



WORLD BRACKISHWATER AQUACULTURE
CONFERENCE

BRAQCON 2019

Theme
Brackishwater Ecosystem | Aquaculture | Food Security | Societal Development

FIRST ANNOUNCEMENT



Society of Coastal Aquaculture and Fisheries (SCAFi)
Central Institute of Brackishwater Aquaculture (CIBA)

23 - 25 JANUARY 2019
CHENNAI, INDIA



Dear Researchers / Stakeholders,

We are glad to invite you to the World Brackishwater Aquaculture Conference (BRAQCON) 2019, being organised by the Society of Coastal Aquaculture and Fisheries (SCAFi), Chennai and ICAR-Central Institute of Brackishwater Aquaculture (ICAR-CIBA), scheduled from January 23rd to 25th, 2019 at Chennai, India. BRAQCON 2019 will be a significant event in the fisheries sector in the context of Brackishwater Aquaculture, Coastal Ecosystem, Food security and Societal development. This conference would be a unique platform that confluences academic researchers, industrialists, farmers, market analysts, policy makers and other government officials from both India and abroad. BRAQCON 2019 envisages to deliberate on current topics concerning the brackishwater ecosystem and sustainable aquaculture with focus on species and system diversification, nutrition and feed biotechnology, disease and health management, genetics, genomics and biotechnology, economics and social issues. Leading experts from across the world and India will present and share their valuable experience on the conference themes.

We extend a very warm welcome to you and request your presence to make BRAQCON 2019 a grand success.

Dr.K.K. Vijayan
Director, ICAR-CIBA &
Convener, BRAQCON 2019

Dr. Shankar V. Alavandi
Organising Secretary
BRAQCON 2019



Farm reared Pacific white shrimp (left) and Indian white shrimp (right)

Overview of the conference

Fish is one of the most-traded food commodities worldwide with more than half of the global production coming from developing countries. World per capita fish supply peaked at 20 kg in 2014, mainly due to developments in aquaculture. Fisheries and aquaculture are expected to contribute significantly to the food security and nutrition for the projected global population of 9.7 billion by 2050. Brackishwater aquaculture, particularly shrimp farming, is one of the most dynamic and fastest growing food producing sectors contributing substantially to the economy and sustainability of coastal communities worldwide. Sustainable development of aquaculture, especially brackishwater aquaculture, should be planned in harmony with the ecosystem that supports farming systems. The dynamics of the estuarine ecosystem and related factors such as environment, climate change and man-made ecosystem alteration etc., can play a crucial role in aquaculture in these resources. Modern day aquaculture is rapidly evolving with the support of scientific innovations and technological support in the areas of genetics, breeding and stock improvement, nutrition and feed biotechnology, disease and health management, farm management and social aspects. Consumers are extremely conscious of the quality of food they eat and the way it is produced. Therefore, environmentally benign farming is essential for the success of aquaculture ventures. BRAQCON 2019 is expected to “THINK GLOBALLY” for development of aquaculture with strong R&D inputs, and “ACT LOCALLY” for implementing responsible fisheries and aquaculture.

Objective

“BRAQCON 2019” envisages to provide a unique platform for an august gathering of people involved in innovative activities in brackishwater aquaculture and fisheries, nationally and internationally. Sharing of experience and research advancements in the frontier areas would facilitate maximum utilization, cultivation, conservation and development of aquatic resources. The conference would elicit interest among young researchers and scientists to undertake studies and research to further open up new blue growth avenues for a better world. “BRAQCON 2019” is also an attempt to foster cooperation between concerned governmental, non-governmental institutions, private sector and farmers for advancement of sustainable aquaculture and fisheries in brackishwater ecosystems .

Conference themes

The conference would cover latest research and development in the broader themes of the conference in the form of special sessions, contributed papers, expert group discussions and brainstorming on issues facing aquaculturists and ecosystem managers in India and around the world. The following are the themes of the conference:

➤ **Brackishwater ecosystem**

Estuarine ecosystem features, primary and secondary productivity, pollution, coastal shifts, coastal regulation and protection.

➤ **Brackishwater and estuarine biodiversity and conservation**

Diversity and distribution of finfish and shellfish, migrations and effects of barriers, ecosystem services, alien species in brackishwaters, fishery and exploitation issues, conservation and management.

