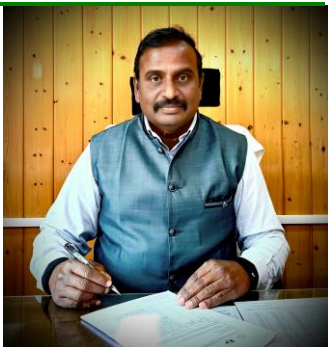


BIO-DATA OF DR N. SAKTHIVEL, DIRECTOR
CENTRAL SERICULTURAL RESEARCH AND TRAINING INSTITUTE
CENTRAL SILK BOARD, MINISTRY OF TEXTILES, GOVT. OF INDIA
PAMPORE – 192 121, JAMMU & KASHMIR, INDIA

1. NAME	Dr. N. SAKTHIVEL	
2. QUALIFICATIONS	<i>M.Sc., M.Phil., B.Ed., Ph.D., F.E.S.I., F.S.B.A., F.S.B.E.R., F.S.T.A.,</i>	
3. DESIGNATION	DIRECTOR	
4. ORGANIZATION	CENTRAL SILK BOARD Ministry of Textiles, Govt. of India	
5. DATE OF BIRTH	15-05-1967	
6. AGE	59 Years	
7. SEX	Male	
8. NATIONALITY	Indian	
9. PRESENT ADDRESS	Dr. N. Sakthivel, Director Central Sericultural Research & Training Institute Central Silk Board, Ministry of Textiles Government of India, National Highway - 44, Galander, Pampore -192121 (J&K) Mobile: (+91) 98427 61789 & 82480 67939 Email: drnsakthivelcsb@gmail.com & sakthin.csb@nic.in	
10. PERMENANT ADDRESS	Dr N. Sakthivel, Door No. 115/8A, 7th Cross, 2nd Main Road, Shivaya Nagar, Alagapuram (Post), Salem - 636 016 Tamil Nadu	

11. ACADEMIC RECORDS

Degree	Subjects	Year	Class	University / Institution
B.Sc.,	Main: Zoology Ancillaries i) <i>Botany</i> ii) <i>Chemistry</i>	1987	I	Erode Arts College, Erode Bharathiar University Coimbatore, Tamil Nadu
M.Sc.,	Main: Zoology Optional subjects: i) <i>Plant Pests & Pest management</i> ii) <i>Environmental Biology</i>	1989	I*	Kongunadu Arts & Science College, Coimbatore Bharathiar University Coimbatore, Tamil Nadu
M. Phil.,	Economic Entomology	1990	I	<u>Fredrick Institute of Plant Protection & Toxicology</u> Tamil Nadu Madras University Chennai, Tamil Nadu
B.Ed.,	Zoology	1991	II	Annamalai University Annamalainagar, TN
Ph.D.,	Sericulture	2013	Highly commended	Regional Sericultural Research Station, Central Silk Board, Salem, Periyar University Salem, Tamil Nadu

* University Second Rank

12. DETAILS OF THESES SUBMITTED (4)

Degree	Title of the thesis
B.Sc.,	Studies on the effect of insulin on carbohydrate metabolism in an Indian carp <i>Cyprinus carpio</i> (Lin. 1758)
M.Sc.,	Studies on the enzyme phosphatase in the freshly laid eggs of the insect pest <i>Dysdercus cingulatus</i> (Hemiptera: Pyrrhocoridae)
M.Phil.,	Impact of application of cypermethrin on the biochemical parameters of brinjal and its influence on the biology of the whitefly <i>Bemisia tabaci</i> (Gennadius)
Ph.D.,	Studies on utilization of tapioca (<i>Manihot esculenta</i> Crantz) for ericulture in Tamil Nadu

13. EXPERIENCE

Total 34 years' experience in Research & Developments and extension in Central Silk Board, Ministry of Textiles, Government of India including Mulberry, Tasar & Eri sectors.

Position held	From	To	Pay Scale (Rs.)	Total experience
Director	01.02.2026	Till Date	1,23,100-2,15,900	w.e.f. 01.02.2026
Scientist – D	26/02/2014	31.01.2026	78,800-2,09,200	12 years
Scientist – C	05/02/2007	25/02/2014	15,600-39,100 BP-3	07 years
Senior Research Officer	05/02/2002	04/02/2007	8,000-275-13,500	05 years
Senior Research Assistant	05/02/1992	04/02/2002	5,500-175 – 9,000	10 years
Total Experiences				34 years

14. EMPLOYMENT RECORDS

Sl.	Lab / Institute	Designation	Duration	
			From	To
1.	BSM&TC, Kathikund	Senior Research Assistant	05.02.1992	05.06.1996
2.	GEC, Dharapuram	Senior Research Assistant	06.06.1996	31.05.1997
3.	GEC, Gudiyatham	Senior Research Assistant	01.06.1997	30.05.1998
4.	GEC, Palacode	Senior Research Assistant	01.06.1998	26.05.2001
5.	RSRS, Salem	Senior Research Assistant Scientist – B (w.e.f. 05.02.2002)	27.05.2001	15.06.2006
6.	REC(SU), Neyveli	Scientist – B Scientist – C (w.e.f. 05.02.2007)	16.06.2006	21.10.2009
7.	REC, Srivilliputtur	Scientist – C Scientist – D (w.e.f. 26.02.2014)	22.10.2009	30.11.2015
8.	RSRS, Salem	Scientist – D	01.12.2015	31.03.2021
9.	REC, Aizawl	Scientist – D	01.04.2021	18.03.2023
10.	CSGRC, Hosur	Scientist – D	19.03.2023	28.01.2026
11.	CSR&TI, Pampore	Scientist – D Director (w.e.f. 01.02.2026)	29.01.2026	Till date

15. NUMBERS OF RESEARCH PROJECTS HANDLED (9)

As Principal Investigator: (5)

- i) Studies on incidence, crop loss and management of spiralling whitefly *Aleurodicus disperses* Russell (Homoptera: Aleyrodidae) infesting mulberry in Tamil Nadu (3 years - 2001 to 2003) funded by Central Silk Board.
- ii) Evaluation of different water spraying methods for management of papaya mealybug in mulberry (6 months 2011) funded by Central Silk Board.
- iii) Standardization of “Thermal weeding” techniques for mulberry garden (6 months) funded by Central Silk Board. (November 2013 to April 2014). Project Code MPT(S)-0054, RSRS, Salem, Tamil Nadu.
- iv) Development of a user-friendly technique for transplantation of mulberry saplings using auger and studies on its impact on labour economy, growth and yield parameters of the plants (one year: April 2014 – March 2015) funded by Central Silk Board.
- v) PIE06008SI: Exploration-collection, conservation, re-establishment and supply of mulberry genetic resources- Phase X (From 1st June 2025 to 28th January 2026)

As Co- Investigator: (4)

- i) Ericulture in Tamil Nadu, Pondicherry and Kerala states in India: A study on feasibility and technology development, refinement and transfer (3 years- 2003 to 2006) funded by Central Silk Board.
- ii) Pre-authorization Field Trials of L14xCSR2: A new Polyvoltine x Bivoltine hybrid with superior fiber qualities funded by Central Silk Board (2013-2014).
- iii) Survey and surveillance of major pests and their natural enemies in mulberry eco-system” funded by Central Silk Board (2015-2017). Project Code PRE-3527, CSR&TI, Mysore.
- iv) Silkworm disease monitoring of seed and commercial crop rearing of south Indian states funded by Central Silk Board (2014-2018). Project Code: ARP-3519, CSR&TI, Mysore.

16. NUMBERS OF RESEARCH PROJECTS CO-ORDINATED (1)

- i) **Impact of Repeated Applications of Chemical Fertilizers in Mulberry Cropping System on Physico-chemical Properties of Soil and Ground Water in Sericulture Villages of Tamil Nadu**, UGC sponsored minor project, Department of Chemistry, JKK Nataraja College of Arts & Science, Komarapalayam, Namakkal District, Tamil Nadu. Principal Investigator: S. Arulmozhi Devi, Coordinator: Dr N. Sakthivel, CSB-RSRS, Salem, Tamil Nadu.

