



21-25 November 2023
Thiruvananthapuram, Kerala, India
Kerala Arts and Crafts Village
Kovalam, Thiruvananthapuram, Kerala, India

Tuesday, 21 NOVEMBER 2023

Venue: Uday Samudra Leisure Beach Hotel, Kovalam

<https://www.udshotels.com/uday-samudra-leisure-beach-hotel-spa/>

15.00-17.00

WELCOME DESK AND REGISTRATION

17.00-18.00

INAUGURAL SESSION

Invocation song: 'Lokah Samastah Sukinno Bhavantu' (May All Beings Everywhere Be Happy and Free): Students of Dept of Music, University of Kerala

Welcome: Prof A Biju Kumar, Organising Secretary, JBS7

Symposium Overview: Prof Mike Dawson, California State University and Chair, International Advisory Board

Speech by Guest of Honour: Dr B Meenakumari, Former Chairperson of National Biodiversity Authority and Deputy Director General (Fisheries), Indian Council of Agricultural Research (ICAR), New Delhi

Inauguration: Prof Mohanan Kunnummal, Vice-Chancellor, University of Kerala, and Kerala University of Health Sciences

Honouring the international committee members

World Fisheries Day: Honouring Mr Shibu Dasan, a representative of artisanal fisherman of Kerala, followed by presentation of his perception on jellyfish in coastal waters of Kerala (the speech will be translated into English)

Felicitations:

Prof Mark John Gibbons, Department of Biodiversity and Conservation Biology, University of the Western Cape, Republic of South Africa

Prof PM Radhamany and Prof Gopchandran KG, Members of Syndicate, University of Kerala

Prof KS Anil Kumar, Registrar, University of Kerala

Dr JK Patterson Edward, Director, Suganthi Devadason Marine Research Institute (SDMRI)

Vote of Thanks: Dr Grinson George, Head, Marine Biodiversity & Environment Management Division, CMFRI, Kochi

NATIONAL ANTHEM (Students of Dept of Music, University of Kerala)

18.30 – 20.30	Welcome dinner (Uday Samudra Leisure Beach Hotel, Kovalam) Fusion music by CLAP BOX BAND (Violin: Neeraj Ram B; Guitar : Hrishikesh, P., Percussion: Dhanush JP; Bass Guitar: Harikrishnan; Keyboard: Induchoodan G.)	
Wednesday, 22 NOVEMBER 2023		
8.00-9.00	WELCOME DESK AND REGISTRATION	
09.00-9.15	Welcome Talk and Symposium Overview	Mike Dawson and Biju Kumar
JBS7- SESSION 1: Human-Jelly Interactions		
Chair: Sergio Stampar Co-Chairs: Grinson George; S M Raffi Rapporteur: A Riyas		
Time	Author	Abstract title
9.15-9.45	PLENARY LECTURE Jamileh Javidpour	Harmony Disrupted: The interplay of humans and jellyfish
9.45-10.00	Antonella Leone	Jellyfish blooms in the Mediterranean Sea: a potential source of functional novel food
10.00-10.15	Pralaya Ranjan Behera	Emerging commercial fisheries of catostylid jellyfish, <i>Crambionella annandalei</i> from Western Bay of Bengal
10.15-10.30	Hannah Brownlow	Developing a short-term harmful jellyfish forecast model for the salmon aquaculture industry
10.30-10.45	Sunwoo Kim	Precautionary management of jellyfish bloom by polyp elimination
10.45-11.00	Alexandre Jan	A versatile method to culture different ctenophore species
11.00-11.30	TEA	
11.30-11.40	Subal Roul	Characterization of the small-scale jellyfish fishery and its economic efficiency along the Odisha coast, northwestern Bay of Bengal
11.40-11.50	Sergio Stampar	Jellyfish bloom of <i>Craspedacusta</i> in tilapia farms in Southern Brazil
11.50-12.00	Ramkumar Sugumar	Cubozoan blooms and its interaction with commercial fish production activity along the coastal region of Palghar district, Maharashtra, Northeastern Arabian Sea, India
12.00-12.10	Miriam Paul Sreeram	Stakeholders perception on jellyfish blooms and effects on marine fisheries in Kerala state, India
JBS7- SESSION 2: Bio-inspiration / Envenomation		
Chair: Angel Yanagihara Co-Chairs: Miriam Paul Sreeram; Venmathi Maran Rapporteur: Kurian Mathew Abraham		
12.10-12.25	Angel Yanagihara	Cubozoan envenomation: mechanisms, models and management
12.25-12.40	Vasudevan Shankar	Dynamics of Jellyfish Swarms: Unraveling the Intricate Influence of Coastal Ocean Parameters in the South Eastern Arabian Sea

12.40-12.55	Krishan Karunaratne	Jellyfish fishery in Sri Lanka
13.00-14.00	LUNCH	
JBS7- SESSION 3: Associations and Ecology		
Chair: Kylie Pitt		
Co-Chairs: Mark Gibbons; R Saravanan		
Rapporteur: Surya S		
14.00-14.30	PLENARY LECTURE Tinkara Tinta	The missing links between jellyfish and microbes in the ocean realm
14.30-14.45	Serafin III Geson	Thermal influences on the life cycle recruitment of the upside-down jellyfish, <i>Cassiopea</i> sp., in a tropical shallow embayment
14.45-15.00	Marta Mammone	The influence of photosymbiosis in <i>Cassiopea xamachana</i> regenerative success
15.00-15.15	Kentaro Suzuki	Environmental factors affecting the population dynamics of moon jellyfish <i>Aurelia coerulea</i> in Ise Bay, Japan
15.15-15.30	Kylie Pitt	Parasites as trophic indicators of predation on gelatinous zooplankton
15.30-16.00	TEA	
16.00-16.15	Riyas Abdul	Evaluating environmental influences on <i>Acromitus flagellatus</i> Maas, 1903 jellyfish blooms in southwest Indian backwaters and estuaries
16.15-16.30	Gregorio Motta	The hidden gastrovascular system of Rhizostomeae: innovative methods of study
16.30-16.45	Samir Aljbour	Differential effects of PAR and UVA on <i>Cassiopea andromeda</i> jellyfish respiration, oxidative stress, and photosynthesis
16.45-17.00	organizational break	
<p>17.00-22.00: Tour (Delegates to give options at Registration desk)</p>		

Thursday, 23 NOVEMBER 2023		
8.30-9.00	Virtual Poster Presentations	
JBS7- SESSION 4: Associations and Ecology		
Chair: Andre Morandini Co-Chairs: Macarena Campos; L Ranjith Rapporteur: Subal Kumar Roul		
9.00-9.30	PLENARY LECTURE Cornelia Jaspers	Do gelatinous zooplankton traits facilitate population outbursts under global change?
9.30-9.45	Ratheesh Kumar R	Spatio-temporal variations in jellyfish catch of bagnets in Maharashtra, India
9.45-10.00	Jessica Strickland	Convergent oceanographic slicks as potential habitat for jellyfishes
10.00-10.15	Macarena Marambio Campos	Jellyfish, the favored ones by climate change conditions in the Catalan coast, NW Mediterranean
10.15-10.30	Valentina Leoni	Trophic ecology of jellyfish in marine food webs
10.30-10.45		
10.45-11.00	Jonathan Lawley	Differential expression of rhizostomin pigments leads to colour variation in a jellyfish
11.00-11.30	TEA	
11.30-11.45	Joshua Stone	Temporal and spatial distribution of the cannonball jellyfish (<i>Stomolophus meleagris</i>) in the South Atlantic Bight, USA
11.45-12.00	Mohamed Nejib Daly Yahia	Jellyfish populations in Qatar seawaters: the role of artificial shoreline development and recent hydro-climatic changes on scyphozoans blooms
12.00-12.15	Kyoung Yeon Kim	Causes of the <i>Aurelia coerulea</i> outbreak on the southern coast of Korea
12.15-12.30	Rebecca Helm	Distribution of left- and right-handed <i>Velella</i> in the global ocean
12.30-12.45	Giacomo Milisenda	The role of fatty acids in the reproduction of <i>Pelagia noctiluca</i>
12.45-13.00	Scott Morrissey	Use of eDNA to test hypotheses on the ecology of <i>Chironex fleckeri</i>
13.00-14.00	LUNCH	
Chair: Rebecca Helm Co-Chairs: Cesar Bordehore; Pralay Ranjan Behera Rapporteur: Mithun Sukumaran		
14.00-14.10	Marie Meffre	Unmanned aerial survey allows mapping <i>Rhizostoma pulmo</i> bloom dynamics in Bages-Sigean lagoon (Aude, France)
14.10-14.20	Mayara Jordano	The role of cilia in cnidarians, a brief review and new insights on the feeding mechanisms
14.20-14.25*	Rithin Raj M	Studies on the dietary preferences of three scyphozoan jellyfish species in a tropical positive estuary, south India

14.30-14.40	Kavya Gokul	Association of jellyfish <i>Catostylus perezii</i> with crustaceans: A preliminary observation from Gulf of Kutch, Gujarat
14.40-14.45*	Nicholas Wei Liang Yap	Marine stingers: effects of sea warming and food availability on a tropical jellyfish species
14.50-15.00	Clarissa Garbi Molinari	Molecular responses of cnidarians to environmental stress
15.00-15.10	Cesar Bordehore	Transforming Matrix Population Model into a Dynamic Size-Structured Model: A case study of <i>Carybdea marsupialis</i> population
15.10-15.20	Nicole Aberle-Malzahn	Long-term dynamics and population structure of the Helmet jellyfish <i>Periphylla periphylla</i> in a Norwegian fjord
15.20-15.30	Luis Martell	Worm-filled jellies: a multiapproach assessment of the dynamics of helminths parasitizing jellyfish hosts in two Norwegian fjords
15.30-16.00	TEA	
16.00-18.00	POSTER EVALUATION Themes: Bioinspiration and Evenomation Associations and Ecology	Participants to be near the poster for flash presentations in front of the affixed poster Affix your poster in the two themes ONLY on 23rd November 2023 in the allotted spaces
18.00-19.30	CULTURAL EVENING Kathakali (Traditional Art form of Kerala)	Story: Duryodhanavadham (Scene of killing Dussasana and Duryodhana- story from the epic Mahabharatham Lead: Dr Narayanan Namboothiri (Scientist, JNTBGRI)
HIGH TEA		
PARALLEL EVENT Public Lecture (10.00-11.00) and PRESS MEET Venue: Press Club, Thiruvananthapuram Mark J Gibbons (Jellyfish, People and the United Nations' Sustainable Development Goals)		
Friday, 24 NOVEMBER 2023		
JBS7- SESSION 5: Biodiversity		
Chair: Delphine Thibault Co-Chairs: Florian Lüsckow; S. Ramkumar Rapporteur: Pramod Kiran		
9.00-9.30	PLENARY LECTURE Allen G. Collins	Pace and scope in characterizing the diversity and distributions of jellyfishes – How are we doing as a community?
9.30-9.45	Michael Dawson	Scyphozoan systematics, genomics, and a new age of reason
9.45-10.00	Mehul Sangekar	New technologies for detecting blooms of mesozooplanktonic jellies
10.00-10.15	Joan J Soto-Angel	Bipolar jellyfish: evolutionary origin and diversification
10.15-10.30	Saravanan Raju	Mapping and monitoring recurrent jellyfish blooms in Indian coastal waters: known and unknown

10.30-10.45	Florian Luskow	Freshwater jellyfish research – hidden gems, knowledge gaps, and current progress
10.45-11.00	Maciej Mańko	Gelatinous zooplankton as indicators of the Arctic Ocean Atlantification
11.00-11.30	TEA	
11.30-11.45	Verena Ras	Hiding in plain sight – hidden genetic diversity of west African jellyfish
11.45-12.00	Ramesh Chatragadda	Underexplored jellyfish blooms in some locations of India: Impacts, research gaps and future directions in sustainable utilization and management
12.00-12.15	Delphine Thibault	Siphonophore community along the Southeast Coast of South Africa (ACEP 2017 Summer and Winter cruises)
12.15-12.30	Maria McGuinness	The Irish seasonal coastal current – the source of <i>Muggaea atlantica</i> in Ireland?
12.30-12.45	Martin Vodopivec	Modelling the dispersal of <i>Pelagia noctiluca</i> in the Mediterranean Sea
12.45-13.00	Doris Björling	Anthoathecate jellyfish and their polyps in Swedish waters: An integrative taxonomy approach
13.00-14.00	LUNCH	
Chair: Mike Dawson Co-Chairs: Dhugal Lindsay; K V Jayachandran Rapporteur: Ramesh Chatragadda		
14.00-14.15	Michael Brown	Morphoplasticity and environment: Where the lines between taxonomy and ecology blur
14.15-14.30	Gerlien Verhaegen	Drivers behind the diversity and distribution of a widespread midwater narcomedusa
14.30-14.45	Dhugal Lindsay	Hot bathtubs as proxies: jellyfish in a warming ocean
14.45-15.00	A.B. Kumar	Citizen Science illuminate the enigmatic realm of scyphozoans, including three new records to India
15.00-15.15	BA Venmathi Maran	Jellyfish Biodiversity in Sabah, Malaysia
15.15-15.30	Libertine Agatha Densing	Cubozoan and scyphozoan jellyfish from Carigara Bay, Leyte, Philippines
15.30-16.00	TEA	
16.00-18.00	POSTER EVALUATION Themes: Human-Jelly Interactions Biodiversity Participants to be near the poster for flash presentations in front of the affixed poster Affix your poster in the two themes ONLY on 24th November 2023 in the allotted spaces	

18.30 -21.00	VALEDICTORY DINNER Coordinator: Mike Dawson Venue: Amphitheatre, Arts and Crafts Village	In Honour & Memoriam Lectures		
		Memorials		
		Honoree	Presenter	In-person/Video
		Dale Calder	Allen	In person
		Veronica Fuentes	Macarena Marambio	In person
		Appreciations (recently retired and/or not previously honoured)		
		Honoree	Presenter	In-person/Video
		Ric Brodeur	Tom	Video
		Bill Hamner	Mike	In person
		Larry Madin	Kelly	Video
		Jenny Purcell	Kylie	In person
		Peter Schuchert	Allen	In person
Shin Uye	Dhugal Lindsay	In person		

Guest of Honour:
Padmasree M.C. Dathan, former director, Vikram Sarabhai Space Centre (VSSC) and Scientific Advisor to Chief Minister of Kerala
Valedictory Address:
Dr A Gopalakrishnan, Director, ICAR-Central Marine Research Institute, Kochi
REOPORT
VOTE OF THANKS

PARALLEL EVENT
Venue: Mini Conference Hall, Kerala Arts and Crafts Village
THEME: Jellyfish fisheries and Trade: Status, Trends and Impacts on Livelihood
Date & Time: November 24, 2023 | 10.00 to 12.00 hrs
Organised by CMFRI
Venue: Mini Conference Hall, Kerala Arts and Crafts Village
Chair: A. Gopalakrishnan, Director, ICAR-CMFRI
Chair: Dr Biju Kumar K., Head, Dept. of Aquatic Biology & Fisheries, University of Kerala

10.00 - 10.10
A. Gopalakrishnan, Director, ICAR-CMFRI
Introductory remarks: Jellyfish fisheries and Trade - Status, Trends and Impacts on Livelihood

10.10 - 10.30
Dr Biju Kumar A., Head, Dept. of Aquatic Biology & Fisheries, University of Kerala
Jellyfish and jellyfish fisheries in India: State of Knowledge and Knowledge Gaps

10.30 - 10.50

Dr Bindu J, Principal Scientist, ICAR-CIFT
Novel Processing Technologies for Jellyfish Products: Enhancing Quality, Safety, and Market Value
10.50 - 11.10

Dr Krishan Karunaratne
Jellyfish fishery in Sri Lanka
11.10 - 11.30

Dr Saravanan Raju, Senior Scientist, ICAR-CMFRI
Jellyfish Fisheries: Unveiling the Economic and Social Implications of a Rising Marine Resource
11.30 - 11.50

Dr Miriam Paul Sreeram, Principal Scientist, ICAR-CMFRI
From Nuisance to Economic Boon - The Emergence of Catosylids as a Commercial Fishery in India
DISCUSSION

PHOTO EXHIBITION: Venue- Art Centre, Kerala Arts and Crafts Village
22 to 24 November 2023

Saturday, 25 NOVEMBER 2023

Fieldwork and local tour

For tours contact our event management team for tours

Kerala Travels Interserve (<https://keralatravels.in/>)

Susan Mammen, Customer Happiness Officer

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JBS7 Workshop: INTEGRATIVE TAXONOMY

25–27 November, 2023

Venue: Dept. of Aquatic Biology & Fisheries, University of Kerala, Karyavattom Campus, Thiruvananthapuram

Contact Resource Persons: Dr Mike Dawson (mdawson@ucmerced.edu) or Liza Liza Gomez Daglio (liza.gomez-daglio@fresnocitycollege.edu)

Local Support: Dr Riyas (+91 9745771433); For transportation: Dr Mithun (+91 8075956015)