➤ **Aquaculture production systems**

Husbandry of finfishes, shrimps and other crustaceans, molluscs, different farming systems including Integrated Multi-Trophic Aquaculture (IMTA), organic and biofloc systems; coastal ecosystems: freshwater, brackishwater, marine, aquaculture resource management, Recirculating Aquaculture Systems (RAS), aquaculture engineering and post- harvest technology.



Small volume cages for fin fish farming in west coast of India



➤ **Reproduction and larviculture**

Shellfish and finfish reproduction, broodstock propagation and management of reproduction under captivity, larviculture of shellfish and finfishes.

➤ **Fish and shellfish nutrition**

Fish and shellfish nutrition, formulated feeds, feed additives, alternative feeds and ingredients, nutraceuticals, microalgae, live feeds, probiotics and prebiotics.

➤ **Aquatic environment and climate change**

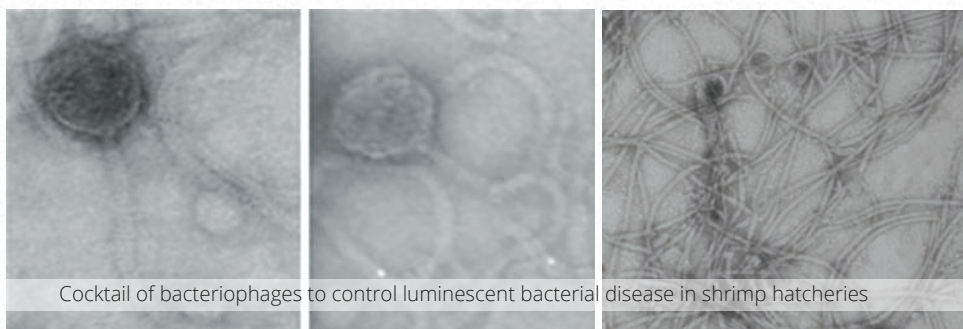
Aquaculture environment, carrying capacity, water quality, nutrient cycles and budgeting, pond management, greenhouse gases and aquaculture, mangroves and coastal systems.

➤ **Aquatic animal health**

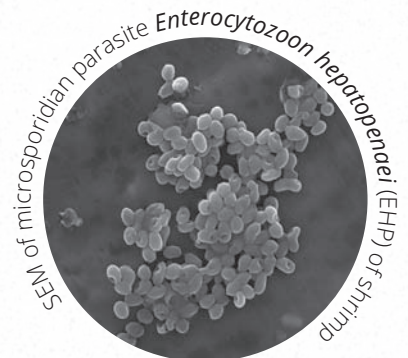
Finfish and shellfish diseases, biosecurity and quarantine, diagnostics, prophylactics and therapeutics, aquaculture medicine and food safety.



Pilot scale feed mill of ICAR-CIBA which has the capacity to produce broodstock, larval and grow-out feeds for shellfish and finfish



Cocktail of bacteriophages to control luminescent bacterial disease in shrimp hatcheries

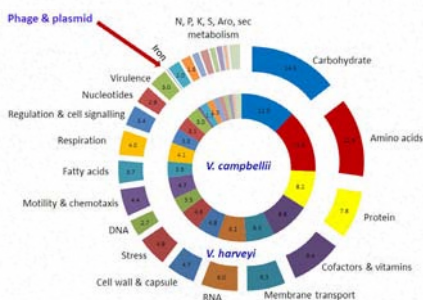


➤ **Socio-economic and livelihood issues of fisheries and aquaculture**

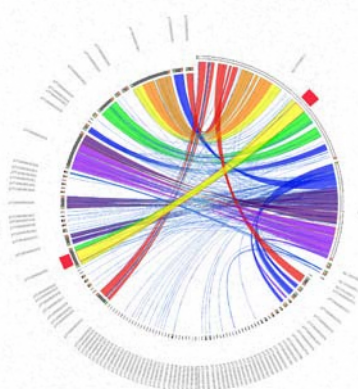
Aquaculture economics and marketing, trade issues, socio-economics of fisheries and aquaculture, aquaculture laws and regulations, seafood quality, aquaculture certification, coastal societal development and human resource development.