17. MEMBER OF PROJECT REVIEW COMMITTEES (4)

- i. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Technology Propagation and Development of Micro Enterprises by Self Help Group Women” Department of MBA, Kalasalingam University, Krishnankoil - 626 190, Tamil Nadu.

- ii. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Empowerment of rural women by promoting the adoption of appropriate sericulture technologies in Chittoor District of Andhra Pradesh” by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP (November 2016-October 2018).
- iii. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Empowerment of women through silk and cocoon-based handicrafts (Wealth from sericulture waste) by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP (April 2019 -March 2021).
- iv. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Development of women entrepreneurs in different sericulture sectors: Available technological strategies to develop a cluster-scale sustainable training for women empowerment in and around Virudhunagar district. Kalasalingam Academy of Research and Education. Anand Nagar –Krishnankoil-626126.

18. NUMBER OF PROJECTS EVALUATED (6)

- i. Evaluated the project proposal entitled Women Empowerment through Silkworm Culture in Tribal Dominated Mayurbhanj District of Odisha from Mayurbhanj Biological Research, Odisha submitted to the Department of Scientific & Industrial Research (DSIR), Ministry of Science & Technology, GOI, New Delhi – 110 016.
- ii. “Empowerment of rural women by promoting the adoption of appropriate sericulture technologies in Chittoor (Dist.) of Andhra Pradesh” by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP. Sponsored by Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi.
- iii. “Empowerment of women through silk and cocoon-based handicrafts (Wealth from sericulture waste) by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP. Sponsored by Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi.
- iv. “Empowerment of women through silk and cocoon-based handicrafts (Wealth from sericulture waste) by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP. Sponsored by Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi.
- v. Entrepreneurship development for farm and rural women through sericulture value addition technologies" submitted by M/s. Forest College and Research Institute, Tamil Nadu Agricultural University, Mettupalayam 641 301 TN. Sponsored by Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India, New Delhi.

- vi. Development of women entrepreneurs in different sericulture sectors: Available technological strategies to develop a cluster-scale sustainable training for women empowerment in and around Virudhunagar district. Kalasalingam Academy of Research and Education, Krishnankoil-626126, TN. Sponsored by Department of Scientific and Industrial Research, Ministry of Science and Technology, Govt. of India, New Delhi.

19. MEMBER OF TECHNICAL ADVISORY COMMITTEE (1)

- i. Expert member of Technical Advisory committee (TAC), **Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi under “Technology Development and Utilization Programme for Women” (TDUPW) from November 2017 to March 2020.

20. RESEARCH SUPERVISION AS GUIDE OF PH.D., SCHOLARS (4)

Guiding 4 numbers of Ph.D., scholars in the subject of “SERICULTURE” under Periyar University, Salem – 636 011, Tamil Nadu, India. The research titles are:

1. Studies on identification of new foundation crosses and double hybrids of bivoltine silkworm *Bombyx mori* L. under semi temperate conditions of Nilgiris.
2. Studies on diversity of natural enemies in relation to the incidence of major pests of mulberry in Tamil Nadu, conservation and feasibility of their utilization in bio-control measures.
3. Impact of adoption of bivoltine sericulture technologies and techno economic analysis in southern districts of Tamil Nadu.
4. Evaluation of different eco-races of eri silkworm, *Samia cynthia ricini* Boisduval on primary and secondary host plants for the development of ericulture in Tamil Nadu.

21. PATENTS (4)

1. **“SERITORCH”** for cleaning and disinfection (heat sterilization) in sericulture. Patented (No.: PAT/4.4.90.2/02048/2003-NRDC, Chennai, India).
2. **WATER JETTING SYSTEM** for eco-friendly management of papaya mealybug and other sucking pests in mulberry (NRDC, Reference Number: IPR/FA/13023/ 2013).
3. **LOW-COST PROTEIN RICH ANIMAL FEED FROM SILKWORM PUPAE WASTE”** Patent application number: 202141058753, dated 16.12.2021.
4. **PUPAE OIL BASED SOAP FOR FIRE INDUSTRY WORKERS** Application No.202541050203 A, Date of filing of Application :26/05/2025, Publication Date: 20/06/2025

22. INNOVATIONS MADE (4)

1. **“SERITORCH”** for cleaning and disinfection (heat sterilization) in sericulture.
2. **“ERI-PICKLE”**: A novel condiment for value addition to Eri pupae.
3. **“FIELD BIO-CAGE”** for mass multiplication of parasitoids of papaya mealybug and other natural enemies under field condition.
4. **“THERMAL WEEDER”** for mulberry garden.

23. TECHNOLOGIES DEVELOPED / STANDARDIZED (10)

1. **IPM strategies for spiralling whitefly, *Aleurodicus dispersus* Russell infesting mulberry.**
2. **IPM strategies for papaya mealybug, *Paracoccus marginatus* Williams and Granara de Willink infesting mulberry (*Technical Bulletin published*).**
3. Water jetting system for **eco-friendly management of papaya mealybug** and other sucking pests in mulberry.(Patented)
4. **Organic Farming Strategies for mulberry garden:** Eco friendly soil health management, pest & weed management practices (*Technical Bulletin published*).
5. **“Thermal weeding in mulberry garden”** an eco-friendly weed management technology and to overcome the problem of scarcity of agriculture labours.
6. **“Black polythene mulching in mulberry garden and nursery”** for weed management cum soil moisture conservation.
7. Appropriate **mulberry cultivation technique** for deep rooting and **drought tolerance**.
8. **“Fogging system”** for silkworm rearing shed for **microclimate management** during summer
9. Technology for **large scale rearing of Eri silkworm** on cassava and commercial production of eri silk.
10. Technology for **large scale production of Eri silkworm eggs**.

24. PUBLICATIONS (271)

SCIENTIFIC ARTICLES	JOURNALS	National	48
		International	36
	Symposiums/ Conferences	National	54
		International	35
SUB- TOTAL			173
BOOKS			07
BOOK CHAPTERS			20
TECHNICAL BULLETINS			05
PAMPHLETS			01
POPULAR ARTICLES			65
GRANDTOTAL			271

25. HONOURS AND AWARDS RECEIVED (30)

1. Appreciation for **very good performance in Grainage Extension Center**, Central Silk Board, Palacode, TN (1999- 2001), by National Silkworm Seed Organization, Central Silk Board, Bangalore. (No.CSB/NSSP/DO-GEC/TS/2001-02/932, Dated 07/06/2001).
2. Certificate of merit for **meritorious efforts on the promotion of Bivoltine Sericulture** in Salem cluster, Tamil Nadu (2001-2006), by Department of Sericulture, Government of Tamil Nadu, dated 06/10/2010.

