



**3<sup>rd</sup> World Small-Scale Fisheries Congress**  
**Chiang Mai, Thailand | October 22-26, 2018**

# **CONGRESS PROGRAM**

**TRANSDISCIPLINARITY  
& TRANSFORMATION  
FOR THE FUTURE OF  
SMALL-SCALE FISHERIES**





Transdisciplinarity and Transformation  
for the Future of Small-Scale Fisheries

Day	Theme	8.30-10.00	10.30-12.00	13.00-15.00	15.30-17.30	Evening
Monday Oct 22	Science Day	<b>Plenary # 1</b> Setting-the-Stage	<b>Plenary # 2</b> Emerging leading scholars	Science Café and Special Sessions	<b>Concurrent Session # 1</b>	<b>Opening reception</b> 'The Northern Hospitality' @ 18:30
Tuesday Oct 23	Community Day	<b>Plenary # 3</b> Role of communities, knowledge and information in sustainable small-scale fisheries	<b>Plenary # 4</b> The future of small-scale fisheries from the communities perspectives	Fishers Talk Circles and Special Sessions	<b>Concurrent Session # 2</b>	<b>Cultural show</b> @17:30-19:00
Wednesday Oct 24	Policy Day	<b>Plenary # 5</b> Walk-the-Talk in small-scale fisheries governance	<b>Plenary # 6</b> Informing and influencing fisheries policies	<b>Concurrent Session # 3</b>	<b>Concurrent Session # 4</b>	<b>Free time</b>
Thursday Oct 25	Field Day	Field excursion - Kwan Phayao ( <i>optional</i> )				
Friday Oct 26	Action Day	<b>Concurrent Session # 5</b>	<b>Regional roundtables</b>	<b>Plenary Session # 7</b> Regional report back and drawing roadmaps	<b>Plenary Session # 8</b> Ways forward	<b>Kantoke dinner at Old Chiang Mai Cultural Center</b> @17:30-21:30

## Table of Contents

Message from congress co-chairs.....	3
General information.....	5
About the congress program.....	11
Congress program summary.....	12
➤ Monday	12
➤ Tuesday	30
➤ Wednesday	43
➤ Thursday + Friday	57
Congress committees.....	63
Area map.....	64
Floor plan.....	65
Acknowledgments.....	66

## **Message from Congress Co-Chairs**

Chiang Mai, Thailand  
October 2018

Dear Congress Participants,

It felt like it was a little while ago that we gathered in Merida at the 2<sup>nd</sup> World Small-Scale Fisheries Congress in 2014. Many things happened in the past four years. The Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication (SSF Guidelines) were launched that year and we, the research and practitioner communities, along with fishers and civil society organizations participating the Merida Congress, had an opportunity to provide early inputs about the implementation of this very important instrument. In 2015, the Sustainable Development Goals (SDGs) were rolled out, with the first Ocean Conference held in 2017 in New York. Many of us were there to make sure that the discussion about ocean sustainability paid due attention to small-scale fisheries beyond Target 14b, which focuses on securing access to resources and markets for small-scale fisheries.

Knowledge production and mobilization was another big theme. Many papers, reports and documents have been produced to address big questions in small-scale fisheries from a wide range of disciplines, as well as from multi-, inter- and transdisciplinary perspectives. New lines of inquiries, new ways to frame research methods, new approaches and tools, and new thinking in governance are all part of the exciting efforts to enhance understanding about small-scale fisheries and to achieve small-scale fisheries sustainability. Never before had we seen a surge of interests in small-scale fisheries, and it is not only from researchers, practitioners, civil society, fisher groups, and environmental organizations, but also from national, regional and intergovernmental governing bodies, as well as funders and philanthropies. The time is certainly ripe for the conversation about innovation and transformation in research, training, community engagement and governance for sustainable small-scale fisheries, which is the main theme of the 3<sup>rd</sup> congress.

