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ASIANFISHERIES SOCIETY

e-Newsletter

MESSAGE FROM EDITOR

Dear Friends and Colleagues:

The Society has been active, as usual, during the period of report. Gender in Aquaculture and Fisheries (GAFS) Section has published the proceedings of the 9th Global Conference on Gender in Aquaculture and Fisheries held during 2025, with the title: Transforming Aquaculture and Fisheries for Gender Justice, summarising the collective effort of 192 delegates from 36 countries.

Another significant achievement has been that the suggestions of GAFS have been incorporated in the report of High Level Panel of Experts of Committee on World Food Security (HLPE-FSN) entitled "Sustainable Fisheries and Aquaculture for Food Security and Nutrition. The report can be downloaded from FAO website. Further, a special issue of Maritime Studies is being launched by GAFS.

Asian Fisheries Social Sciences Research Network (AFSSRN) has been involved in strengthening research capacity in social sciences research and during the period of report organised two training programs.

Conferences to look forward are the triennial conference of the Indian Branch of Asian Fisheries Society (14IFAF) being organised in collaboration of with other national institutions/ organisations scheduled for 18-20 November 2026 in Bubhaneswar, India with the theme " "Transforming Fisheries and Aquaculture: Bridging the Science and Society". Fish Health Section of AFS has scheduled its 13th Symposium on Diseases in Asian Aquaculture (DAA13) for 5-9 September 2028.

The Society will be happy to hear from the readers about their research outcomes, training programs, conferences, etc. to share with other readers of the Newsletter.

M. V. Gupta
Editor

Inside this issue:

Message From the President

Dear Members, Colleagues, and Friends,

Warm greetings from the Asian Fisheries Society!

As we move through the first half of 2026, I am pleased to reflect on the steady progress of our Society and the strong momentum of our collective work. AFS continues to serve as an important platform for knowledge exchange, partnership building, and leadership in advancing sustainable fisheries and aquaculture across Asia. This edition of our newsletter highlights several key activities and developments that have marked this reporting period. During this period, AFS remained actively engaged in major regional events. Building on the momentum of late 2025, I had the privilege of representing the Society at the Yangtze River Delta Fisheries Development Conference in Hefei, China, where I co-chaired the Plenary Invited Reports session and delivered a keynote presentation on artificial reproduction and larval rearing of eels. On 17 April 2026, I also represented AFS at the 10th China International Aquatic Science and Technology Conference in Chengdu, China.

During that event, I officially released the "2026 Top 100 China Aquatic Industry Brands" list, recognising one hundred enterprises for their contributions to innovation, green aquaculture, industrial upgrading, and rural revitalisation. The Society also made good progress in its internal coordination and major event preparations. The 15.3 Executive Committee Meeting was successfully convened virtually on 5 May 2026, providing an opportunity to review our priorities in member services, journal development, branch initiatives, and strategic planning. At the same time, AFS continued to work closely with Nha Trang University in preparation for the 8th International Symposium on Cage Aquaculture in Asia (CAA8). Joint coordination meetings were held on 9 March, 9 April, and 19 May 2026, with a further meeting scheduled for 30 June 2026. By May, CAA8 had attracted 105 abstracts and secured five confirmed sponsors, with the scientific programme and logistics progressing well.

Capacity building and institutional strengthening also remained important priorities. In June 2026, AFS once again served as a co-organiser of the Shanghai Summer School on Sustainable Aquaculture at Shanghai Ocean University, which brought together 23 participants from 17 countries. We also continued work on upgrading the AFS membership portal and journal platform, strengthening Asian Fisheries Science through new Editorial Board appointments, and preparing for the launch of a bimonthly AFS webinar series in June 2026. Progress is also being made toward establishment of the AFS Vietnam Branch, while the Nepal initiative, support for early career researchers, and development of the AFS Fellow category continue to move forward.

Looking ahead, CAA8 will be held from 16–18 July 2026 in Nha Trang, Vietnam. We also look forward to the continued growth of the AFS webinar series, further progress in branch development, DAA13 in Tokyo in September 2028, and the 15th Asian Fisheries and Aquaculture Forum in China in 2028.

The vitality of the Asian Fisheries Society stems from your engagement. Thank you for your continued support, and I encourage all members to remain active in our events, branches, and future initiatives.

GAF Section Business

The GAFS ExeComm held an online meeting on April 15, 2026 to discuss the business of the GAFS for the coming months.

Projects

GAFS-IDRC Project: The project "Making nature-based climate solutions (NbCS) in aquaculture in Southeast Asia monitoring more gender-responsive: What gets measured gets done" supported by IDRC Canada's AQUADAPT-SEAPAC grant is in progress. The project members presented the preliminary findings at the panel in GAF9 conference. The three project sites have completed several rounds of monitoring and organized stakeholder meetings. Despite the flood and storm in the pilot project area, the monitoring has shown greater engagement of women in nature-based aquaculture activities. The project has completed the monitoring in the pilot sites and currently working on developing a training manual and a second paper.

GAF9 Report - Transforming aquaculture and fisheries for gender justice

We are delighted to share with you the GAF9 Report: Transforming Aquaculture and Fisheries for Gender Justice. The report captures the highlights of the 9th Global Conference on Gender in Aquaculture and Fisheries (GAF9), held from 1–3 October 2025 at the Asian Institute of Technology, Thailand.

The report documents keynote addresses, thematic sessions, special sessions, field visits, and recognition events, showcasing the collective efforts of 192 delegates from 36 countries and 125 papers presented. It reflects the evolving scope of gender research in aquaculture and fisheries, including women's roles in the blue economy, climate change impacts, nature-based solutions, innovative methodologies, and the visibility of men's and women's work.

We invite you to read and share the report, which is now available on the GAFS website under the GAF9 Publications & Products page (https://genderaquafish.org/events/gaf9-publications-products.htm).

GAFS Contribution to the HLPE-FSN Consultation on Sustainable Fisheries and Aquaculture

The Gender in Aquaculture and Fisheries Section (GAFS) was honored with the opportunity to contribute to the HLPE-FSN Consultation on the Scope of the Report: Sustainable Fisheries and Aquaculture for Food Security and Nutrition. GAFS submission, included in the official proceedings (pages 320–367), brought forward a critical perspective: gender equity must be central to sustainable aquatic food systems.

This opportunity marked an important milestone for GAFS, as it allowed the network to bring gender issues directly into a high-level global consultation. For decades, women's roles in fisheries and aquaculture have been undervalued or overlooked in policy frameworks, despite their essential contributions to food security, nutrition, and community resilience. GAFS submission sought to correct this imbalance by presenting evidence, case studies, and recommendations that highlighted the indispensable role of women across the sector.

The submission emphasized that sustainability cannot be achieved without inclusivity. Women are involved in every stage of the fisheries and aquaculture value chain - harvesting, processing, marketing, and ensuring household nutrition. Yet their work is often unpaid, underpaid, or invisible in official statistics. GAFS argued that the HLPE-FSN report must recognize these realities and integrate gender equity as a cornerstone of sustainable food systems.

Key priorities outlined in GAFS submission included:

* Recognition of women's contributions: Making visible the unpaid and underpaid work of women in fisheries and aquaculture.
* Equitable access to resources and decision-making spaces: Ensuring women are not excluded from training, technology, or governance.
* Gender-disaggregated data collection: Calling for systematic data to measure and acknowledge women's roles.
* Safeguards against discrimination and exploitation: Strengthening protections for women in the sector.

Beyond technical recommendations, GAFS submission carried the voices of communities worldwide. It shared stories of women balancing fishing livelihoods with caregiving responsibilities, young researchers advancing inclusive methodologies, and leaders advocating for fairer governance of aquatic resources. These narratives reinforced the message that sustainability is not only about ecological balance and productivity, but also about people and justice.

The opportunity to contribute to the HLPE-FSN consultation also demonstrated the growing recognition of gender research in global food system dialogues. By engaging in this process, GAFS ensured that gender perspectives were woven into the discourse on sustainable fisheries and aquaculture. Their input strengthened the consultation by broadening its scope to include social justice, equity, and human rights alongside ecological and economic considerations.

Ultimately, GAFS submission affirmed that gender equity is not an optional consideration, but a fundamental requirement for achieving food security and nutrition worldwide. Sustainable aquatic food systems must be inclusive, fair, and representative of all those who contribute to them. Through this engagement, GAFS advanced its mission of making women's roles visible, valued, and central to the future of fisheries and aquaculture.

The report can be accessed online through the link:
https://www.fao.org/media/docs/devhlpelibraries/report-22/hlpe22_proceeding.pdf?sfvrsn=b7ecce5f_4

GAF9 Special Issue in Maritime Studies

In continuation of the tradition established at previous GAF conferences, we are pleased to announce that a Special Issue of Maritime Studies will be launched based on GAF9. This forthcoming issue will build upon the landmark gender-focused editions published in 2018 and 2019, and will extend the discourse to address contemporary challenges and opportunities.

This special issue proposes to give focus on:

- Gender justice – focus on women's rights in fisheries amid various governance and conflicts
- Food security – gendered impacts and roles, how food systems are affected/ upgraded through gender power relations Gendered impact of blue economy approaches, including through technology and financing
- Gendered impact of climate change and nature-based solutions
- Intrahousehold gender relations in fishing households, focusing on unpaid care work
- Gender identity and expressions in fisheries
- Methodology – how to capture gender relations changes

10th Global Conference on Gender in Aquaculture and Fisheries - Call for Applications to Host GAF10 in 2028

The Gender in Aquaculture and Fisheries Section of the Asian Fisheries Society (GAFS, AFS) is seeking bids by 30 June 2026 from research, academic or other suitable organisations wishing to host the 10th Global Conference on Gender in Aquaculture and Fisheries (GAF10). For GAF10, we require a safe, convenient, cost-effective venue and capable organising partner or partners. The hosts will be actively assisted by a formal conference committee structure with responsibilities for the program, awards, publications, communications, etc. The hosts are expected to be members of GAFS and AFS, with experience of attending previous GAF conferences/symposia of AFS. GAFS is a very active Section of the Asian Fisheries Society with a long standing record of organising GAF events regularly and bringing out products from the Conference which have benefitted researchers, academics, students and policy makers. The GAF Conference host will be duly recognised in the GAFS and Conference websites, and all Conference related publications. The host organisation/institution may also partner with GAFS in future activities like projects, publications etc. as appropriate.

Our objectives for the successful hosting of GAF10 are:

- An amenable venue for the Conference enabling participants to exchange ideas, present their work and hear the work of others in a comfortable, convenient and safe environment.
- Reasonable conference fees and other costs (accommodation) that makes participation affordable to participants from a wide range of countries.
- A smoothly and well conducted Conference that is participant-friendly, including for family and friends who may accompany the participants.
- The GAF10 partner(s) of GAFS and the host venue and location create an attractive combination for attracting sponsorship and raising funds.
- Reasonable Conference running costs so that financial objectives are covered, including all Conference costs, fulfilling GAFS and host partner targets for institutional needs over and above the costs of running the Conference.

The Executive Committee of the GAFS will make the selection of the host organisation. The host organiser will be expected to sign a formal contract with GAFS over the management of GAF10 including the responsibilities for financial matters.

We welcome your applications to make GAF10 a great success. For more information or if you have questions, please send an email to gafsconference@gmail.com by 15 May 2026.
In your application, please address the criteria provided and forward it to GAFS-GAF10 at the following address: gafsconference@gmail.com. Closing date 30 June 2026.

GAFS Communications

GAFS continues to be very active in its outreach, through its website, its GAFS members e-mail group, Genderaquafish e-mail group and social media outlets (Twitter and Facebook). GAFS members are receiving a monthly premium news service on GAF news items.

Here are the latest stories from our website https://genderaquafish.org/stories.htm

- "The women of the Pulo Island Barangays- Concepcion, Iloilo, Region 6, Philippines" by Julie Ann Claire Nedula Nique and Liz Drury O'Neill, posted on 15 January, 2026 Link
- "Researchers Map Path Forward for Gender-inclusive Fisheries Data" by Jane Deacon, posted on 16 January, 2026 Link
- "GAFS Contribution to the HLPE-FSN Consultation on Sustainable Fisheries and Aquaculture" posted on 16 June, 2026 Link

Keep in touch with GAF Website: https://www.genderaquafish.org/; https://www.genderequality.genderaquafish.org/

Facebook Page: https://www.facebook.com/AFS-Gender-in-Aquaculture-and-Fisheries181176555231544/

Twitter: @Genderaquafish https://twitter.com/Genderaquafish

Contributed by: Kyoko Kusakabe, Chair, Arlene Nietes Satapornvanit, Vice-Chair, Nikita Gopal, Past - Chair and Kafayat Fakoya, Secretary GAFS Executive Committee

AFS SECTIONS

Fish Health Section (FHS)

We are pleased to announce that 13th Symposium on Diseases in Asian Aquaculture (DAA13) in Tokyo, Japan will be held on 5th-9th September 2028. The main venue, Tokyo International Exchange Center, Plaza Heisei, is a convention center located on the Tokyo Bay waterfront with excellent accessibility. The main hall features a total of 479 seats spread across the first (279 seats) and second (200 seats) floors with a traditional theater style. Please keep your schedule open. We are looking forward to seeing you all at the wonderful venue.

Tokyo International Exchange Center, Plaza Heisei

The Main Hall

AFSSRN launches Online Training Programme Series

The Asian Fisheries Social Science Research Network (AFSSRN) of the Asian Fisheries Society, successfully launched the online training programme during May 2026 with the objective of strengthening research capacity in fisheries social science and quantitative analysis among students, researchers, and professionals.

Two programmes were conducted and these attracted considerable international participation, with a total of 87 registrations from five countries. Participants included 36 from India, 27 from the Philippines, 22 from Indonesia, 1 from Pakistan, and 1 from West Africa, reflecting the growing regional interest in fisheries social science research and analytical methods.

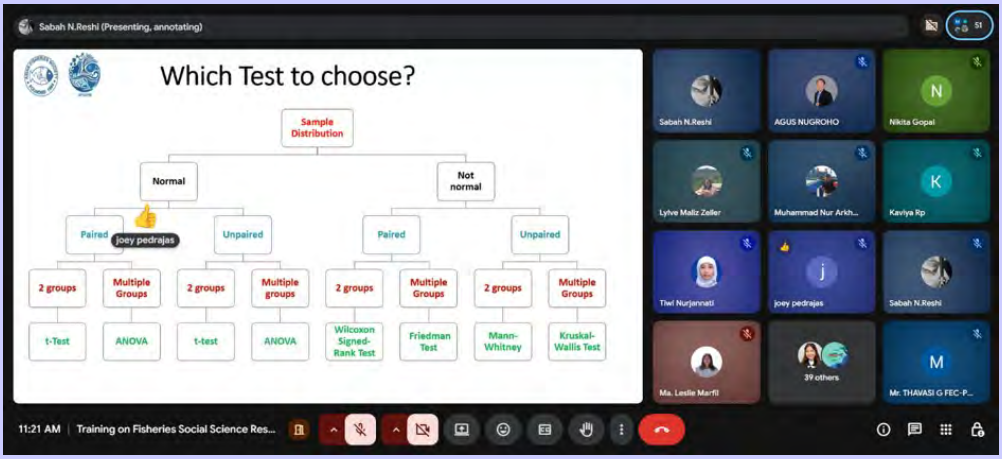
The first training session, titled "Parametric Tests and Their Counterparts: Theory and Application in Fisheries Research," was delivered by Dr. Saba Nabi, Assistant Professor, College of Fisheries, Kishanganj, on 22 May 2026. The session provided participants with a comprehensive understanding of statistical tests commonly used in fisheries research, along with their practical applications. A total of 55 participants attended the session.

The second training session, "Qualitative Research Tools for Fisheries Social Science," was conducted by Dr. Piyashi Debroy, Senior Scientist, ICAR-CIFRI, West Bengal, on 18 June 2026. The session focused on qualitative research methodologies, data collection techniques, and analytical tools relevant to fisheries social science research. This session was attended by 35 participants.

Both programmes incorporated theoretical presentations and practical demonstrations, enabling participants to gain hands-on exposure to research tools and analytical techniques. The interactive format encouraged active participation, discussion, and clarification of research-related queries.

A structured feedback was also taken from participants to improve future editions. Approximately 60% of the respondents rated the training as "Excellent," while the remaining 40% rated it as "Good." Participants particularly appreciated the practical orientation of the sessions and the expertise of the resource persons. Many participants expressed interest in attending additional training programmes of a similar nature and suggested conducting longer and more frequent sessions. Several respondents also recommended expanding the hands-on components to provide deeper practical experience.

Overall, the training programme series successfully enhanced participants' knowledge and skills in both quantitative and qualitative research approaches and contributed to capacity building in fisheries social science research across the region. The positive feedback and strong international participation underscore the relevance and impact of such initiatives and highlight the need for continued professional development programmes in this field.



Sesssion1

Session 2

Contributed by: Neha W Qureshi, Secretary, AFSSRN & Nikita Gopal, Chair, AFSSRN

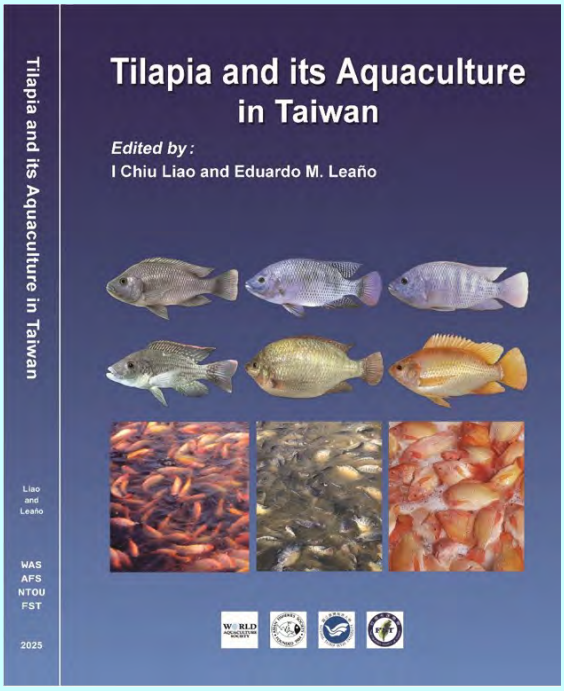
AFS BRANCHES

Asian Fisheries Society Taiwan Branch (AFSTB)

The Taiwan branch (AFS-TB) was the Society's first branch, founded in September 1985, at the Institute of Fisheries Sciences, National Taiwan University. The branch presently has very sound financial and until now has 32 members, of them 17 Full/PAM members.

Academic actives

Book: The latest scientific publication is the book edited by Dr. I Chiu Liao and Dr. Eduardo M. Leaño and published jointly by National Taiwan Ocean University, The Fisheries Society of Taiwan, Asian Fisheries Society and World Aquaculture Society. It is entitled: Tilapia and its Aquaculture in Taiwan (2025, ISBN 978-626-98714-4-5).



Symposium: The Taiwan Fisheries Society annual meeting was held at the National Kaohsiung University of Science and Technology on January 10, 2026. The meeting brought together about 500 fisheries and aquaculture scientists, farmer and key commercial workers in Taiwan, and published 369 reports including 2 keynote speeches, 149 oral presentations and 218 posters. Two keynote speakers were Prof. Nobuyuki Yogi from the University of Tokyo and Prof. Atsushi Hagiwara from the University of Nagasaki, Japan.

The Fisheries Society of Taiwan (FST) organized a delegation of 11 faculty members from four Taiwanese universities. Led by Chair Professor of Academia Sinica Jen-Leih Wu, the delegation visited Pukyong National University (PKNU) in Busan, Korea, and participated in the 2026 Annual Spring Conference of the Korean Society of Fisheries and Aquatic Sciences (KOSFAS), fostering academic exchange and collaboration between the fisheries communities of Taiwan and Korea. Prof. Jen-Leih Wu delivered a keynote speech entitled "Development and Current Status of Aquaculture Biotechnology in Taiwan." In addition, members of the Asian Fisheries Society-Taiwan Branch, including Prof. Hong-Yi Gong, Prof. Li-Li Chen, and Prof. Han-You Lin, were invited to attend the conference and present their latest research findings.

Future Work

The Fisheries Society of Taiwan (FST) plans to hold the International Symposium on Sustainable Fisheries and Innovative Marine Biotechnology with its 2027 Annual Meeting. The Society intends to invite representatives from the Japanese Society of Fisheries Science, the Korean Society of Fisheries and Aquatic Sciences, the Fisheries Society of the British Isles, and the American Fisheries Society to participate in this event. Dr. Yu-Hung Lin, Councilor of the AFS and Deputy Secretary-General of FST, has proposed extending an invitation to the AFS to join this meeting. He hopes to formally present this invitation during the AFS Council meeting to be held in Nha Trang, Vietnam, later this year.

14th Indian Fisheries & Aquaculture Forum

The 14th Indian Fisheries & Aquaculture Forum (14IFAF) will be organised from 18 to 20 November 2026 at the ICAR-Central Institute of Freshwater Aquaculture (ICAR-CIFA), Bhubaneswar. Guided by the theme "Transforming Fisheries and Aquaculture: Bridging the Science and Society," it will provide a national platform for scientific exchange, stakeholder engagement and strategic deliberation on the future of the sector. Fisheries and aquaculture contribute substantially to food and nutritional security, employment, exports and rural livelihoods. Yet climate variability, water stress, aquatic animal diseases, habitat degradation, biodiversity concerns, rising production costs and stricter quality and traceability requirements demand a more integrated response. Future progress must combine productivity with sustainability, resilience, innovation and inclusion.

The triennial Forum, is jointly being organised by the Asian Fisheries Society Indian Branch, ICAR-CIFA, the Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India; the National Fisheries Development Board; the Fisheries & Animal Resources Development Department, Government of Odisha; and the Association of Aquaculturists, Bhubaneswar. This partnership brings scientific, professional, policy, development and stakeholder perspectives onto a common platform. It will encourage knowledge exchange, presentation of innovations and partnerships capable of translating research into practical benefits for producers and society.

The programme covers sustainable fisheries management; aquatic biodiversity and genetic resources; climate-change adaptation; aquaculture diversification; fish breeding; biotechnology and bioinformatics; precision farming, automation and digital innovation; aquatic animal health, antimicrobial resistance and biosecurity; next-generation feeds; post-harvest processing, value addition and waste utilisation; fisheries economics, extension, gender, marketing, cooperatives, education, policy and governance. Satellite symposia and conclaves will address regional partnerships for sustainable fisheries; exports, digital trade, traceability and e-commerce; artificial intelligence, machine learning and the Internet of Things; and a PMMSY Industry–Farmers–Scientists Conclave. The programme thus spans the entire value chain—from aquatic resources and production to processing, markets, institutions and consumers.

Researchers, students and professionals may submit original, data-driven abstracts of up to 350 words through the official website. Abstract submission closes on 31 August 2026, and acceptance will be notified by 15 September. Awards will recognise young scientists, aquaculture professionals, extension practitioners, innovative fish farmers, and the best oral and poster presentations. A parallel exhibition will enable ICAR institutes, government departments, start-ups, nongovernmental organisations and private industries to showcase technologies, products and services. More than 1,000 stakeholders are expected to connect through the Forum, strengthening research–extension–industry linkages and accelerating the translation of innovation into meaningful outcomes.

Researchers, students, professionals, policymakers, entrepreneurs, industries, development agencies and fish farmers are invited to participate and help shape a sustainable, resilient and inclusive future for Indian fisheries and aquaculture.

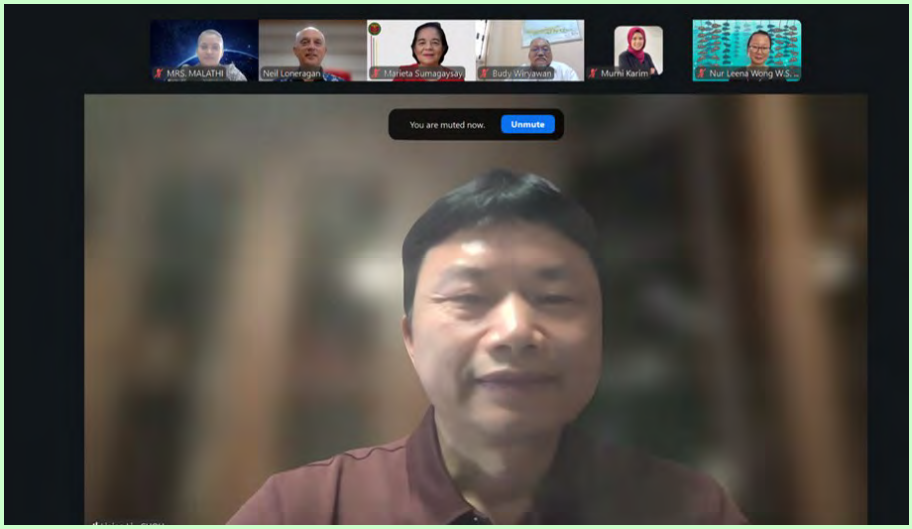
For registration visit : www.14ifaf.
For additional details please contact Convenor : Dr P.K. Sahoo at 14ifafcifa@gmail.com;
Phone: 91-674-2465421

Contributed by Dr P.K. Sahoo, Director, ICAR-CIFA

AFS SECRETARIAT NEWS

1.0 AFS Execomm Meeting (15.3)

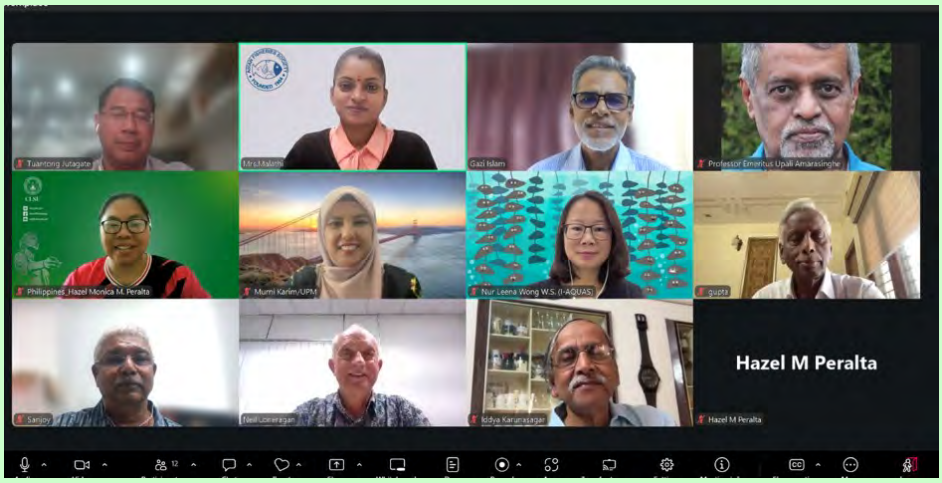
Asian Fisheries Society (AFS) Execomm meeting was held on Tuesday, 5 May 2026 using an online platform. There is presence of the Prof. Liping Liu, Prof. Neil Loneragan, Prof. Budy Wiryawan, Prof. Marieta Sumagaysay, Dr. Nur Leena Wong Wai Sin, Prof. Murni Marlina Abd Karim and Mrs. Malathi Thanamsegaram (EO) joined this online meeting.



1.1 AFS Editorial Board Members Meeting

Participants: Prof Neil Loneragan, Prof Upali S. Amarasinghe, Dr M. Vijay Gupta, Prof Gazi Md Nurul Islam, Prof Tuantong Jutagate, Prof Murni Karim, Dr Iddya Karunasagar, Dr Hazel Monica Matias-Peralta, Dr. Nur Leena Wong Wai Sin, Dr Sanjoy Banerjee and Mrs.Malathi.

It was a highly productive session covering a range of key areas, including the journal's current standing, website developments, and proposals for a special issue to mark our 40th year of publication in 2027.



2.0 Membership

AFS encourages members to renew and to be Permanent Active Members (PAM). There is notice has been added to the AFS mailing list for renewal.

3.0 AFS new website

Website Development and Membership Portal Upgrades

Several consultation meetings have been held with the Website Committee, led by Prof. Neil Loneragan, with technical guidance from Dr. David, and active support from Dr. Sanjoy, Mrs. Malathi, and Mrs. Maisirah. The Asian Fisheries Society (AFS) website is currently undergoing significant upgrades, focusing primarily on the journal system and the AFS Membership Portal. Dr. David and his team are actively revamping the portal to introduce advanced features designed to streamline membership management, simplify the fee payment process, and enhance the overall user experience for our members.

The development and migration processes are well underway. The upgraded portal is expected to be fully operational by the end of June 2026, ahead of the 8th International Symposium on Cage Aquaculture in Asia (CAA8).

4.0 AFS Publication

The Journal has consistently published four issues annually (March, June, September, and December), maintaining a regular publication schedule. A total of 24 articles were published in 2025. The March 2026 issue had 6 articles. The June 2026 issue is in progress. About 6-7 papers will be uploaded.

Based on SCIMAGO, Asian Fisheries Science was ranked as a Q3 journal in Aquatic Sciences, Ecology and Food Nutrition in 2023 and 2024. At the end of 2025, our ranking was maintained in Food Nutrition but declined to Q4 in Aquatic Sciences and Ecology.

Some of the other issues faced by the journal are difficulty in obtaining reviewers and the level of AI being detected in some manuscripts, particularly review articles. Authors are now asked to submit a statement on their use of AI, which is highlighted on the home page of the journal web site (https://www.asianfisheriessociety.org/publication/).

5.0 Upcoming Events

The Eight International Symposium on Cage Aquaculture in Asia - CAA8 will be held in July 16-18, 2026 in Nha Trang University, Viet Nam .

AFS MEMBERSHIP RENEWAL NOTICE

Dear AFS Members:

Thank you all AFS Members for your ongoing commitment and support towards the Society!

The Secretariat has started to update the Members details in database.

Therefore, the Secretariat requests all AFS members to update their membership dues and contact information, to the Secretariat via email at **info@asianfisheriessociety.org.**

Kindly renew your membership dues using online payment system at

http://www.asianfisheriessociety.org/join.php

or you may also request the membership form from Secretariat via

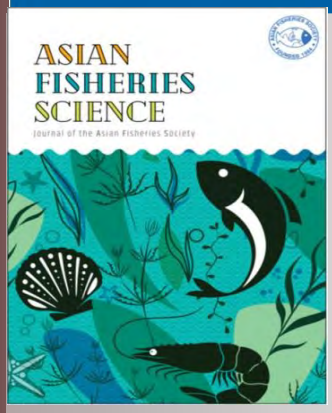
info@asianfisheriessociety.org.

Membership is open for all!

Please apply for membership at
http://www.asianfisheriessociety.org/join.php.

If you have any question, kindly email us at
info@asianfisheriessociety.org

SYNOPSIS OF PAPERS VOLUME 39 (ISSUE 1) : ASIAN FISHERIES SCIENCE JOURNAL



Latest Articles
Asian Fisheries Science 39 (1) 2026

E-ISSN: 2073-3720

Growth, Survival and Cost-Efficiency of Mangrove Red Snapper Lutjanus argentimaculatus (Forsskål, 1775) Reared in Freshwater Lake Net Cages

FREDERICK BUENSALIDA MUYOT, MARIA THERESA M. MUTIA

https://doi.org/10.33997/j.afs.2026.39.1.001

This study evaluated the growth performance and economic feasibility of rearing mangrove red snapper in freshwater lake net cages using either trash fish or commercial pellets as feed. Fish fed trash fish showed better growth and higher weight gain than those fed commercial pellets, while survival remained high and similar in both treatments. Although trash fish resulted in a poorer feed conversion ratio, it generated higher sales, profits, return on investment, and a shorter payback period. The findings demonstrate that mangrove red snapper can be successfully cultured in freshwater cages, with trash fish providing the most economically advantageous feeding strategy.

Abandoned, Lost or Otherwise Discarded Fishing Gear in Coastal and Marine Areas of Selected South-east Asian Countries: A Status Update and Recommendations

WATCHARAPONG CHUMCHUEN, EKO PRASETYO BUDI, HEMALATHA RAJA SEKARAN, SHIELA VILLAMOR CHUMCHUEN

https://doi.org/10.33997/j.afs.2026.39.1.002

The paper reviewed the status of abandoned, lost, or otherwise discarded fishing gear (ALDFG) in Cambodia, Indonesia, Malaysia, the Philippines, and Thailand. Common forms of ALDFG included gillnets, traps, hooks and lines, with additional contributions from fish aggregating devices, trawl nets, and gear components. The impacts of ALDFG were classified as ecological, economic, and social. Although various national, regional, and international initiatives exist to address the issue, major challenges remain, including limited baseline data, weak retrieval programs, and inadequate end-of-life gear management. The study proposes recommendations to strengthen regional efforts and support sustainable fisheries management in Southeast Asia.

Shrimp Fishery in the Jaffna Lagoon, Sri Lanka: Ten Years After the Conflict
N. RAGAVAN, SIVASHANTHINI KUGANATHAN, D.C.T. DISSANAYAKE
https://doi.org/10.33997/j.afs.2026.39.1.003

The status of shrimp fisheries in the Jaffna Lagoon a decade after the civil conflict was assessed. Shrimp fishing supported thousands of fishers and relied mainly on fyke nets and lagoon seine nets, with the latter producing higher catch rates. Shrimp landings remained relatively stable across the two study years. Fifteen shrimp species were recorded, including several newly reported species, with a few dominant species contributing most of the catch. A diverse bycatch community was also documented. Spatial patterns showed decreasing shrimp abundance but larger shrimp sizes farther from the lagoon mouth. The study highlights heavy fishing pressure on juvenile shrimp and emphasizes the need for sustainable fishery management measures.

Improvement of Seagrass Habitat Mapping Using Integration of Habitat Suitability Model and Seafloor Classification Map
MUHAMMAD ABDUL HAKIM MUHAMAD, ROZAIMI CHE HASAN, NAJHAN MD SAID, KHAIRA ISMAIL, AZIZI ALI, MOHD SHAHMY MOHD SAID, RAIZ RAZALI
https://doi.org/10.33997/j.afs.2026.39.1.004

This research developed an integrated method for improving seagrass habitat mapping by combining habitat suitability modelling with seafloor classification. Using multibeam echosounder acoustic data from Redang Marine Park, habitat suitability was predicted through a maximum entropy model, while seafloor features were classified using a random forest algorithm. The integration of habitat suitability, seafloor characteristics, and depth information produced a more detailed representation of seagrass distribution and surrounding seascapes. The resulting maps provide valuable information for marine resource managers and can support more effective conservation and management of seagrass habitats.

Genetic Exploration of the Indonesian Indigenous Silver Tigerfish Datnioides polota (Hamilton, 1822)
ERMA PRIMANITA HAYUNINGTYAS, KHAIRUL SYAHPUTRA, ASTARI DWIRANTI, HURIA MARNIS, RUDHY GUSTIANO, MOCHAMMAD ZAMRONI, RETNO LESTARI, FADHILLAH FADHILLAH, ABINAWANTO ABINAWANTO
https://doi.org/10.33997/j.afs.2026.39.1.005

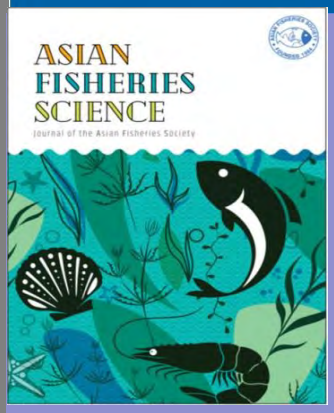
The paper examines the current state of knowledge on the Indonesian silver tigerfish, an ornamental species native to parts of South and Southeast Asia. While previous studies have mainly focused on its ecology and reproductive biology, information on its genetic and phenotypic characteristics remains limited. The paper discusses approaches for characterising the species through morphometric, meristic, and molecular techniques, including DNA-based methods and genome sequencing. As existing genetic information is largely confined to mitochondrial data, the review identifies significant research gaps and highlights the need for further genetic studies to support biodiversity conservation and sustainable management of the species.

Restoring Ecological Harmony: The Transition From African Magur to Indigenous Fish Farming in Kheyadaha Wetland, India
SWAGAT GHOSH, ANJU P., RAJIB PATTANAYAK

https://doi.org/10.33997/j.afs.2026.39.1.006

Efforts to restore biodiversity and improve livelihoods in Kheyadaha Wetland by replacing invasive alien fish farming with indigenous fish culture was examined. Surveys identified several invasive fish species that were negatively affecting native biodiversity through competition and predation. The project encouraged farmers to adopt sustainable aquaculture practices focused on indigenous species, supported by affordable feed production, value-added products, market access, training, and awareness programs. These interventions improved farmer incomes, strengthened community participation, and enhanced ecological conservation. The study demonstrates how community-based, science-driven approaches can effectively manage invasive species while promoting sustainable livelihoods and wetland conservation.

SYNOPSIS OF PAPERS VOLUME 39 (ISSUE 2) : ASIAN FISHERIES SCIENCE JOURNAL



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Optimisation of Protease Hydrolysis Conditions for ACE-Inhibitory Peptide Extraction From Sandbar Shark (Carcharhinus plumbeus) Muscle

ASAMI IKEDA, TSUGUNORI MAEKAWA, KAZUHIRO SHIOZAKI

https://doi.org/10.33997/j.afs.2026.39.2.001

This study evaluated sandbar shark muscle as a potential functional food ingredient and alternative protein source, particularly for older adults. Different food-grade proteases were tested to produce angiotensin-converting enzyme (ACE)-inhibitory peptides. Among the enzymes examined, Thermoase PC10F provided the most effective hydrolysis conditions, producing strong ACE inhibition with reduced bitterness. Peptide fractionation identified several bioactive compounds, with Ala-Phe showing the strongest ACE-inhibitory activity through a non-competitive inhibition mechanism. The findings suggest that sandbar shark muscle hydrolysates could be developed as functional foods with antihypertensive benefits while supporting sustainable use of marine resources.

Potential of Sustainable Aquaculture to Overcome the Declining Fishery Resources in Malaysian Waters

JOO JIE CHING, NUR ILIYANA NAZIRAH ZULKIFLI

https://doi.org/10.33997/j.afs.2026.39.2.002

The review examines how sustainable aquaculture can help address the decline of fishery resources in Malaysia caused by overfishing, climate change, habitat degradation, and poor water quality. It highlights Malaysia's existing strengths, including aquaculture zoning, wastewater management policies, established farming practices, and ongoing research initiatives. However, challenges such as inadequate biosecurity, limited space, dependence on resources, and slow technological adoption continue to hinder industry growth. The review emphasizes the need for stronger biosecurity measures, improved feed management, and greater investment in research and technological innovation. Adopting these measures could enhance productivity, reduce pressure on wild fish stocks, and support the long-term sustainability of Malaysia's aquaculture sector.

The Importance of Biodiversity Monitoring in Indonesia's National Priority Lakes: An Environmental DNA in Lake Rawa Pening

DWI SENDI PRIYONO, HAPIZ AL KHAIRI, ANDARI SEKARNINGRUM, CALVIN MULIAWAN, TUTY ARISURYANTI, AKBAR REZA

https://doi.org/10.33997/j.afs.2026.39.2.003

Environmental DNA (eDNA) sequencing was used to assess fish biodiversity in Lake Rawa Pening, one of Indonesia's national priority lakes. The analysis revealed a diverse fish community consisting of numerous taxa, with Cypriniformes being the dominant group. Several species were identified as particularly abundant, and the biodiversity patterns were highly similar across sampling sites. While native species formed the majority of detections, a substantial proportion consisted of introduced species, including invasive fishes. The prominence of invasive species highlights the need for targeted conservation and management strategies. The study demonstrates the value of eDNA as a monitoring tool and recommends biodiversity assessments in other priority lakes to support ecosystem health and resilience.

Diet Spectrum and Microplastic Presence in the Gut Contents of Invasive Guppy, Poecilia reticulata (Peters, 1859), in the Southern Western Ghats, India

SUVARNA D. DEVI, ARCHANA D. SATHEESH, SMRITHY RAJ, APPUKUTTANNAIR BIJU KUMAR

https://doi.org/10.33997/j.afs.2026.39.2.004

This study investigated the feeding ecology and microplastic ingestion of invasive guppies in the Southern Western Ghats of India. The guppies exhibited an omnivorous feeding pattern, consuming mainly midge fly larvae and algae, along with insects, detritus, zooplankton, and other materials. Most individuals showed moderate to high feeding intensity, indicating successful adaptation to local food resources. Microplastics, primarily synthetic fibres, were also detected in their digestive tracts, and evidence of degradation was observed. These findings highlight the ecological adaptability of invasive guppies and raise concerns about the spread of microplastic pollution through freshwater ecosystems. The study calls for further investigation into their ecological impacts on native biodiversity.

A Systematic Literature Review of Technical Efficiency Analysis in Fisheries – Focus on Estimation Methods, Determinants, and the Subsidy-Efficiency Nexus

DINA LIANITA SARI, LE KIM LONG, CLAIRE W. ARMSTRONG

https://doi.org/10.33997/j.afs.2026.39.2.005

The systematic review examined studies on technical efficiency (TE) in fisheries, focusing on analytical methods, determinants of efficiency, and the role of subsidies. Most studies employed stochastic frontier analysis, while others used data envelopment analysis. Common determinants of efficiency included the characteristics and experience of fishers, as well as vessel and gear attributes. Although relatively few studies assessed subsidies, the available evidence suggested that subsidies tend to improve efficiency. The review highlights methodological limitations in existing research and recommends the use of advanced analytical approaches that better account for external influences and outliers. It also emphasizes the need to examine efficiency changes over time, as subsidies may initially support productivity but can contribute to overfishing and stock depletion, ultimately reducing long-term efficiency. Future research should explore how different types of subsidies affect fisheries efficiency to support more effective policy decisions.

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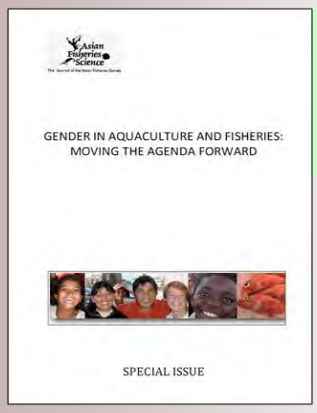

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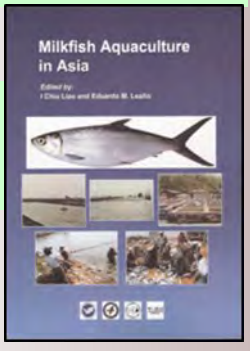

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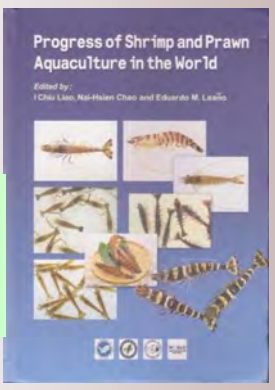

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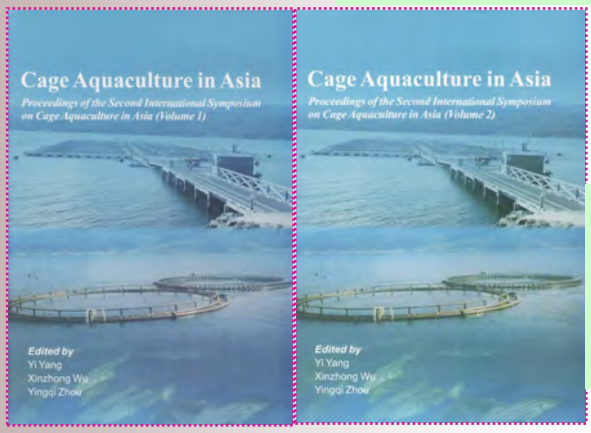

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