description of the elegant textile-Silk and he presented his views on the futuristic approach to sericulture, silkworm as an ideal laboratory tool focusing on the different types of silkworm rearing in India. His talk gave a premise for the faculties who had joined the FDP to build a holistic idea about sericulture and what all approaches are to be taken in teaching it as well as building it as a skill for the students and other stakeholders.

Session- II-22.06.2023

Dr. B Srinath, Scientist D, REC, Vikarabad gave a lecture on “Prospects of mulberry cultivation”. His talk focused on the cultivation of mulberry. He focused on the suitable pH of soil for optimum growth of the plant. If the soil is highly acidic or alkaline corrective measures should be taken with lime and gypsum. Further he talked about the plantation of cutting, fertilizers and manures, plantation systems, etc. He discussed in details about different mulberry varieties and suitability in various geographical condition including mulberry diseases.

Session- I-23.06.2023

Dr. E Muniraju's, Scientist- F, KSSR&DI and Joint Secretary, SAI, Bangalore, Karnataka. Dr. Muniraju brain storming lecture was on “Silkworm rearing techniques” and he emphasized on different silkworm rearing techniques, various types of disinfectants and applications methods. He discussed about the latest rearing techniques, silkworm races adopted by the serifarmers. He explained the mulberry cultivation aspect and connected how nutrient variation can be estimated between good and bad quality mulberry leaf, how the leaves are chopped and broadcasted for the hatched larvae to feed. Rearing environment and role in silkworm rearing and different types of cocoons production. His talk also focused on the care of larvae during moulting and maintenance of hygiene in the rearing room.

Session- II-23.06.2023

Dr. Ravindra Bhandiwad lecture was focused on the “silk cocoon reeling”. He explained about the silk protein, cocoon harvesting and cocoon stifling and reeling machines. Dr. Ravindra showed how silk cocoon can be reeled on different reeling machines. He discussed about the water quality impact on silk reeling and showed charkha, automatic reeling machines, multiend reeling machines and



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operational methods. At the end he explained about reeling aspect and raw silk scenario in India.

Session- i-24.06.2023

Dr. Vemanandha Reddy, Rt. Scientist D-SSTL-NSSO-CSB-Bangalore, gave a talk on “Silkworm egg production” methods of mulberry silkworm egg production in India. Quality seed production depends on basic seed management, seed cocoons generation, seed production, quality control, marketing. He talked about the different parameters for multi and bivoltine dfls and cross breed dfls. Dr. Reddy explained in details about the loose egg and sheet egg preparation. Hot and cold acid treatments in silkworm egg production. He also showed the grainage operational techniques and production of disease free laying.

Session- II-24.06.2023

Dr. Jyothi N.B., Scientist- E and Head, Insect Pathology and Pest Management Section, KSSR&DI, Bangalore. She gave a talk on “Silkworm pathology” and disclosed the diseases of silkworm *Bombyx mori* and their integrated management. She focused on the causative agents, source of infection of the various diseases. Dr. Jyothi discussed about the protozoan, fungal, bacterial, viral diseases including of the silkworm. She explored the various diagnosis methods of diseases alongwith molecular pathological techniques. She also showed SEM and TEM images of different diseases causal organism.

Session-I-26.06.2023

Dr. Mahendra Singh Rathore talked about “Tasar silkworm rearing technology” and various aspects of tasar silkworm rearing, egg production and farmers inputs. Dr. Rathore disclosed the various tasar silkworm races, tasar silkworm rearing techniques, tasar cocoon production, tasar based products development, tasar egg production and diseases management. His talk also focused on tasar silkworm breeding and development of hybrid tasar races. The different ways through which tasar culture can be enhanced and get best cocoon production.

Session- II-26.06.2023

Sh. Ashok Kumar, Scientist- B, STSC- Bilaspur, A unit of CSTRI, BTSSO, CSB gave a talk on “Tasar Silk Reeling” in Tasar Sector. He focused on tasar post cocoon technology. He explained about the processing various methods of processing and segregation of cocoons based on quality and tasar silk reeling and its products. He discussed about the reeling water quality impact on reeling. He also displayed automatic reeling machines, charkha, solar reeling machines and operational methods.

Session- I-27.06.2023

Dr. Rajesh Raghu K, Head, Research and Development, Department of Biotech, Kumar Organic Products Pvt. Ltd., Bangalore, India gave a talk on “Silkworm proteomics” elucidating the molecular complexity of the silkworm through proteomic approach. He discussed antibody- based methods, western blotting and other techniques involved in the proteomics and application of the proteomic findings such as development of targeted therapies, improved disease management, enhance overall health and productivity of the silkworms and disease specific biomarkers.

Session- II-27.06.2023

Dr. A. Venugopal, Director, Basic Tasar Silkworm Seed Organisation, CSB, (Ministry of Textiles, Govt. of India), Bilaspur, C.G., India was our guest of Valedictory session and discussed the “Status

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of raw silk production in India". He talked about how silk industry has high employability and is the second largest employer after the handloom sector. He discussed the four types of silk and their distribution in India and tribal people in India engage in tasar silk production which accounts for 14.6% of Vanya silk production. Engaging the tribal people in sericulture will increase their employability and income. Overall, he gave a complete scenario of tasar silkworm from soil to silk.

Participants were interacted with the experts and resolved their queries and appreciated the FDP experts. Session was ended with the vote of thanks given by Dr. Dhiraj Kumar, Convener, FDP (Sericulture).

POSTER:

Mahatma Hansraj Faculty Development Centre
(A Centre of MoE, Govt. of India, under PMMMNMTT Scheme)
Hansraj College, University of Delhi
(NAAC ACCREDITED A++ GRADE)
in collaboration with
**Centre for Skill Development and
Seri-technology**
&
Department of Zoology, Hansraj College
is organising
One Week (online) Faculty Development Programme
on
Sericulture
22nd - 27th June, 2023
Registration Link:
<https://shorturl.at/xBDIW>

zoom

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GLIMPSES



ATTENDANCE:

1	Aiswarya Pati	27	Mukesh Kumar
2	Ajay Kumar	28	Pooja Jha Maity
3	Ajay Singh Shakya	29	Pooja Suman
4	Amit	30	Poonam Rani
5	Amit Kumar Rawat	31	Rabbind Singh A.
6	Anita Thakur	32	Ramrati Nishad
7	Anup Eden	33	Ravi Kumar
8	Arti Mishra	34	Ravi Kumar Goan
9	Arti Rathore	35	Ravi Kumar Goswami
10	Arvind Kumar Shakya	36	Ravikant Prasad
11	Ashish Kumar Sahu	37	Saba Zulfiquar
12	Beena Bhandari	38	Sadhana Shrivastava
13	Chandra Kant Singh	39	Sahil Mehta
14	Chitramani Shrimali	40	Satish Kumar Ramteke
15	Deepak Yadav	41	Shamli S Gupte
16	Dharmika Agrawal	42	Shivani Kumari
17	Dinesh Kumar Gautam	43	Shivani Singh
18	Divya Gupta	44	Shruti Dixit
19	H Yarreiphang	45	Shubham Singh
20	Kamlesh Kumari	46	Sneh Sagar
21	Kaveri Chakrabarty	47	Sudhida Gautam
22	Kishan Kumar Maravi	48	Sushil Kumar
23	Kushneet Kaur Sodhi	49	Yasha Yadav
24	Manisha Saini	50	Yogendra Sahu
25	Mansi Verma	51	Bal Krishan
26	Monika Bareth		