➤ **Aquaculture genetics and biotechnology**

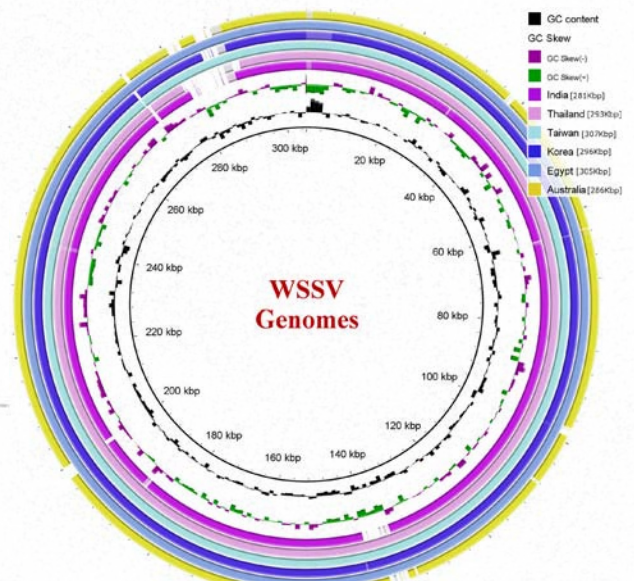
Finfish/shellfish genetics and genomics, bioinformatics, stock characterization and selective breeding.



Genome map of *Vibrio campbellii*



Comparative genome map of *Vibrio parahaemolyticus*



Comparative genome map of Indian isolate of WSSV

Keynote speakers

Invited plenary lectures will be delivered by world renowned experts in the respective fields. Names will be informed during the second announcement as well as mentioned on the BRAQCON 2019 website.

Farmers conclave 2019

'Aquaculture farmers conclave' would focus on ground level issues faced by brackishwater aquaculture farmers to consolidate and communicate their requirements to policy makers, researchers and ecosystem conservators for providing solutions for sustainable development of brackishwater aquaculture, coastal ecosystem, marketing and conservation.

Aquaculture start-up meeting

The session on brackishwater aquaculture startup is intended to provide fillip to young minds who dream to venture into aquaculture and allied sectors as entrepreneurs. Ideas, innovations and technologies developed by R & D labs with potential for commercialisation will be presented and deliberated during this session. Agricultural Business Incubator (ABI) of ICAR would be able to hand-hold and help the new entrepreneurs.

Who should attend?

BRAQCON 2019 is designed for farmers, academicians, scientists, researchers, students, entrepreneurs, business persons, policy makers and others engaged in endeavours related to education, research, business and entrepreneurship in brackishwater aquaculture, fisheries and ecosystem.

About the venue

Chennai, the capital city of the state of Tamil Nadu, is the largest metropolitan city in southern India and among the most visited Indian cities by domestic and overseas travellers/tourists. The city is located on the Coromandel Coast of the Bay of Bengal and is rated as the safest city in India. The city is known for its vast cultural heritage and has many eye catching sites to visit. Chennai is endowed with beautiful beaches like Marina, Elliots and Golden beach. Mahabalipuram, a UNESCO world heritage site is located just 60 km away. Tirupati, one of the holiest Hindu pilgrimage place most famous for Sri Venkateswara Temple, is situated 150 km from the city. The other major visiting places are Vandalur Zoo, Crocodile Park, Dakshin Chitra, Puducherry Aurobindo Ashram just to name a few. Besides, leading tourist attractions of South India such as Kerala backwaters and Munnar Hills, Kodaikanal, Ooty, Mysore, Hyderabad, Goa, Bengaluru and Mumbai are within two hours by air or overnight travel by train.

Registration

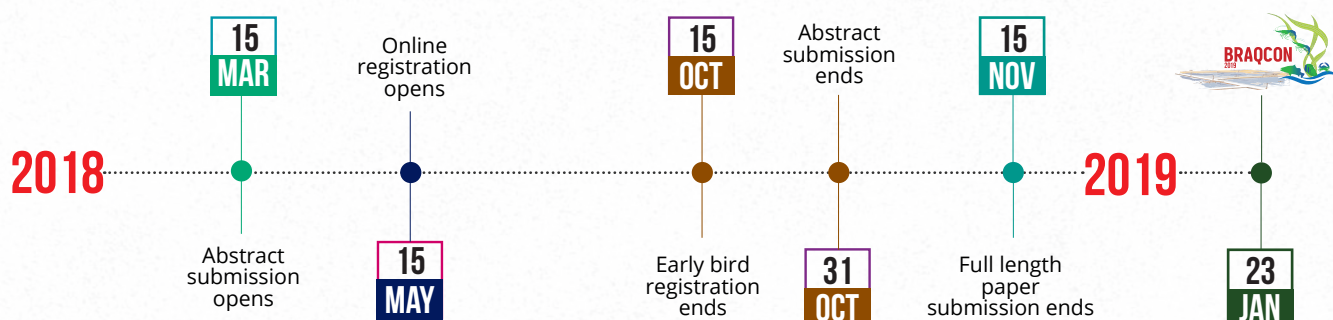
	National Participant	National Student Participant	Farmer Participant	International Participant
Early registration (Before 15 th Oct 2018)	₹ 8000	₹ 4000	₹ 4000	US\$ 120
Late registration (After 15 th Oct 2018)	₹ 9500	₹ 6000	₹ 5000	US\$ 150
Spot registration	₹ 11000	₹ 7000	₹ 6000	US\$ 200

Register through BRAQCON website

Mode of payment of registration fee

Details of payment will be mentioned in the next announcement.

Important dates





Submission of abstracts

We encourage authors to submit high quality abstracts for oral and poster presentations. All abstracts will be subjected to a blind peer review process and categorized for oral or poster presentation. However, authors can opt for poster presentations if they so desire. The abstract should be submitted online through the website, (<http://www.ciba.res.in/braqcon/>). Detailed guidelines for the preparation and submission of abstracts will be available on the conference website. At least one of the authors of the abstract must register for the conference before the deadline for considering the abstract. Upon payment of the registration fee, a confirmation email would be sent.

Full length paper

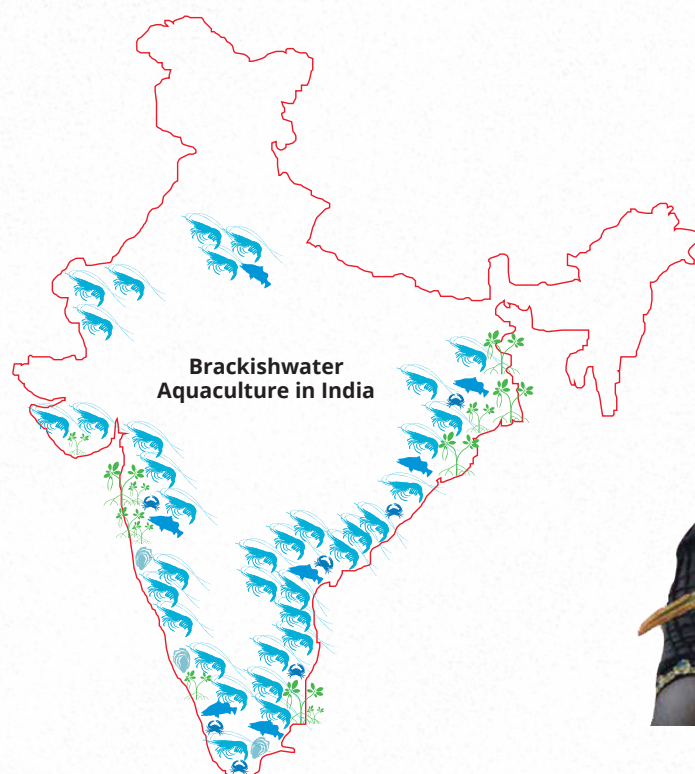
Authors interested to get their article published in the partnered journal (Journal of Coastal Research), can express their willingness during submission of abstract itself. In such case, the abstracts must be submitted well before the submission deadline to expedite the review process. Authors shall submit their full length research paper as per the journal format, to organizer_braqcon@ciba.res.in, which will undergo double-blind peer review before being considered for publication. Authors are requested to go through the guidelines (<http://www.bioone.org/page/coas/authors>) carefully and prepare their manuscripts accordingly.

Poster presentation

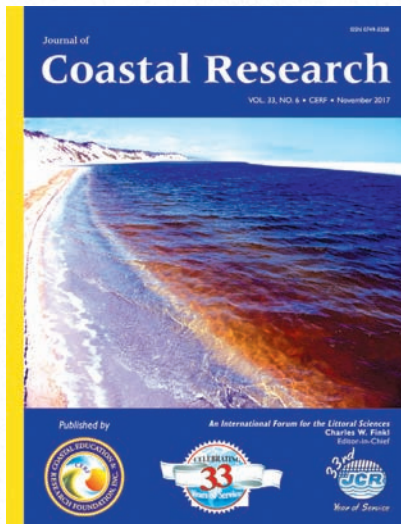
As the time for oral presentation is limited, we encourage researchers to submit their findings as posters on the above mentioned themes. The poster session is scheduled concurrently with other sessions in the conference program. Poster sessions are considered an important part of the conference, hence authors are encouraged to opt for the posters during the submission of abstract. Instructions for preparation of posters will be communicated later.

Awards

Best oral and poster presentations will be awarded with a cash prize and citation. Best oral presentations will be awarded in two categories: Young scientists (below 40 years) and Scientists (above 40 years) with a cash prize of Rs.10000. There will be a cash prize of Rs.5000 for commended poster presentation under each theme.



Yanadi tribal woman of Nagayalanka, Andhra Pradesh displaying farmed Mud Crab, *Scylla serrata*



Partnering Journal : Journal of Coastal Research

Impact factor: 0.915

NAAS score: 6.85

The selected research papers presented in this conference will be published in the peer reviewed Journal of Coastal Research, which is one of the leading international journals for coastal studies and process published by the Coastal Education & Research Foundation [CERF], USA.



Visa requirements

Overseas delegates who require Indian visa for participation are requested to contact the organizers in advance for guidance and invitation letter.

Post conference tour

We would like our delegates to soak in the diverse culture and spectacular land of this vibrant country. Post conference tours could be arranged to make a visit to Chennai and South India memorable. Interested delegates have to inform their plan well in advance.

Exhibition

An exhibition showcasing the recent developments, technologies and products in brackishwater aquaculture and fisheries will be held during the conference. Companies related to brackishwater and seafood industries, R&D institutions, Govt. bodies, self-help groups, manufacturers and distributors of equipment for Aquaculture and Fisheries, feed companies, specific pathogen free (SPF) broodstock suppliers, ornamental fish breeders, hatchery operators, sport fishing, ecotourism, fish processing machinery equipment traders, publishers of aquaculture and fisheries related literature, etc. can exhibit their products.

Organizers

Society of Coastal Aquaculture and Fisheries (SCAFi), Chennai, India

ICAR-Central Institute of Brackishwater Aquaculture, Chennai, India

Web site : <http://www.ciba.res.in/braqcon/>

Email : organizer_braqcon@ciba.res.in



Hatchery produced
juvenile milkfish,
Chanos chanos



ICAR CIBA

Headquarters of ICAR-CIBA, Santhome High Road, MRC Nagar, Chennai

About ICAR-CIBA

The Central Institute of Brackishwater Aquaculture (CIBA), an organization of International repute, has been at the forefront of developing brackishwater aquaculture in India. The headquarters of the Institute is located at Chennai with an Experimental Field Station at Muttukadu, about 35 km south of the city, a Regional Research Centre at Kakdwip (West Bengal) and an upcoming centre at Navasari (Gujarat). The Institute was established under the aegis of Indian Council of Agricultural Research (ICAR) in 1987 and over the last 30 years, the Institute has been playing a pivotal role in research and development in brackishwater aquaculture.

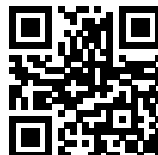
CIBA has world class facilities to carry out cutting edge research in the frontier areas of genetics and breeding, nutrition and feed technology, biotechnology, molecular biology, aquatic animal health, therapeutics and prophylactics, environmental and social sciences. Commendable progress has been made in multi-disciplinary areas of shellfish and finfish rearing (hatchery and farming) systems, broodstock development, induced maturation and spawning, live and formulated feed development, disease diagnostics and health management. Society of Coastal Aquaculture and Fisheries (SCAFi) based at Chennai works for the cause of fisheries and coastal aquaculture in the country.

Aerial view of CIBA's field centre at Muttukadu



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