While more spotlights have been shined on small-scale fisheries, one particular sector remains under-explored. Inland fisheries are almost entirely small-scale, and the Global Conference on Inland Fisheries, held in January 2015 in Rome, was a great starting point in elevating the profile of inland small-scale fisheries. More needs to be done to bring up the level of understanding about this sector in par with its marine and brackish water small-scale fisheries counterpart, and then together, the entire small-scale fisheries will gain the visibility and the recognition they deserve. Hosting the 3<sup>rd</sup> World Small-Scale Fisheries Congress in northern Thailand, in the Province of Chiang Mai, and bringing congress participants to a small freshwater lake in Phayao some 150 km away during the one-day excursion, is ambitious but certainly worthwhile.

Gathering at the 3<sup>rd</sup> World Small-Scale Fisheries Congress are 350 participants from 55 countries, who are contributing to the conversation about small-scale

fisheries through oral and poster presentations, interactive sessions, panel discussion, science café and talk circles. The latter is designed to encourage sharing of knowledge, experience and lessons among fishers and fishers' organizations, and to foster networking and collaboration across groups. Same as in the previous congresses, there will be about 50 fishers, fishers' associations and civil society organizations working in support of small-scale fisheries at the congress. Also as before, students and early career scientists are very active in the congress, holding a sizable share of presentations in all formats, including the exhilarating 'Pesca Kucha' session. In fact, one plenary session in the congress is devoted to talks by these scholars, who are actively engaged in research, actions and publication, leading the way in many directions in the discussion about the future of small-scale fisheries.

With this, the stage is set for great exchange and interaction about the role of science, community and policy in transdisciplinarity and transformation for the future of small-scale fisheries. The only thing remaining before we get started is for us to express our sincere gratitude to all members of the global and local congress committees for their hard work in putting the congress together. We are in debt to many institutions and organizations who are collaborating in the hosting of the congress, and also in providing funding support, which makes it possible for us to keep the registration at the reasonable rate and which enables participation of many congress participants. We are thankful, of course, for all of you who have made the time and effort to join us.

The congress staff persons, namely Vesna Kerezi and Mirella Leis, have been working tirelessly for the past 1.5 years to prepare for this week. It is exciting and rewarding, but at the same time overwhelming and exhausting. You may not know who they are and what they look like, but you will certainly see them around, buzzing about and taking care of everyone as they have been doing very intensively during the past few weeks. So, anything about the congress that needs attention, you can direct it to us (Kungwan and I, you have our picture!), and we'll do our best to address it. Anything that you like about the congress, please let Vesna and Mirella know.

We hope you enjoy the congress!

Ratana Chuenpagdee  
Kungwan Juntarashote  
Congress Co-Chairs



## GENERAL INFORMATION

### **Congress venue**

All congress sessions will be held in the Holiday Inn.

Holiday Inn  
318/1 Chiang Mai-Lamphun Road, Amphur Muang,  
Wat Ket, Chiangmai, Chiang Mai 50000, Thailand

Room locations for all sessions are indicated in the program booklet. Floor plans of the congress venue are included in the back of the program booklet for your reference.

All social events will take place in the Holiday Inn, except Friday “Khantoke dinner”, which will be held at Old Chiangmai Cultural Center (<https://oldchiangmai.com/>). See below for details.

Congress secretariat is in ‘Mengrai 1’ Room.

### **Registration**

All registered participants can pick up the name badge and the congress kit at the Holiday Inn, starting on Sunday, October 21st at 14:00. Note that there will be no on-site or walk-in registration. The congress kit will include program booklet and the tickets for the lunches, social events and field trip.

Registration opening hours:

Sunday: 14:00 - 20:00

Monday: 07:30 - 17:30

Tuesday: 07:30 - 17:30

Late arrivals can pick-up the congress kit at the Conference Information Desk on the 2<sup>nd</sup> floor.

### **Identification of delegates**

Your name badge is required for admission to all sessions, workshops, lunches and breaks. Tickets for lunches and the social events will be included in the congress kit for those who have registered for them in advance.

### **Official language**

English is the official language of the congress. If you need help with translation, we can offer “whisperers” service in various languages. Ask at the Registration Desk for more information.

### **Volunteer assistance**

Congress volunteers will be wearing either grey polo shirts or blue t-shirts. They will be glad to assist you so please feel free to ask them any questions.

### **Speaker information**

All presentations must be uploaded onto a laptop located in the room where the session will take place, via a USB drive, **at least half an hour before the presentation takes place**. Someone will be at the laptop at all time to assist you with it, or ask one of our volunteers if you need any help.

Pesca-Kucha presentations must be uploaded onto our computer system, via a USB drive **by the end of Monday October 22<sup>nd</sup>** so that we can check that everything runs smoothly and load all the talks in the computer. Please note that we will follow the order shown in the program and we will save all the questions/discussion for after the last presentation in the session.

E-posters must be uploaded via the 'e-poster submission form' on the congress website **by the end of Wednesday, October 17<sup>th</sup>**. If you are not able to do it before this date, please inform the registration desk upon arrival.

### **Internet**

There will be no free Internet connection in the conference rooms. So please check your email in the morning from your residence before going to the conference. If you need to access Internet during the conference, please contact the congress secretariat in Mengrai 1 Room. You can easily buy SIM card for your mobile device (tourist packages), which gives you a good amount of data at reasonable costs, at any airport when you arrive. This is assuming that your phone is not locked. Otherwise, Thailand is also a pretty good place for shopping and you can easily buy a new phone there.

### **Dietary requirements**

Thai food is delicious because of all the ingredients that some of you may not be able to eat like fish sauce, shrimp paste, and peanuts. We have noted your dietary requirements and will do our best to ensure that some items at all meal functions are safe for people with allergy and other restrictions. Still, if you have particular food preference or would rather play it safe, you might consider bringing some of your own food to Chiang Mai.

### **Smoking Policy**

Smoking is prohibited in the conference venue.

### **Mobile Devices Etiquette**

Out of the courtesy to speakers and participants, we ask that you turn off your mobile devices, or put it to mute or vibrate during all sessions and congress functions.



### **Photography and Recording Policy**

Photos and videos may be taken during the congress, as part of the congress organization. If you do not wish to be photographed, make sure to express this at the time of your registration at the Registration Desk so that we can mark your name badge accordingly. Your name badge must be clearly visible during congress events and sessions.

Please do not take photos of individual slides during the talks as the information belongs to the speakers and her/his co-authors. Should you wish to obtain copies of a presentation we ask that you discuss this with the Speaker.

No digital recordings are permitted in the sessions without the express consent of the Speaker prior to the session.

### **Publications statement**

All abstracts are available for download on the congress website [<https://toobigtoignore.wixsite.com/3wsfcongress>]. Congress proceedings will be available by October 31<sup>st</sup> on the congress website. Please note that all participants will be added to the Too Big To Ignore Listserv in order to receive news, information and updates about small-scale fisheries. If you do not wish to join the listserv, please inform us at the registration desk.

### **Transportation (airport and city)**

The Chiang Mai International Airport is located at 4 km or about a 15-minute drive from the 3WSFC venue. Transportation to and from the Chiang Mai International airport is available via the Super-Highway and Chiang Mai-Hod Road with public taxi service. There are several kinds of transportation services provided for passengers at the airport. Transportation service counters are located on the 1<sup>st</sup> floor opposite domestic and international arrival lounges.

Many hotels will arrange transfer to and from the airport (some are free, some with charge). Check with your hotel to see if they provide this service. The Holiday Inn Chiang Mai (conference venue) offers airport transfer for their guests using a shared van, upon reservation for 120 THB between 8 AM to 8 PM. Please fill out the 'Airport Transfer Booking Form' and contact them to make your reservation at [reservations.chiangmai@ihg.com](mailto:reservations.chiangmai@ihg.com).

Taxis from the airport to the hotels and city centre should cost about 125-150 Baht. Taxi stands are in front of the 'Domestic Terminal.'

### **Getting around**

Most accommodation options are within a walking distance from the 3WSFC venue. If you need transportation from your accommodation to the venue you may take a taxi, a rôt daang, tuk-tuk, or a bus to go from your accommodation to the venue.

Rót daang (literally 'red trucks') operate as shared taxis, and they roam the streets picking up passengers who are heading in the direction they are traveling. There are no fixed routes so the easiest thing to do is to ask if the driver will take you where you want to go. Journeys start from 20 THB for a short trip of a few blocks and 40-100 THB for a longer trip.

Tuk-tuk, a three-wheeled, window-less hybrid between a motorcycle and a taxi, are painted in bright colors (reds, blues, and greens) making them easily identified, and are found all throughout the city. They work only on a charter basis and are more expensive than rót daang, but they offer that energizing wind-through-your-hair feeling and are faster in traffic. Rates start at 60 THB for short trips and creep up to 100 THB at night. Some drivers can be pushy and may try to steer you towards attractions that pay commissions.

Samlors still cruise the streets of the old city and will go your way for about the same price as tuk-tuks. They are also available for short tours of Wats (temples) and places of interest. If you're not in a hurry, it's a novel way to see the inner city temples.

### **Social media information**

We permit and encourage the use of the social media as the congress, provided that the:

- a) Copyright law is observed;
- b) Verbatim information is limited to a few quotes; and
- c) The author or speaker is referenced and cited appropriately.

### **Follow us on Twitter @3WSFC**

We encourage all of you to post and tweet on your insights during 3WSFC tagging us @3wsfcongress and using #3WSFC and #3wsfcongress.

### **Friend us on Facebook**

<https://www.facebook.com/3wsfcongress/>

### **Watch us on YouTube**

Check Too Big To Ignore website for the special YouTube channel, live-streaming the congress and highlights  
[www.toobigtoignore.net](http://www.toobigtoignore.net)

### **Parking at the Holiday Inn**

Complimentary parking is provided for hotel guests. If you do not stay at the Holiday Inn and need parking ticket, please contact congress registration desk.

**Emergency contact**

Dr. Kungwan Juntarashote; 081-302-6333 (mobile)

Ms. Nannapat Rungruengrayup; 089-894-5092 (mobile)

*\*\*\* For calling from outside Thailand, please add country code: 66 \*\*\**

**Official congress website:**

<https://toobigtoignore.wixsite.com/3wsfcongress>

**Field Excursion: Kwan Phayao**

The field excursion takes place on Thursday October 25<sup>th</sup>. We will go and visit a small freshwater lake, Kwan Phayao, where traditional small-scale fishing can be found. The trip will include a quick stop at a hot spring (only enough time to boil quail eggs), simple lunch at the community, visit to a subsistent integrated farming, fishing and farm, enjoy lake viewing, and a final stop at a local market (with enough time to sample local delicacies). See field trip details in your congress bag.

Buses will depart from the Holiday Inn at **7 AM SHARP** and will return at about 7.30 PM. Note that we have reached the maximum capacity for the field excursion. Those pre-registered for the field excursion will need to confirm your participation at the time you pick up your congress kit. Failure to do so will result in us giving up your space to people on the waiting list. If you are on the waiting list, please confirm at the time of registration whether you are still interested in joining us. We are making every effort to make it possible to bring everyone interested in the field trip with us.

**Special Events Information****Monday Opening Reception “The Northern Hospitality” @ Terrace, Holiday Inn**

Monday Opening Reception will be held at 18:30 at Holiday Inn. There will be a variety of food and cash bar.

**Tuesday Cultural Exchange @ Grand Nanta Ballroom**

Join us on Tuesday evening, from 17:30-19:00 for an exhibition of cultural presentations by congress participants. The exhibition will include variety of artistic expressions such as singing, dancing, poetry reading, rope weaving and much more. Snack and refreshments will be served.

**Friday Khantoke Dinner Show @ Old Chiang Mai Cultural Center**

The Khantoke Dinner at the Old Chiang Mai Cultural Center is based around the traditional Northern Thai dinner and dancing show. The very first ever Khantoke Dinner Show was created in Old Chiang Mai in 1970 as a way to showcase the traditional Northern Thailand, Lanna, culture. For the Khantoke dinner guests sit on bamboo mats on the floor and are served a range of northern Thai food to share with the table. While you sit and eat, a variety of Traditional Thai dances are shown on stage including sword dancing and a popular drum performance.

Transportation from the Holiday Inn to the **Old Chiang Mai Cultural Center** will be provided using “Rót daang” (little red trucks). Several Rót daangs will be waiting in front of the Holiday Inn, starting at 5.45 PM.

### **Other useful Information**

*Money exchange:* The National currency in Thailand is the Thai Baht (THB), which is equivalent to approximately 0.030 US Dollar.

*Weather:* October in Thailand is the end of the rainy season. It might still rain, but the weather remains mostly sunny with cooler temperatures and decreased humidity. It is one of the prettiest times to visit Chiang Mai and Northern Thailand, at the tail end of the wet weather when the rice fields create a patchwork of green across the landscape.

*Congress dress code:* Smart-casual. Participants are encouraged to bring traditional clothing and outfit for all the social events (i.e. Monday reception, Tuesday cultural exchange, and Friday dinner).

### **About the Congress Program**

The congress program is designed to encourage sharing of knowledge, lessons and learning about small-scale fisheries from research, community engagement and actions, and policy initiatives. Many of the sessions are taking place in ‘**plenary**’ so that everyone will be able to hear the current and emerging issues and concerns, the latest development in methods, approaches and tools to promote sustainable small-scale fisheries, and the advancement in the development and implementation of many key policies, such as the SSF Guidelines and the Sustainable Development Goals (SDGs). There are also standard **concurrent sessions** where papers are presented, either as part of special or regular sessions.

For posters, we use ‘**e-poster**’ format, which means that the posters will be shown on a screen at designated in rotation during the entire congress, on a screen with a seating area. E-poster presenters will be available in the viewing area during the refreshment breaks to answer questions. See below for the exact schedule of the e-poster presentations.

There are two ‘**interactive**’ sessions at the congress: the **Science Café** and the **Fishers Talk Circles**. The **Science Café** is organized by researchers and teams on many of the hot topics and issues that require deliberation in a small, informal setting, to enable exchange of ideas and discussion. The Science Café organizers will make a pitch for their table at the start of the session and participations are then free to choose which café they would like to visit. They are also free to move from one café to the next or roam around as they wish.

The **Fishers Talk Circles** are organized to facilitate fisher-to-fisher conversation, and the sharing of knowledge and lessons, around issues, concerns and challenges affecting small-scale fisheries, as well as options, opportunities and solutions to address them can vary among people. Fishers are invited to

share current situations in their fisheries, what goes well and does not go so well, and their views on what need to be done to improve conditions and the situations for small-scale fisheries. Some talk circles will be conducted in Spanish, French and Portuguese. Fishers are free to join any circle they like and stay as long as they like, or organize their own circles. In addition to these 'free flow' talk circles, five "special topics" talk circles will also be organized during the same time period (see program).

### **Cross-cutting questions**

The congress theme, "Transdisciplinary and Transformation for the Future of Small-Scale Fisheries," invites us to think outside of the box about what we can do collectively to enhance understanding, promote the importance of small-scale fisheries, and support their viability and sustainability. Although the days are organized into science, community, policy, field and action, we encourage everyone to think about the following cross-cutting questions as we move through the congress.

- (1) What is the major knowledge gap in small-scale fisheries?
- (2) What are the major challenges facing small-scale fisheries?
- (3) What kind of change in science, community, markets and policy is required to improve viability of small-scale fishing communities, reduce their vulnerability and to promote SSF sustainability?
- (4) What actions are required from civil society organizations, research community and policy people in order to implement the SSF Guidelines?
- (5) How to strengthen the policy-science interface?

Friday is the **Action Day!** What would we like to see happening, in our own country, in the region and around the world, after we all go back to our base and before the next congress in 2022? We will have an opportunity to discuss this in the '**Regional Roundtables**' where participants are invited to join conversation in any region of your choice to come up with visions, strategies, and a plan of actions. We will then meet back in the plenary to discuss what we would like to do together, what vision we have for the future of small-scale fisheries, what messages that we want to come out of the congress, what commitment we are willing to make to help achieve the vision and goals.

## CONGRESS PROGRAM SUMMARY

### MONDAY, OCTOBER 22<sup>nd</sup> - SCIENCE DAY

#### PLENARY SESSION #1 - SETTING-THE-STAGE

Monday, October 22<sup>nd</sup>, 8:30-10:00

Location: Grand Nanta Ballroom

##### Opening and welcome remarks

- Rector of Maejo University
- Director General, Thailand Department of Fisheries

##### Congress overview

- Ratana Chuenpagdee

##### