









The Management, Staff and Research Scholars of Entomology Research Institute (ERI), Loyola College, Chennai, Tamil Nadu, India

in collaboration with

Entomology Academy of India (EAI) & Dept. of Zoology University of Madras, Chennai

&

Sun Agro Biotech Research Centre (SABRC), Chennai

Cordially invite for the Inauguration of

International Conference on

EMERGING TRENDS IN INSECT SCIENCE-2022 (ICETIS-2022)

to be held on April 7, 2022 at 09.00 AM in Lawrence Sundaram Hall, Loyola College, Chennai Tamil Nadu, India

Chief Guest & Keynote Address

Dr V. B. Mathur

Chairperson National Biodiversity Authority (NBA) Chennai **Guest of Honour**

Dr Nalli Kuppusami Chetty

Chairman

Nalli Silks Chennai

Inauguration

Programme

Tamil Thai Vazhthu

ERI Choir



Lighting the lamp : Guests

Welcome Address : Rev. Dr S. Maria Packiam, SJ

Convener & Organizing Secretary ICETIS-2022

ERI, Loyola College, Chennai

Honouring the Guests

(Shawl, Memento & Tree sapling)

Special Address by the Guest of : Dr Nalli Kuppusami Chetty

Honour Chairman

Nalli Silks, Chennai

Felicitation : Rev. Dr Francis P. Xavier, SJ

Rector & Vice President Loyola Institutions, Chennai

Rev. Dr A. Thomas, SJ

Principal

Loyola College, Chennai

Releasing the Conference :

Abstract and Hexapoda Journal

Guests

Chief Guest Address : Dr V. B. Mathur

Chairperson

National Biodiversity Authority (NBA)

Chennai

Dynamics of the Conference : Dr S. Sithanantham

Director

SABRC, Chennai

Vote of Thanks : Dr S. Janarthanan

Professor & Head, Dept. of Zoology University of Madras, Chennai

Master of Ceremony : Dr T. D. John Caleb

Scientist, ERI, Loyola College



















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Cordially invite for the Valediction of

International Conference on

EMERGING TRENDS IN INSECT SCIENCE-2022 (ICETIS-2022)

to be held on April 8, 2022 at 03.30 PM in Lawrence Sundaram Hall, Loyola College, Chennai

Chief Guest

Dr Sultan Ahmed Ismail, D. Sc.

Member
State Planning Commission, Tamil Nadu

Valediction

Programme

Prayer song & : ERI Members

Tamil Thai Vazhthu

Welcome Address : Rev. Dr S. Maria Packiam, SJ

Convener & Organizing Secretary ICETIS-2022

ERI, Loyola College, Chennai

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Chief Guest Address : Dr Sultan Ahmed Ismail

Member

State Planning Commission, Tamil Nadu, India

Distribution of Best Awards

for Oral and Poster

Presentations

Guests

Feedback from Participants : Three participants

Vote of Thanks : Dr S. Sithanantham

Director SABRC Chennai

Master of Ceremony : Mr Jackson Amalraj

Research Scholar, ERI, Loyola College

National Anthem :









Programme Schedule









A Two-day International Conference on

Emerging Trends in Insect Science-2022(ICETIS-2022)

DAY - 1 (07.04.2022) - Thursday

Inaugural session (09.00 – 10.30 AM)

Prayer song & Tamil thai vazhthu : **ERI Members**

Lighting the Lamp : Guests

Welcome Address : Rev. Dr S. Maria Packiam SJ

Convener & Organizing Secretary, ICETIS 2022

ERI, Loyola College, Chennai

:

Honouring the Guests

(Shawl, Momento & Tree Sapling)

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Chairman

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Director

SABRC, Chennai

Vote of Thanks : Dr S. Janarthanan

Professor and Head, Dept. of Zoology University of Madras, Chennai



















Session 1 – Moderator:

10.30 AM - 11.00 AM	Invited Talk – 1 (VIRTUAL) Dr R. Srinivasan Lead Entomologist World Vegetable Center, Taiwan	:	Revisiting the Concepts and Practices of Integrated Pest Management in vegetable production systems	
	Coffee break (11.00 AM – 11.15 AM)			

Session 2 - Moderator:

Session 2 -	Moderator:		
11.15 AM - 11.45 AM	Invited Talk – 2 (VIRTUAL) Dr R. Muniappan Director, IPM Innovation Lab Virginia Polytechnic Institute and State University (VT), VA, USA	:	Management of Fall Armyworm in Africa and Asia
11.45 AM – 11.55 AM	Oral Presentation – I Dr S. Dorathy Selva Jeba Pritha Assistant Professor Apollo Arts and Science College, Poonamalle, Chennai	:	Coevolution of plant habitat and butterfly diversity
11.55 AM – 12.05 PM	Mr Harshad Parekar Ph.D Scholar Somaiya College of Science and Commerce, Mumbai	:	An annotated checklist of click beetles (Coleoptera: Elateridae) from the Western Ghats of India
12.05 PM – 12.15 PM	Ms. Judith Corolin Correya Ph.D Scholar ICAR - NBAIR, Bengaluru	:	Species diversity of white grub fauna (Coleoptera: Scarabaeidae) in Wayanad and Palakkad districts, Kerala, India
12.15 PM – 12.25 PM	Mr M. Prabhakaran Ph.D Scholar SABRC, Chennai	:	Field studies to improve para-pheromone traps and lures for mango fruit fly complex
12.25 PM – 12.35 PM	Ms C. Prithi Ph.D Scholar University of Madras, Chennai	:	Purification of seselin from the leaf extract of Aegle marmelos in prospecting potential larvicidal application
12.35 PM – 12.45 PM	Ms M. Abhirami Ph.D Scholar University of Madras, Chennai	:	Larvicidal effects of the extracts of Adenanthera pavonina (Fabaceae) and Sansevieria roxburghiana (Agavaceae) on the filarial vector Culex quinquefasciatus (L.)
12:45 PM – 01.00 PM	Invited Talk – III Dr S. Janarthanan Professor and Head, Dept. of Zoology University of Madras, Chennai	:	Prospects of DNA barcoding in the Taxonomy of Insects
	Lunch bred	ık (01.00 PM – 02.00 PM)
02:00 PM – 02.30 PM	Invited Talk – IV Dr K. Subaharan Principal Scientist, ICAR-NBAIR Bengaluru, Karntaka, India	:	Controlled-release pheromone-driven pest control system



















Session 3 - Moderator:

Session 3 -	Moderator:				
02:30 PM –	Invited Talk – V	:	Emerging collaborative R&D models in eco-		
02.45 PM	Dr S. Sithanantham		friendly pest management technologies		
	Director, SABRC				
	Chennai, Tamil Nadu, India				
	Oral Presentation – II				
02.45 PM –	Mr M. Madhusudan	:	Spatial distribution and community structure of		
02.55 PM	Junior Research Fellow		Aphis craccivora Koch endosymbionts		
	ICAR-IIHR, Bengaluru				
02.55 PM –	Ms. A. Brindha	:	Butterflies of Adyar eco-park based on their		
03.05 PM	Ph.D Scholar		abundance and status survey		
	Queen Mary's College, Chennai				
03.05 PM –	Dr V. Seshadri	:	Biopesticides – Review		
03.15 PM	Emeritus Scientist				
	ERI, Loyola College, Chennai				
03.15 PM –	Ms M. Padmaja	:	Contribution of arthropods, earthworms and		
03.25 PM	M. Sc Zoology		microorganisms in enhancing soil fertility		
	Madras Christian College, Chennai				
03.25 PM –	Ms Drashti Danani	:	Family composition of Coleoptera of Sanjay		
03.35 PM	Ph.D Scholar		Gandhi National Park, Mumbai		
	K.J.Somaiya College Of Science and				
	Commerce				
03.35 PM –	Ms Y. Taranum Fathima	:	Role of ants, termites and beetles in maintaining		
03.45 PM	M. Sc Zoology		fertility of arid soil		
02 45 D3 5	Madras Christian College, Chennai				
03.45 PM –	Dr M. Raghuraman	:	Effect of pest management interventions on		
03.55 PM	Professor		Collembola biodiversity in brinjal ecosystem		
02 55 DM	Banaras Hindu University, Varanasi				
03.55 PM – 04.05 PM	Dr K. Selvaraj	:	Biological control of invasive Rugose spiralling		
04.03 I M	Senior Scientist		whitefly Aleurodicus rugioperculatus Martin on		
	ICAR-NBAIR, Bengaluru		coconut and oil palm in India: A success story		
04.05 PM -	Ms. Deborah Anne Rose	:	Camouflaging and learning behaviour in		
04.15 PM	Student, Dept. of Zoology		Pediculushumanus capitus		
	MCC, Chennai				
	Poster Presentation	:			
	(04:15 PM – 04.30 PM)				
	Tea bre	ak (04	4.30 PM – 04.45 PM)		
	AGM Meeting of Entomology Academy of India (AGM-EAI)				
	(04:45 PM – 05.30 PM)				