3. **Best article award** from Department of Sericulture, Govt. of Tamil Nadu for **“Water jetting in mulberry garden for control of papaya mealybug”** published in the Departmental Tamil magazine “Pattu Malar.” Dated 28/02/2011.
4. **YOUNG ACHIEVERS AWARD** by “Society for the Advancement of Human and Nature” (SADHNA), DR YS Parmar University of Horticulture and Forestry, Nauni, Solan – 173 230, Himachal Pradesh, India for outstanding contribution in the field of farming/agriculture, dated 18/06/2011.
5. Received **“Best Regional Extension Center award”** for Research Extension Centre, Central Silk Board, Srivilliputtur, TN, from Department of Sericulture, Government of Tamil Nadu on 18-12-2011, for outstanding contribution in transfer of sericulture technologies to the farmers of Tamil Nadu.
6. **Best presentation award for the research article** “Bioefficacy of neem derivatives and their synergism with FORS against mulberry thrips *Pseudodendrothrips mori* Niwa (Thripidae: Thysanoptera)” in National Workshop on Promotion of Sericulture for Sustainable Income, organized by Faculty of Agriculture, Department of Entomology, Annamalai University, Chidambaram, Tamil Nadu, held on 17 & 18/03/2012.
7. **Award for “Eco-friendly Technology Innovation** for the Management of Papaya Mealybug” by Department of Sericulture, Government of Tamil Nadu, India on 14th April 2012.
8. Award for **outstanding contribution to the “Classical Biological Control of Papaya Mealybug Infesting Mulberry in India”** by National Bureau of Agriculturally Important Insects, Indian Council of Agricultural Research (NBAIL, ICAR), Bangalore, India on 20th October 2012.
9. **Appreciation for significant contribution in the successful management of papaya mealybug** (*Paracoccus marginatus*), an introduced pest of mulberry through classical biological control in South India by Central Sericultural Research and Training Institute, Central Silk Board, Ministry of Textiles, Government of India, Mysore, India on 4th January 2013.
10. **Appreciation for large scale field testing of L14 X CSR2 silkworm hybrid** in Tamil Nadu by Central Sericultural Research and Training Institute, Central Silk Board, Ministry of Textiles, Government of India, Mysore, India on 27th March 2013.
11. **Letter of Appreciation** from “Dr. B. B. Bindroo, Director, Central Sericultural Research and Training Institute, Mysore, dated 30/06/2014” for appreciable support, dedicated service, contribution and commendable achievements for acquiring grade **“Outstanding”** honoured by the Central Silk Board for the year 2013-14 to the Institute.
12. Awarded **“Life Fellow of The Entomological Society of India” (FESI)**, IARI, New Delhi on 31st December 2014
13. Awarded **“Fellow of the Society for Biocontrol Advancement” (FSBA)**, National Bureau of Agriculture Insect Resources, Bangalore, India on 29th October 2014.

14. Letter of Appreciation from “Dr. V. Sivaprasad, Director, Central Sericultural Research and Training Institute, Mysore, for significant **contribution in promoting Bivoltine Sericulture** under Cluster Promotion Programme during 2014-15 implemented jointly by Central Silk Board and Department of Sericulture, Tamil Nadu.
15. **Best Poster Presentation Award** in the National Meeting on New/Safer Molecules and Biocontrol Technologies for Integrated Pest Management in Crops. Organized by Society for Biocontrol Advancement, ICAR, NBAIR, Bengaluru on 23rd February 2015.
16. **Best Oral Presentation Award** in “1st Farm Innovation Congress, 2018” and National Conference on “Innovative Farming for Food and Livelihood Security in Changing Climate” jointly organized by Innovative Farming, Society for Advancement of Agricultural Innovations and Bidhan Chandra Krishi Viswavidyalaya, Kalyani, West Bengal on 12-13th January, 2018.
17. **“Dr. B. Vasantharaj David Award – 2018”** by Applied Zoologists Research Association (AZRA), Bhubaneswar, Odhisa for original research contributions in plant protection.
18. Prestigious IRDP award: **Srinivasa Ramanujan Life Time Achievement National Award** for Innovations in Research by Innovative Research Developers and Publishers (IRDP), 2/5- Krishna Industrial Estate, Mettukuppam, Vanagaram, Chennai – 600095.
19. Award of **“Scientist of the Year – 2018”** by The Society of Tropical Agriculture, New Delhi, India in IJTA 7th International Conference on Agriculture, Horticulture and Plant Sciences held at Hotel Landmark, The Mall, Shimla (H.P.) on 28th & 29th June 2018.
20. **Life Time Achievement Award** for meritorious contribution to the science of Sericulture and Economic Entomology, Navsari Agricultural University, Navsari, Gujarat on 22.01.2019.
21. **Research Excellence Award** by Jayoti Vidyapeeth Women’s University, Jaipur in “National Conference on Organic Farming, Food Processing & Biotechnological Approaches for Livelihood Generation (OFLG-2019) on 6-8th February 2019.
22. **Outstanding Scientist Award 2019** by The Society of Tropical Agriculture, New Delhi, India in IJTA 9th International Conference on Agriculture, Horticulture and Plant Sciences held at Angel’s Inn Resort, Dharamshala (H.P.) on 27th & 28th June 2018.
23. Awarded **“Fellow of the Society for Biotic and Environmental Research” Tripura, India** in Biotic Science Congress – 2019 (BioSCon, 19) held at Sona College of Arts & Science, Salem, Tamil Nadu on 26th & 27th July 2019.
24. **Certificate of Appreciation** from Dr R.S. Teotia, Director, Central Sericultural Research & Training Institute, Central Silk Board, Mysore for outstanding contribution in bringing out publication of comprehensive technical bulletin entitled “Mulberry Pests: Current Status & Management Practices” in the Biotic Science Congress – 2019 held at Sona College of Arts & Science, Salem, Tamil Nadu on 26th & 27th July 2019.

25. **Outstanding Contribution to Science Award – 2019** for Commendable Contribution to Sericulture – Innovations, Technologies and Pest Management by Dr B. Vasantharaj David Foundation, Chennai-600125, TN on 17th November, 2019.
26. **Lifetime Achievement Award** by Society for Biotic & Environmental Research, Tripura India during Biotic Science Congress, 2019 held on 26 & 27th July 2019 at Salem, TN, India.
27. **Distinguished Scientist Award** by Agro Environmental Development Society (AEDS), Rampur, Uttar Pradesh – 244 922 on the occasion of International Web Conference on “New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development” held on 21-22nd June 2020.
28. **Distinguished Scientist Award** from Society for Scientific Development in Agriculture Technology, Meerut, UP on 15th December 2021.
29. **Awarded Fellow of The Society of Tropical Agriculture**, New Delhi on 30th December 2021.
30. **Appreciation Certificate** dated 16.03.2023 from The Director, **Directorate of Sericulture, Government of Mizoram** for excellent coordination with State Sericulture Department and outstanding contribution for development of sericulture in the state of Mizoram during the years 2021 – 2023.

26. CONFERENCES ORGANIZED (03)

1. Organized **Biotic Science Congress -2019**: National Conference on “Challenges and Innovative Approaches in Agriculture and Allied Sciences Research” on 26th & 27th July 2019 at Sona College of Arts & Science, Salem. Acted as **Organizing Secretary** of the conference.
2. Organized **International Conference on “Challenges in Biological Sciences” (ChaBio2K19)** at NKR Government Arts College for Women, Namakkal -637 001, Tamil Nadu, India on 29th & 30th August 2019. Acted as **Co-organizing Secretary** of the conference.
3. Organized **“Soil Scientist Meet – 2026”** on the theme Soil Health for Silk: Strategies for Sustainable Sericulture as well as World Environment Day – 2026 by Central Sericultural Research and Training Institute (CSRTI), Central Silk Board, Pampore – 192 121 at NIFT, Srinagar, J&K on 05.06.2026.

27. CONFERENCES/ SYMPOSIUMS / WORKSHOPS ATTENDED (36)

National (23)

- 1) National Symposium on **“Recent Trends in Applied Biology”** at Avinashilingam Deemed University, Coimbatore on 28th & 29th January, 2004. Jointly organized with Regional Sericultural Research Station, Central Silk Board, Salem 636 003.
- 2) National seminar on **“Modern Trends in Microbiology, Genetics and Biotechnology Research- 2010”** organized by Department of Microbiology and Genetics, Ayya Nadar

Janaki Ammal College, Sivakasi – 626124, Tamil Nadu on 17th – 18th February, 2010, Sponsored by CSIR, New Delhi.

- 3) National Conference on **“Sericulture Innovations – Before and Beyond”** organized by Central Sericultural Research and Training Institute, Mysore, on 28th – 29th January, 2011.
- 4) Workshop on **“Entrepreneurship in Sericulture”** jointly organized by Department of Zoology, Vivekanandha College for Women, Tiruchengode and Regional Sericultural Research Station, Central Silk Board, Salem on 08/03/2011.
- 5) National Conference on **“Frontier Areas in Applied Zoology”**, (UGC sponsored) Department of Zoology, Ayya Nadar Janaki Ammal College, Sivakasi – 626124, Tamil Nadu on 15th – 17th March, 2012.
- 6) National workshop on **“Promotion of Sericulture for Sustainable Income”**. Jointly organized by Faculty of Agriculture, Department of Entomology, Annamalai University, Chidambaram and Regional Sericultural Research Station, Central Silk Board, Salem – 636 003, Tamil Nadu, held on 17 & 18/03/2012.
- 7) Workshop on **“Sericulture”** organized by Department of Business Administration, Kalasalingam University, Krishnankovil – 626190, Tamil Nadu, on 11/04/2012 (Attended as chief guest).
- 8) National conference on **“Sericulture for Livelihood Security”** Organized by College of Sericulture, Chintamani, Karnataka, 29th to 31st January 2014.
- 9) National Meeting on **New / Safer molecules and Biocontrol Technologies for Integrated Pest Management in Crops**. Organized by Society for Biocontrol Advancement, ICAR-NBAIR, Bengaluru on 23rd February 2015.
- 10) National seminar on **“Bio-entrepreneurship”** organized by department of Botany, Holy Cross College (Autonomous), Tiruchirappalli – 620 002, Tamil Nadu on 12/02/2016.
- 11) **1st Farm Innovation Congress, 2018** and National Conference on **“Innovative Farming for Food and Livelihood Security in Changing Climate”** Organized by **“Innovative Farming & Society for Advancement of Agricultural Innovations (SAAI)”** 12-13th January, 2018 @ FACC, BCKV, Kalyani, West Bengal.
- 12) Conference on **“Recent Trends in Pesticide Development and Registration”**, 7th & 8th September 2018, Venue- Raintree, Chennai, India, Organized by International Institute of Biotechnology and Toxicology (IIBAT), Padappai, Kancheepuram District, Chennai 601 301, Tamil Nadu India.
- 13) National conference on **ECOSYSTEM CONSERVATION AND SUSTAINABLE Development (ECOCASD - 2018)** Organized by AET Institutions, Doddakannelli, Bangalore-560035 on 06 to 8th September 2018.
- 14) **National Workshop on Sericulture** organized by PG & Research Department of Zoology, NKR Government Arts College for Women, Namakkal – 637001 on 8th & 9th October 2018.

- 15) National Seminar on **Climate Change: Environmental Monitoring and Management for Building Climate Resilience**, organized by Environmental Management and Policy Research Institute (EMPRI), Bangalore – 560078 on 24th & 25th January 2019.
- 16) National Conference on **“Challenges and Innovative Approaches in Agriculture and Allied Sciences Research**, organized by Society for Biotic and Environmental Research, Tripura at Salem, TN on 27 & 28th July 2019.
- 17) National Conference on **“Sericulture Based Multi-Disciplinary Approaches for Climate Resilience, Sustainability and Livelihood Security”** organized by University of Agricultural Sciences, Bangalore & College of Sericulture, Chintamani on 26 & 27th August 2022 at Chintamani, Karnataka.
- 18) National conference on **"Recent Advances in Agricultural and Industrial Entomology and Environmental Sciences and their Impact on Food and Environmental Security"** organized by Entomology Research Institute, Loyola College, Chennai & Dr B. Vasantharaj David Foundation, Chennai on 29-30th September 2023.
- 19) **National Industry Meet “Seri-Setu”** – Sericulture Stakeholders Engagement for Technology Upgradation on 20th February 2026 at Bangalore by Central Silk Board, Government of India, Bangalore – 560 068.
- 20) **Pashmina Ladakh Conclave – 2026** organized by UT Administration of Ladakh at Leh on 24 & 25th February 2026
- 21) National Seminar on **“Seri Genetic Resources Conservation: Challenges, Innovations and Future Pathways”**, organized by Central Sericultural Germplasm Resources Centre, Central Silk Board, Hosur – 635 109, Tamil Nadu on 6th March 2026.
- 22) **Entrepreneurship Development Programme (EDP) on Sericulture and Silk Value Chain**, at Noida, UP on 13.03.2026 organized by Central Silk Board, Government of India, Bangalore – 560 068.
- 23) Entomologists Meet **“EntoNext – 2026”: Eco-Smart Entomology for Sustainable Sericulture: Innovate, Protect and Prosper**. Organized by Central Sericultural Research and Training Institute, Central Silk Board, Mysore on 30.06.2026

International (13)

- 1) **2rd Biopesticide International Conference (BIOCICON 2009)** organized by Crop Protection Research Centre, Department of Advanced Zoology and Biotechnology, St. Xavier’s College, Palayamkottai – 627 002 on 26 – 28 November, 2009. Sponsored by CSIR, INSA, MOE’S, UGC, TNSCST and NCSTC.
- 2) International symposium o **“Insect Pest Management”**, organized by Entomology Research Unit, St. Xavier’s College, Palayamkottai 627 002 on 23rd – 25th February, 2011.
- 3) **3rd Biopesticide International Conference (BIOCICON 2011)** Jointly organized by Crop Protection Research Centre, Department of Advanced Zoology and Biotechnology, St. Xavier’s College, Palayamkottai – 627 002 & Centre for Plant Protection Studies, TNAU,

Coimbatore on 28-30, November,2011. Sponsored by CSIR, DST, ICMR, UGC, New Delhi and TNSCST, Tamil Nadu.

- 4) **4th Biopesticide International Conference (BIOCICON 2011)** organized by Crop Protection Research Centre, Department of Advanced Zoology and Biotechnology, St. Xavier's College, Palayamkottai – 627 002 on 28-30, November,2013. Sponsored by TWAS, Italy, CSIR, DST, UGC, DRDO, MEF, INSA, New Delhi and TNSCST, Tamil Nadu.
- 5) **XVI AZRA International Conference on "Applied Zoological Research for Sustainable Agriculture and Food Security"** jointly organized by Applied Zoologists Research Association (AZRA), Bhubaneswar, Odhisa and Department of Entomology & Agricultural Zoology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, India on 9-11 February, 2018 at Banaras Hindu University, Varanasi.
- 6) **7th International Conference on Agriculture, Horticulture and Plant Sciences (ICAHPS-2018)** to be held at Hotel Landmark, Shimla (Himachal Pradesh) on 28-29 June 2018. Organized by The Society of Tropical Agriculture, New Delhi – 110002.
- 7) **International Conference on "Optimum Crop Planning for Resource Use Efficiency"** organized by Department of Economics, Sri Sarada College for Women, Salem – 636016, Tamil Nadu, India on 14th August 2018.
- 8) **First International Conference on Biocontrol: Approaches & Applications (ICBC – 2018).** Society for Biocontrol Advancement, NBAIR, Bangalore, India, Hotel Le Meridien, Bangalore on 27th -29th September 2019.
- 9) **6th Biopesticide International Conference (BIOCICON – 2019) on Ecofriendly Pest Management for Food Production.** 6th – 8th March 2019 at Amity University, Raipur. Organized by Amity Institute of Biotechnology, Raipur, Chhattisgarh and Department of Zoology, St. Xavier's College, Palayamkottai, Tamil Nadu, India.
- 10) **International Conference on Challenges in Biological Sciences (CHABIO2K19).** Organized by PG & Research Department of Zoology, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal-637 001, Tamil Nadu, India on 29th & 30th August 2019.
- 11) **International web conference on "New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development"** (NTAEBSID-2020) Agro Environmental Development Society (AEDS), Rampur, U.P. on 21-22 June 2020.
- 12) **International web conference on "Innovative Technologies, Entrepreneurship Avenues, Livelihood Enhancement in Sustainable Management of Animal Farming"** organized by PG and Research Department of Zoology, Dr. Ambedkar Government Arts College (Autonomous) Vysarpadi, Chennai- 600039, TN in collaboration with Indian Science Congress Association on 03.08.2020.
- 13) **International Conference on "Recent Development in Frontiers of Biological Science"** organized by PG & Research Department of Zoology, Namakkal Kavignar Ramalingam Government Arts College for Women, Namakkal, Tamil Nadu on 22.09.2023.

28. LEAD TALKS (10)

1. **Sakthivel, N. (2018) Need based innovative technologies for leveraging mulberry silk production in India.** Lead Paper in: XVI AZRA International Conference on "Applied Zoological Research for Sustainable Agriculture and Food Security" jointly organized by Applied Zoologists Research Association (AZRA), Bhubaneswar, Odhisa and Department of Entomology & Agricultural Zoology, Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221005, India on 9-11 February, 2018 at Banaras Hindu University, Varanasi.
2. **Sakthivel, N. (2018) Ecofriendly approaches in mulberry farming.** Lead paper presented in "National Conference on Ecosystem Conservation and Sustainable Development (ECOCASD - 2018)", 27th to 29th November' 2018, Organized by AET Institutions, Doddakannelli Bangalore -560035.
3. **Sakthivel, N. (2019) Indian Sericulture Industry: An Overview.** Lead paper presented in International Conference on "Frontier Research in Applied Zoology and Insect Pest Management Strategies: A way Forward for Food and Nutritional Security" in collaboration with Applied Zoologists Research Association (AZRA), Bhubaneswar, Odisha from 12th to 14th February, 2020 at UAS, Raichur.
4. **Sakthivel, N. (2019) Advancements in Sericulture Technologies.** International Conference on Challenges in Biological Sciences. 29th & 30th August 2019, PG & Research Department of Zoology, NKR Government Arts College for Women, Namakkal – 637 001, TN.
5. **Sakthivel, N. (2020) Sericulture: Global and Indian Scenario.** Lead paper presented in the international web conference on "New Trends in Agriculture, Environmental & Biological Sciences for Inclusive Development" (NTAEBSID-2020) Agro Environmental Development Society (AEDS), Rampur, U.P. on 21-22 June 2020. Pp. 215-222.
6. **Sakthivel, N. (2020) Entrepreneurial Opportunities in Sericulture.** A lead talk presented in the international web conference on Innovative Technologies, Entrepreneurship Avenues, Livelihood Enhancement in Sustainable Management of Animal Farming organized by PG and Research Department of Zoology, Dr. Ambedkar Government Arts College (Autonomous) Vysarpadi, Chennai- 600039, TN in collaboration with Indian Science Congress Association on 03.08.2020.
7. **Sakthivel, N. (2020) Entrepreneurial Opportunities in Sericulture.** A lead talk presented in Sarada College, Salem, Tamil Nadu on 09.03.2020.
8. **Sakthivel, N. (2023) Climate Change Resilience in Sericulture.** A lead talk presented in National Conference on Sericulture Based Multi Disciplinary Approaches for Climate Resilience, Sustainability and Livelihood Security, organized by University of Agricultural Sciences, Bangalore & College of Sericulture, Chintamani on 26 & 27th August 2023 at Chintamani.
9. **Sakthivel, N. (2023) Climate Change Resilience in Sericulture.** *Lead paper* presented in the International Conference on "Recent Development in Frontiers of Biological Science" organized by PG & Research Department of Zoology, Namakkal Kavignar

Ramalingam Government Arts College for Women, Namakkal, Tamil Nadu on 22.09.2023.

10. 2. **Sakthivel, N. (2023) Organic Farming: Present Status and Future Scope in Mulberry Leaf Production.** *Lead paper* presented in the National conference on "Recent Advances in Agricultural and Industrial Entomology and Environmental Sciences and their Impact on Food and Environmental Security" organized by Entomology Research Institute, Loyola College, Chennai & Dr B. Vasantharaj David Foundation, Chennai on 29-30th September 2023.

29. GUEST LECTURES (25)

1. Presented a talk on **“Eri Pattupuzhu (Eri Silkworm)** in Tamil, in All India Radio (AIR), Tiruchirappalli, Tamil Nadu on 30/09/2004.
2. Guest lecture on **“Current status and latest developments on moriculture and sericulture”** at Agriculture College and Research Institute, Tamil Nadu Agricultural University, Madurai, India on 08-11-2011.
3. Guest lecture on **“Sericulture”** at J.K.K. Nattraja College of Arts & Science, Komarapalayam – 638 183, Namakkal (District), Tamil Nadu on 23-01-2012.
4. Chief Guest for “Workshop on Sericulture” organized by Kalasalingam University, Krishnankovil – 626190, Tamil Nadu and delivered lecture on Sericulture to the Engineering students on 11.04.2012.
5. Guest lecture on **“Recent Advancements in Sericulture”** at Ayyanadar Janaki Ammal College, Sivakasi-626124, Tamil Nadu on 30/03/2012.
6. Guest Lecture on **“Recent Advances in Sericulture”** at Ayya Nadar Janaki Ammal College, Sivakasi- 626 124, Tamil Nadu on 21/01/2015.
7. Guest Lecture on **“Applied Entomology”** in UGC Students Seminar on Applied Entomology organized by Sri Sarada College for Women (Autonomous), Salem – 636 016, Tamil Nadu, India on 07/02/2015.
8. Attended as chief guest and delivered a guest lecture on **“Trends in Science and Technology and Intellectual Property Rights”** in “National Science Day 2015” organized by Department of Biotechnology, P.S.R. Engineering College, Sivakasi – 626 140, India on 27/02/2015.
9. Guest Lecture on **“Entrepreneurial opportunities in sericulture industry”** at Holy Cross College (Autonomous), Tiruchirappalli – 620 002, Tamil Nadu on 12/02/2016.
10. Guest Lecture on **“Entrepreneurship opportunities in sericulture” & training on “Unified Payment Interface (UPI) app”** at Shri Sakthikailash Women’s College, Salem – 636 003, Tamil Nadu on 02.02.2017.
11. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp organized by Entrepreneurship Development Cell, JKK Nattraja College of Engineering & Technology, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 03.02.2017.

12. Guest Lecture on **“Entrepreneurship opportunities in sericulture” & training on “Unified Payment Interface (UPI) for cashless transactions”** at Government Arts College, Salem – 636 007 Tamil Nadu on 06.02.2017.
13. Guest Lecture on **“Entrepreneurship opportunities in sericulture” & training on “Unified Payment Interface (UPI) app”** Sri Sarada College for Women, Salem – 636 016 Tamil Nadu on 08.02.2017.
14. Guest Lecture on **“Entrepreneurship opportunities in sericulture” & training on “Unified Payment Interface (UPI) app”** Government College for Women, Salem – 636 008 Tamil Nadu on 21.02.2017.
15. Guest Lecture on **“Entrepreneurship opportunities in sericulture” & training on “Unified Payment Interface (UPI) app to go for cashless transactions”** at Vysya College, Salem – 636 103 Tamil Nadu on 03.03.2017.
16. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp at JKK Nataraja College of Arts & Science, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 19/06/2017.
17. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp at JKK Nataraja College of Arts and Science, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 30/06/2017.
18. Guest lecture on **sericulture** at Kavitha’s College of Arts and Science, Vaiyappamalai (PO), Namakkal – 637410, Tamil Nadu on the occasion of Zoology Department Association Inauguration on 11/08/2017.
19. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Programme at Government Arts College, Karur – 639005, Tamil Nadu on 08/08/2018.
20. Lectures on Sericulture in Science Academies’ Refresher Course on **“Insect Bio-Resource and Human Welfare”** organized by Department of Zoology, St. Xavier’s College, Palayamkottai 627002, Tamil Nadu on 26th & 27th August 2018.
21. Guest lecture on **“Entrepreneurship opportunities in sericulture”** on Sericulture Awareness Programme organized by Post Graduate Department of Economics, Government Arts College for Women, Salem – 636008, Tamil Nadu on 31.08.2018.
22. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp (EAC) at JKK Nataraja College Pharmacy, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 26/09/2018.
23. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp (EAC) at JKK Nataraja College of Arts and Science, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 09/01/2019.
24. Guest lecture on **“Entrepreneurship opportunities in sericulture”** in Entrepreneurship Awareness Camp (EAC) at JKK Nataraja College of Arts and Science, Komarapalayam – 638 183, Namakkal District, Tamil Nadu on 09/01/2019.

25. Guest Lecture on “**Entrepreneurial Opportunities in Sericulture**” at ESSPC Hosur to the Govt. Arts College, Hosur Botany Internship Students on 26.07.2024.

30. TRAINING UNDERGONE (21)

1. **Intensive Bivoltine Training** at Central Sericultural Research & Training Institute, Mysore. One month (01-03-2002 to 04-04-2002).
2. Trainers Training Programme on **Training Management** at University of Agricultural Sciences, Dharwad, Karnataka. Six days (19-08-2002 to 24-08-2002).
3. Workshop on “**Intellectual Property Rights and Patenting in Sericulture**” organized by Central Sericultural Research & Training Institute, Mysore on 25th & 28th August 2003.
4. Training on “**Bio-technology and Bio-informatics**” in sericulture organized by Central Sericultural Research & Training Institute, Mysore on 29th & 30th August 2003.
5. Trainers Training Programme on **Ericulture** at NAARM, Hyderabad organized by Central Silk Board for ten days from 7th to 16th October 2003.
6. Training on **Detection & Identification of Pebrine Spores** at Silkworm Seed Technology Laboratory, Kodathi, Karnataka, Three days (08-07-2004 to 09-07-2004)
7. Training on **soil analysis** at Central Sericultural Research & Training Institute, Mysore. Six days (20-02-2006 to 25-02-2006).
8. Training on “**Demonstration on management of foliar disease and soil borne disease of mulberry**” at Central Sericultural Research & Training Institute, Mysore on 07/08/2007
9. Training on “**Leveraging Innovation for Knowledge Economy**” (Innovate India 2009) organized by National Research Development Corporation, Bengaluru – 560 055 on 19th & 20th November 2009.
10. **Mass production of papaya mealybug parasitoids**, National Bureau of Agriculturally Important Insects (NBAII), ICAR, Bangalore. Two days (28-10-2010 to 29-10-2010).
11. Workshop on “**Bioinformatics and its Applications**” organized by Central Sericultural Research and Training Institute, Central Silk Board, Government of India, Mysore – 570 008, from 29th & 30th November 2012.
12. Workshop on “**Dissemination of Solar Passive Building for Silkworm Rearing**” organized by Silkworm Seed Technology Laboratory, Central Silk Board, Government of India, Kodathi, Bangalore – 560 035 on 06.03.2013.
13. Training on “**Implementation of Cluster Promotion Programme**” conducted by Central Sericultural Research and Training Institute, Central Silk Board, Government of India, Mysore – 570 008, from 18/04/2013 to 20/04/2013.
14. Attended three days “**Orientation training programme**” at Central Sericultural Research and Training Institute, Central Silk Board, Government of India, Mysore – 570 008, from 22/08/2013 to 24/08/2013.

15. Training on **“URKUND: Plagiarism Detection Software for Research Supervisors”** at Periyar University, Salem, Tamil Nadu on 09/08/2016.
16. **Seed Officers & Seed Analyst training programme** on 17 & 18 December 2018 at Silkworm Seed Technology Laboratory (SSTL), Central Silk Board, Kodathi, Bangalore.
17. Workshop on **Technologies to Enhance Bivoltine Silk Production in South India** organized by Central Sericultural Research and Training Institute (CSR&TI), Mysore on 24th February 2021.
18. Online Training Programme on **“Development of Entrepreneurial Skills for Promotion of Sericulture Industry”** organized by National Institute of Agricultural Extension Management (MANAGE), Hyderabad and CSR&TI, CSB, Berhampore, WB on 27-30th September 2021.
19. **Management Development Programme** at Dr MCR HRD Institute of Telangana, Hyderabad from 17th – 21st November 2025
20. Training on **“Role Leadership Lab for Enhanced Performance, work Environment and Overall, Health & Wellness”** by 6th Sence, Bangalore and organized by Central Silk Board Bangalore on 6 & 7th May 2026.
21. Brainstorming Session on **Capacity Building and Training (CBT)** at Central Silk Board, Bangalore on 08th May 2026.

31. DETAILS OF HINDI WORKSHOPS ATTENDED (19)

1. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 10.02.2010.
2. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 23.02.2012.
3. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 26.03.2014.
4. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 29.02.2016.
5. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 20.01.2017.
6. Hindi Workshop organized by Regional Sericultural Research Station, Central Silk Board, Government of India, Salem – 636017, Tamil Nadu on 21.09.2017.
7. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 30.06.2023.
8. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 12.09.2023.
9. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 15.12.2023.
10. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 20.03.2024.

11. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 22.06.2024.
12. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 04.09.2024.
13. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 13.12.2024.
14. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 17.03.2025.
15. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 27.06.2025.
16. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 27.09.2025.
17. Hindi Workshop organized by Central Sericultural Germplasm Resources Centre (CSGRC), Central Silk Board, GOI, Hosur – 635 109 on 29.12.2025.
18. Hindi Workshop organized by Central Sericultural Research & Training Institute Central Silk Board, GOI, Pampore – 192 121 on 27.03.2026.
19. Hindi Workshop organized by Central Sericultural Research & Training Institute Central Silk Board, GOI, Pampore – 192 121 on 29.06.2026.

32. TRAINING IMPARTED (10+)

- i. **Faculty Development programme** for formulation of new projects at JKK Nataraja College of Arts and Science, Komarapalayam, Tamil Nadu on 28.07.2014.
- ii. Science Academies **Refresher Course on “Insect Bio-resources and Human Welfare”** from 18th – 31st August 2018 at St. Xavier’s College (Autonomous), Palayamkottai – 627002, Tamil Nadu.
- iii. Organizing Chairman of 21 Days National Training Course on **“Technology Interventions Towards Transformation Agriculture, Sericulture, Animal Husbandry and Allied Sectors into Sustainable Enterprises for Atmanirbhar Bharat”** organized by Central Sericultural Research & Training Institute (CSRTI), Mysuru, Karnataka, Agro Environmental Development Society (AEDS), UP and Pondicherry Institute of Agricultural Sciences, Puducherry during 11-31 October, 2020 and imparted training on Sericulture Entrepreneurship.
- iv. Course Coordinator of 21 days National Training Course NTC on **“Entrepreneurship Strategies in Agriculture, Horticulture, Animal Husbandry & Allied Sectors for Economic Development of India”** organized by Directorate of Extension Education, Uttar Banga Krishi Vishwavidyalaya, Pundibari, West Bengal & Agro Environmental Development Society, Rampur, UP, by virtual mode during 01-21 December 2021 and imparted training on Sericulture Entrepreneurship.
- v. Patron of 21 Days International Training cum Certificate Course (ITCC) on **“Technology Innovation in Agriculture, Horticulture, Animal Husbandry, Fisheries, Sericulture and Allied Sectors for Sustainable Entrepreneurship”**. Organized by College of

Horticulture and Forestry, Central Agricultural University, Pasighat, Arunachal Pradesh, Agro Environmental Development Society, Rampur, UP, Tribhuvan University, Kathmandu, Nepal and University of Debrecen, Hungary via virtual mode during 16th June 2023 to 06th July 2023. Imparted training on Entrepreneurship in Sericulture.

- vi. Co- Convener of 21 Days National Training Cum Refresher Course on “**Approaches of Successful Entrepreneurship in Agriculture, Sericulture, Fisheries, Animal Husbandry & Allied Sectors**” organized by Central Tasar Research and Training Institute Central Silk Board, Govt. of India, Ranchi, Jharkhand and Agro Environmental Development Society (AEDS) Majhra Ghat, Rampur, U.P, India during January 01-21, 2024.
- vii. Imparted training on “**Organic Farming in Mulberry**” in 21 days National Online Training Programme of College of Sericulture, Chintamani & AEDS, Rampur during 1-21 Jan 2025.
- viii. Imparted training to total number of 752 new sericulture farmers of Tamil Nadu state in **20 batches** at Sericulture Training Institute, Department of Sericulture, Govt. of Tamil Nadu during the year 2023 – 2024.
- ix. Imparted training to total number of 1016 new sericulture farmers of Tamil Nadu state in 37 batches at Sericulture Training Institute, Department of Sericulture, Govt. of Tamil Nadu during the year 2024 – 2025.
- x. Imparted training to 50 farmers on “Eri Silkworm Rearing Technologies” at Eri Silkworm Seed Production Centre, Hosur in two batches during 2024 – 2025.

33. MEMBERSHIPS IN VARIOUS SCIENTIFIC SOCIETIES / ORGANIZATIONS (29)

- 1. Volunteer expert (Entomology) of **International Sericultural Commission**, Central Silk Board Complex, Bangalore – 560 068, India.
- 2. Life member of “**National Academy of Biological Sciences (NABS)**”, Chennai – 600 096, Tamil Nadu.
- 3. Member of “**International Association of Scientific Innovations and Research**” (IASIR), Georgia, United Nations.
- 4. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Technology Propagation and Development of Micro Enterprises by Self Help Group Women” Department of MBA, Kalasalingam University, Krishnankoil 626 190, Tamil Nadu.
- 5. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Empowerment of rural women by promoting the adoption of appropriate sericulture technologies in Chittoor District of Andhra Pradesh” by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP (November 2016-October 2018).

6. Expert member of Technical Advisory committee (TAC), **Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, Government of India, New Delhi under “Technology Development and Utilization Programme for Women” (TDUPW) from November 2017 to March 2020.
7. Member of **project review committee (PRC) of Department of Scientific and Industrial Research (DSIR), Ministry of Science and Technology, Government of India**, New Delhi for the project “Empowerment of women through silk and cocoon-based handicrafts (Wealth from sericulture waste) by Department of Sericulture, S.P. Mahila Visvavidyalayam, Tirupati, AP (April 2019 –March 2021).
8. Member of **Board of Studies (Post Graduate-Zoology)**, Department of Advanced Zoology and Biotechnology, Ayya Nadar Janaki Ammal College, Sivakasi, Virudunagar District, Tamil Nadu for two years (2013 & 2014).
9. Member of **Board of Studies of Self Employment Course in Sericulture**, Ayya Nadar Janaki Ammal College (Autonomous), Madurai Kamaraj University, Sivakasi- 626 124, Tamil Nadu, India (2012-2013).
10. Member of **Board of studies (2007-08 & 2008-09) in Department of Applied Zoology and Biotechnology**, Erode Arts College (Bharathiar University, Coimbatore, Tamil Nadu, India).
11. **Member of Board of Studies (Sericulture)**, Department of Zoology, Government Arts College, Salem – 636007, Tamil Nadu (2017-18).
12. Honorary life member of **Society for Advancement of Human and Nature (SADHNA)**, Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan-173 230, Himachal Pradesh, India.
13. Associate editor of the journal “**Angewandten Biologie Forschung**”, CTB Science, Foundation for Promotion of Basic and Applied Science”, Bangalore.
14. Member of Editorial Advisory Board of **Research Reviews Journal of Agricultural and Allied Sciences**.
15. Member of Editorial Advisory Board (Chief Advisor) of **Research Reviews Journal of Zoological Sciences**.
16. Member of Editorial Board of **International Journal of Biology and Biological Sciences (IJBBS)**.
17. Member of Editorial Board of **International Journal of Science, Environment and Technology (IJSET)**.
18. Member of Editorial Board / Reviewer of **Journal of Biopesticides**.
19. Life member of **Society for Biocontrol Advancement**, NBAIL, Bangalore, India.
20. Life member of **Indian Journal of Sericulture**, Central Silk Board, India.
21. Life member of **Journal of Biopesticide**, India.
22. Life member of **Entomological Society of India**, IARI, New Delhi.

23. Life Member of (130/SAAI/IF/2017) **Society for Advancement of Agricultural Innovations (SAAI)**
24. Reviewer of the journal **“Innovative Farming” An International Peer Reviewed Journal of Agriculture and Allied Sciences.**
25. Life Member of Applied **Zoologists Research Association (AZRA)**, Bhubaneswar-751 019, Odisha, India.
26. Fellow of Entomological Society of India, IARI, New Delhi.
27. Fellow of Society for Biocontrol Advancement, NBAIR, Bangalore.
28. Appointed as “SEED OFFICER” (Code: TN/SO/15) by Office of the Registration Committee, National Silkworm Seed Organization, Central Silk Board, Bangalore *w.e.f.* 1st April 2018, vide letter number CSB/NSSO/Seed Act/SO/Appt. Order/2018-19 dated 17.04.2018.
29. Fellow of Society for Biotic and Environmental Research, Tripura.

BRIEF NOTES ON THE INNOVATIONS MADE

A. SERITORCH (*Patented, No.: PAT/4.4.90.2/02048/2003-NRDC, Chennai, India*)

Seritorch (Gas Flame Gun) is an LPG operated user friendly as well as eco-friendly device designed for sterilization of silkworm rearing equipments and floor of rearing house and cleaning of mountages which bears heavy pathogen load. It has high efficacy in management of silkworm diseases and hence significantly increases cocoon productivity.

B. ERI-PICKLE

Tribes in North-East zone confined to rear Eri silkworm in mainly for their domestic use of silk as well as they consume the pupae by preparing delicious food like curry, fry *etc.* Feasibility of introducing commercial Ericulture in other states where the food plants of eri silkworm like castor, tapioca *etc* are cultivated in large scale was studied during 2003-2006. Eri-pickle, a novel condiment was innovated to add market value of eri pupae for more income to the farmers in addition to the silk.

C. FIELD BIO-CAGE

A cage called “Field Bio-cage” is designed for mass multiplication of parasitoids of papaya mealybug under field condition using natural infestation of the pest and found successful. This technology is farmer’s friendly and huge number of parasitoids can be multiplied in short period involving farmers to combat the pest successfully. This cage could also be used to multiply other parasitoids and predators in field condition. Hence, this innovation strengthens the eco-friendly Biological Control Programme in sericulture as well as agriculture.

D. THERMAL WEEDER

In recent past, weeding in mulberry garden became troublesome due to scarce of agriculture labour. Further, hike in wage rates fetches heavy expenditure for weeding which curtail the profit in sericulture. A novel device “Thermal Weeder” for easy, user-friendly, eco-friendly, effective and low cost weed management in mulberry garden through flame is fabricated and tested. This device draws big demand among the farmers.

BRIEF NOTE ON THE TECHNOLOGIES DEVELOPED

1. IPM strategies for spiralling whitefly infesting mulberry

Outbreak of Spiralling whitefly, *Aleurodicus dispersus* Russell on mulberry was noticed during 2001. Therefore studies were conducted in a project mode to combat the pest. Efficacy of different pesticides was studied with special emphasis on safety to silkworms. The synergistic effect of dimethoate (0.05%) + neem oil (3%) has a good ovicidal property causing highest mortality of eggs (80.58%) as well as promising highest reduction (94.43%) in population of nymphs and adults. The safety period is 25 days. Integrated use of spray of forcible jet of water, yellow sticky traps, and the dynamic predator *Axinoscymnus puttardria* was standardized and brought out an IPM package. Project report submitted to Central Silk Board, Bangalore in August 2004.

2. IPM strategies for papaya mealybug infesting mulberry

There was sudden outbreak of papaya mealybug, *Paracoccus marginatus* Williams and Granara de Willink on number of agriculture and horticultural crops during 2009-10. This pest posed serious threat to sericulture industry by completely invading all most all mulberry gardens in Tamil Nadu. IPM strategies were standardized with eco-friendly practices viz., appropriate cultural practices, farmer's friendly technique for mass multiplication of parasitoids using innovated field bio-cages and water jetting system. A technical bulletin "Management strategies of papaya mealybug infesting mulberry" was published in January 2012.

3. Water jetting system for eco-friendly management of papaya mealybug and other sucking pests in mulberry (Applied for patent: NRDC Ref No. IPR/FA/13023/2013)

Major sucking pests of mulberry viz. pink mealybug, *Maconellicoccus hirsutus*, mulberry thrips, *Pseudodendrothrips mori*, papaya mealybug, *Paracoccus marginatus* spiralling whitefly, *Aleurodicus dispersus* etc have developed resistance to the insecticides because of their repeated applications in mulberry ecosystem and the chemical measure become futile but leaves deleterious effect to the human beings, silkworms, natural enemy complex and other beneficial organisms.

Spray of strong jet of water using a high-volume sprayer against the sucking pests is one of the components of IPM. But this practice could not become popular because fetching bulk quantity of water for jetting is cumbersome, time consuming and expensive. Hence, a simplified and user-friendly water jetting system is developed for mulberry garden in which a portion of irrigation water is diverted in order to get uninterrupted supply of adequate water for jetting. This system found highly effective against all sucking pests. It is economic, eco-friendly, promotes the population of natural enemies and helps to manage mulberry pests without any insecticides.

This technology has following merits:

- ✓ This system is suitable for large scale application and could also conveniently be adopted in agricultural and horticultural crops.
- ✓ Helps to avoid use of harmful insecticides in mulberry and agro-ecosystem, does not pollute the environment, does not cause any health hazard to the users, silkworms and other beneficial organisms and compatible with biological control programme.

- ✓ Silkworm rearing can only be taken up 15-20 days after spray of chemical insecticide in mulberry garden due to its residual toxic effect. Further, chemical measure to control pests in mulberry garden is not possible after initiation of rearing. But water jetting can be done at any moment if pest incidence is noticed *i.e.* even after initiation of silkworm rearing.
- ✓ Water jetting not only eliminates the pest population but also removes the black sooty moulds and dusts from the infested leaves (unlike insecticide applications) which increase the efficiency of photosynthetic activities and leaf quality. The silkworms prefer this dust free quality leaves, followed by resultant increase in silk productivity and income to the farmers.
- ✓ Many sericulture farmers often face mortality of silkworms due to deposit of insecticide drifts on mulberry leaves when the crops in the vicinity are sprayed. Under such condition, the farmers can spray water in the mulberry garden using this water jetting system to washout the drifts before feeding to the silkworms to avoid the toxic effect.
- ✓ Deposit of dusts on mulberry leaves during summer season is a greater issue on health of silkworms which reflects adversely on cocoon production. Water jetting a day prior to leaf harvest helps to feed dust free leaves to silkworms and to get bumper crop in summer.

Water jetting now became an integral part of sericulture and widely adopted in Tamil Nadu. The Department of Sericulture, Government of Tamil Nadu has granted award for innovation of this eco-friendly technology.

4. Organic farming strategies in mulberry

Mulberry is a perennial crop and pruned 5-6 times annually to take up silkworm rearing and the routine agronomical practices *viz.*, application of fertilizers, weeding, management of pests and diseases *etc* after each harvest is an integral part of moriculture to ensure production of quality leaves for better growth and development of silkworms and cocoon yield. Normally, a mulberry garden receives about 1.40 MT of chemical fertilizers, 1-2 spray of weedicides and 10-12 sprays of insecticides per year. These practices affect soil health, pollutes the ecosystem and cause health hazards to human beings, silkworms and other beneficial organisms.

Therefore, organic farming strategies was developed with organic soil inputs *viz.*, FYM, vermi-compost, bio-fertilizers, green manuring *etc.*, for soil health management, eco-friendly management practices against mulberry pests by using effective parasitoids and predators, botanical pesticides water jetting technique and non chemical weed management practices with thermal weeding technique and black polythene mulching. *A technical bulletin “Organic farming in mulberry: Recent breakthrough” was published in July 2014.*

5. Thermal weeding in mulberry garden

Sericulture farmers often skip the weeding in mulberry garden or doing partial weeding due to scarce of agriculture labour and hike in wages. Routine use of herbicides is not desirable since it affects the mulberry plants as well as the soil health. Hence the competitive weeds cause heavy leaf yield loss in mulberry which resulted with reduction in silkworm rearing capacity and poor cocoon yield. To overcome the above problem, the thermal weeding technology is developed for mulberry garden first time in India after fabricating a suitable “Thermal Weeder”.

This technology has following merits:

- ✓ Effective, easier and economic than other method of weeding practices, user-friendly and eco-friendly.
- ✓ During hand weeding the matured seeds drop into the soil which lead to continuous growth of weeds throughout the year. But flaming burns the seeds which prevents repeated growth of weeds.
- ✓ Weeding could be taken up both in pruned and grown up mulberry gardens without adverse effect on the crop and soil micro-flora.
- ✓ Enriches soil fertility and enhances the population of beneficial micro-organisms.

6. Black polythene mulching for weed management and water economy

Mulching in agricultural crops especially in vegetable gardens is an age-old practice in many countries. Though number of organic and synthetic materials suggested for mulching, black polythene sheet found predominant. It prevents the weed growth due to its opaqueness, conserves the soil moisture by preventing evaporation from surface, enhances the temperature of root zone and hence renders fast crop development and higher yield. Therefore the techniques of black polythene mulching in mulberry garden as well as for nursery and agronomical practices for polythene sheet mulched mulberry gardens was standardized first time. This package is found very useful to the sericulture farmers for weed and drought management in mulberry garden.

7. Appropriate mulberry cultivation technique for deep rooting and drought tolerance

Proper establishment of mulberry garden is essential as the plants once cultivated are used continuously for about 25-30 years. In the absence of standard techniques, farmers make holes in the land using crowbar and simply insert the saplings. While inserting, the root system turns upwards or crammed which leads to development of shallow or poor root system. Therefore survivability, growth and yield parameters of mulberry plants are affected, the plants become poor tolerant to drought and dry quickly even under mild water stress condition. An appropriate package of practices for mulberry cultivation using earth auger for making pits, proper method of planting saplings, filling mixture was standardized with multiple trials and recommended to overcome the above problems.

8. Fogging system for microclimate management in silkworm rearing sheds during summer

The temperature and humidity range between 23⁰C & 28⁰C and 70% & 80% only ideal for silkworms. In tropical regions, the cocoon production is severely affected during summer because of strike of temperature beyond 40⁰C and slash of relative humidity below 30%. Generally, different types of humidifiers are used in summer months to overcome hot and dry conditions in silkworm rearing sheds. There are some demerits in humidifier as it requires long time to achieve required ambience, consumes more electricity, uneven distribution of mist, occupies more space, blockage *etc.*

An effective fogging system is designed and standardized for silkworm rearing sheds to overcome above problems. The fogging system is arranged beneath the roof by fitting one way tunable brass foggers at a distance of five feet with half inch water distributing PVC pipelines in three rows, one in middle of the house and another two along the side walls. The system is

operated by one HP pressure pump which connected to a thermo-hygrostat controller for automatic operation. The advantage of the fogging system is that it helps to maintain ample environmental conditions for the silkworm throughout the rearing period during the hot summer and to get a good cocoon yield.

9. Commercial rearing of Eri silkworm on cassava in Tamil Nadu

Ericulture is confined to the North-East zone and practiced in small scale mainly for domestic use of silk as well as consumption of pupae. Central Silk Board had introduced the ericulture commercially during 2001-2006 in other states where the food plants of eri silkworm castor and cassava (tapioca) are cultivated as agricultural crop in order to gear up eri silk production and generate additional income to the farmers. In Tamil Nadu cassava is cultivated in thousands of hectares and the state stands first in nation's tuber production. A complete package of practices for large scale rearing of eri silkworm on tapioca was developed under Ph.D., programme. Mainly, the quantum of cassava leaf harvest without affecting tuber yield and its starch content for ruling tapioca varieties was standardized.

10. Large scale production of Eri silkworm eggs

The technique for mass production of eri silkworm eggs was scanty as it was practiced in very small scale only by the tribes of NE for their domestic consumption since the time immemorial. Introduction of commercial rearing of eri silkworm in India during 2001 had drawn demand of huge quantity of eri silkworm eggs. Keeping this in mind, a technology was developed for large scale production of eri silkworm eggs in order to meet out the demand. Training was imparted to the staff of Eri Silkworm Production Center, Central Silk Board, Hosur, Tamil Nadu with this technology and large scale egg production was initiated during 2003.

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DECLARATION

I hereby declare that all the particulars stated in the application are true to the best of my knowledge and belief

Date: 07/08/2026

Place: Pampore, J&K, India



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