Standard COVID-19 Protocol to be followed



















DAY - 2 (08.04.2022) – FRIDAY

Session 4 – Moderator:

09.00 AM -	Invited Talk – VI	Τ.	Trichogramma:		
09.30 AM					
09.30 AM	Dr N. Geetha		A roadmap for pest management in		
	Principal Scientist ICAR-Sugarcane		Sugarcane		
	Breeding Institute, Coimbatore, India				
09.30 AM -	Invited Talk – VII	:	Application of Genome Editing in Insect		
10.00 AM	Dr R. Asokan		Pest Management		
	Principal Scientist, ICAR-IIHR				
	Bengaluru, India				
10.00 AM -	Invited Talk – VIII (VIRTUAL)	:	Biopesticide industrialization: The Future		
10.30 AM	Dr Abraham Verghese		game plan for insect pest management		
	Former Director, ICAR-NBAIR				
	Bengaluru, India				
10.30 AM -	Invited Talk – IX	:	Phytochemicals in Insect Pest Management		
10.45 AM	Rev. Dr S. Maria Packiam SJ				
	Director				
	Entomology Research Institute				
	Loyola College, Chennai, India				
	Coffee break (10.45 AM – 11.00 AM)				

Session 5 – N	loderator:		
11.00 AM -	Oral Presentation – III	:	Isolation of ecto and endo parasites carried by
11.10 AM	Dr P. Ezhumalai		Periplaneta americana, Blattella germanica and
	Assistant Professor		Therea petiveriana cockroaches, Chennai
	Dept. of Botany		district, Tamil Nadu, India
	DG Vaishnav College, Chennai		
11.10 AM –	Ms S. Bhuvaraghavan		A human T-cell mitogenic and anti-
11.20 AM	Ph.D Scholar		inflammatory galectin from the rhinoceros
	University of Madras, Chennai		beetle Oryctes rhinoceros: Purification,
			characterization and
			de novo transcriptomics
11.20 AM –	Mr Ashish Kamal	:	Influence of dates of sowing on incidence of
11.30 AM	Ph.D Scholar		Pink bollworm, Pectinophora gossypiella
	College of Agriculture, Mandya		(Saunders) (Lepidoptera: Gelechiidae) in cotton
			(Gossypium hirsutum L.)
11.30 AM –	Dr M. Sampath Kumar	:	Classical biological control of cassava
11.40 AM	Senior Scientist		mealybug in India: Introduction to release of the
	ICAR-NBAIR, Bengaluru		host specific parasitoid, Anagyrus lopezi in the
			cassava plantations and way forward
11.40 AM –	Mr P. Sathiyamoorthy	:	Economic importance of parasitoids in organic
11.50 AM	Ph.D Scholar		and agribusiness and their efficient utilization.
	Govt. Arts College of Men, Chennai		

















44 50 135			
11.50 AM –	Ms Divya Sundari	:	Ficus benghalensis prop roots against mosquito
12.00 PM	Ph.D Scholar		larvae
	Guru Nanak College, Chennai		
12.00 PM –	Ms R. Mahalakshmi	:	In-Silico studies on bioactive compounds
12.10 PM	Ph.D Scholar		derived from Melia species against Helicoverpa
	Ethiraj College for Women, Chennai		armigera Hubner
12.10 PM -	Ms S. Sangeetha	:	Bioactive potential of secondary metabolites
12.20 PM	Ph.D Scholar		from superior germplasm of Azadirachta indica
	Ethiraj College for Women, Chennai		A. Juss. against polyphagous pest Spodoptera
			litura
12.20 PM –	Ms. Jemimah Moses	:	Effect of entomopathogenic fungi, Aspergillus
12.20 PM	Ph.D Scholar	•	niger (OM514698) isolated from insect cadaver
12.30 PM	University of Madras, Chennai		against house fly larvae and adults
12 20 DN/	1 1		against nouse fly tarvae and dautis
12.30 PM –	Invited Talk – X		
01.00 PM	Dr S. Prabakaran	:	Diversity of Insects in Tamil Nadu – A Review
	Scientist-E		
	Zoological Survey of India (ZSI)		
	Chennai, India		
	Lunch brea	ık (0	$(1.00 \ PM - 02.00 \ PM)$
02.00 PM-	Invited Talk – XI		
02.30 PM	Dr John Mumford	1:	Pest Risk and Quarantine
	Faculty of Natural Sciences, Centre for		
	Environmental Policy, UK		
02.30 PM –	Oral Presentation – IV		
02.40 PM	Dr Joseph B. Devadass	:	Recent trends in microbial insect pest
	Scientist		management and microbiome innovation - A
	ERI, Loyola College, Chennai		special focus on Brevibacillus laterosporus
02.40 PM -	Ms M. Meenakumari	:	Detection and preliminary characterization of
02.50 PM	Ph.D Scholar		arcelin from Phaseolus lunatus
	University of Madras, Chennai		
02.50 PM -	Dr Melvin A. Daniel	1:	Agrobacterium-mediated genetic transformation
03.00 PM	Scientist		of Okra (Abelmoschus esculentus (L.) Moench)
05.00 1 111	ERI, Loyola College, Chennai		for insect resistance against Helicoverpa
			armigera
03.00 PM –	Ms K. Sruthi	:	Detection and physicochemical characterization
03.10 PM	Ph.D Scholar		of serum haemagglutinin activity from black
	University of Madras, Chennai		soldier fly larvae (BSFL), Hermetia illucens
03.10 PM –	Ms B. Deepalakkshmi	:	
03.20 PM	Ph.D Scholar		Influence of solvents on the germination of the
	Govt. Arts College of Men, Chennai		selected seeds treated with neem extracts.
03.20 PM –	Ms R. Nivetha	:	An exploratory investigation of propensity
03.30 PM	PhD Scholar		and status quo of insect cellulases for
UJ.JU I IVI	University of Madras, Chennai		prospected applications
XX 7 • 4 • 3 • .			1 1 11
Waiting list	Ms B. Marieshwari	:	Standardization of suitable protocol for serum
	PhD Scholar		phenoloxidase (PO) activity from the grub of
	University of Madras, Chennai	1	rhinoceros beetle Oryctes rhinoceros



















Valedictory session (03.30 – 04.00 PM)

Prayer song : **ERI Members**

Welcome Address : Rev. Dr S. Maria Packiam SJ

Convener & Organizing Secretary, ICETIS 2022

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Felicitation by the Loyola Management : Rev. Dr Francis P. Xavier SJ

Rector & Vice President Loyola Institutions, Chennai

Rev. Dr A. Thomas SJ

Principal

Loyola College, Chennai

Chief Guest Address : Dr Sultan Ahmed Ismail

Member

Tamil Nadu State Planning Commission, India

Distribution of Best Awards for Oral

and Poster Presentations

Guests

Feedback from participants : Three participants

Vote of thanks : **Dr S. Sithanantham**

Director

SABRC, Chennai

Tea followed by departure (04.00 - 04.30 PM)

Organizers

Entomology Research Institute (ERI)

Loyola College Chennai – 600 034 Tamil Nadu, India **Entomology Academy** of India (EAI)

University of Madras Chennai – 600 025 Tamil Nadu, India Sun Agro Biotech Research Centre (SABRC)

Mugalivakkam Chennai – 600 125 Tamil Nadu, India









Programme Schedule











The First Virtual International Conference on

Emerging Trends in Insect Science-2022(ICETIS-2022)

THURSDAY – (07.04.2022) Inaugural Session (09.00 AM – 10.30 AM)

Kindly click the YouTube Link to participate in ICETIS – 2022 Day 1 (7th April 2022): Youtube Link from 9.00 AM to 05.00 PM https://youtu.be/J5HJZGmXqN8

Day 2 (8th April 2022): Youtube Link from 9.00 AM to 05.00 PM https://youtu.be/OoF5jZmxjkA

Executive Members : Dr V. Duraipandiyan

Senior Scientist Entomology Research Institute Loyola College, Chennai

Dr K. Sivasankaran

Senior Scientist Entomology Research Institute Loyola College, Chennai

: Mr Jackson Amalraj

Research Scholar Entomology Research Institute Loyola College, Chennai

Virtual Oral Presentation

meet.google.com/knn-hpjt-bge

Session 1

11:35 AM – 11:45 AM	Dr S. Kalaichelvi Associate Professor Sri G.V.G Visalakshi College for Women (Autonomous) Udamalpet	:	Taxonamical study for the identification of garden spider through genomics sequence analysis
11:45 AM – 11:55 AM	Dr J. Jagatheeswari Assistant Professor Chikkanna Govt Arts College- Tirupur	:	Pests and diseases on the growth and development of the silkworm Bombyx mori L and measures to improve the women entrepreneurship in and around Coimbatore district (Tamil Nadu)



















11:55 AM 12:05 PM	Ms R. M. Subhashini Ph.D Scholar CHRIST university, Bengaluru	:	Growth and nutritional composition of black soldier fly (Hermetia illucens) larvae reared on different substrates	
12:05 PM - 12:15 PM	Mr T. H. Samuel Asir Student MCC, Chennai	:	Insect survey in Arikambedu and its relative abundance based on temperature and humidity	
12:15 PM- 12:25 PM	Mr Honnakerappa S. Ballari PhD Scholar UAS, GKVK Campus Bengaluru-560065	••	Floral insect diversity on pigeonpea ecosystem in Bengaluru, Karnataka	
12:25 PM- 12:35 PM	Dr Rosaline Mary Assistant Professor Nirmala College for Women Coimbatore	:	Management of red flour beetle Tribolium castaneum (Herbst) (Coleoptera: Tenebrionidae) on stored raw rice using leaf powders of Ocimum sanctum and Coleus aromaticus	
12:35 PM - 12:45 PM	Ms. Satwika Mukundan Student MCC, Chennai	:	Analysing the larvicidal activity of different plant compounds on culicid larvae	
12:45 PM- 12:55 PM	Mr T. D. Nidheesh Ph.D Scholar University of Agricultural Sciences, GKVK Bengaluru	:	Oviposition-induced volatiles influence electrophysiological and behavioural responses of egg and egg-larval parasitoids	
	Lunch break (12.55 PM – 02.35 PM)			

Session 2

02:35 PM-	Mr K. Aravinthraju	:	Insect symbionts in insecticide resistance
02:45 PM	Ph.D Scholar		
	TNAU		
02:45 PM-	Ms M. Sowmya	:	Impact of essential oils and their major
02:55 PM	Ph.D Scholar		constituents on physiology and biochemical
	ICAR-NBAIR		aspects of rice moth, Corcyra cephalonica
02:55 PM –	Ms Khushboo Sinha	:	Olfactory behavioural response of Plutella
03:05 PM	Ph.D Scholar		xylostella (L.) to essential oils from plants
	ICAR-NBAIR		
03:05 PM -	Mr T.M. Vinay Kumar	:	Insecticidal activities of essential oils against
03:15 PM	Ph.D Scholar		diamond back moth, Plutella xylostella
	ICAR-NBAIR		
03:15 PM –	Dr K. Elango	:	Identification and characterization of
03:25 PM	Scientist		kairomone attractive to Encarsia
	TNAU, Coimbatore		guadeloupae against the invasive rugose
			spiralling whitefly, Aleurodicus
			rugioperculatus Martin
03:25 PM –	Mr Beerendra Singh	:	Population dynamics of tomato pinworm Tuta
03:35 PM	Ph.D scholar		absoluta (Meyrick) in tomato under protected
			cultivation



















	Rajasthan College of Agriculture		
03:35 PM – 03:45 PM	Dr V. Reshmi Assistant Professor S. N College, Cherthala	:	A novel gland in larvae of Rhynchophorus ferrugenius (Coleoptera: Curculionidae)
03:45 PM – 03:55 PM	Mr Dharavath Saicharan Ph.D scholar University of Agricultural Sciences	:	Studies to evaluate bio-intensive modules against insect pests of sorghum [Sorghum bicolor (L.) Moench] in rabi
03:55 PM – 04:05 PM	Ms V. Kaviya Ph.D Scholar Nirmala College for Women, Coimbatore	:	The pesticidal activity of eco-friendly synthesized Zinc oxide nanoparticles using Sargassum cristaefolium seaweed extract against crop pest of Spodoptera litura (Fab.) (Lepidoptera: Noctuidae)
04:05 PM – 04:15 PM	Mr A. V. Moorthy Ph.D Scholar TNAU		Electroantennogram- visualizing olfactory sense of insect
04:15 PM – 04:25 PM	Dr V. Dhivya TNAU		Development of lemongrass oil nanoemulsion and their insecticidal activity against pulse beetle (Callosobruchus maculatus F.)
04:25 PM – 04:35 PM	Ms Riya Shaji Researcher CHRIST University		A preliminary investigation into the morphological characterization of various stages of black soldier fly larvae
04:35 PM – 04:45 PM	Ms Susanna Jose M. Sc MCC, Chennai		Investigation on the foraging behaviour of Monomorium pharaonis (Hymenoptera: Formicidae)
04:45 PM – 04:55 PM	Ms. Jahanvi Tiwari Ph.D Scholar G. B. Pant University of Agriculture and Technology Uttarakhand	:	Impact of light wavelength on Galleria mellonella Linnaeus and its oviposition activity

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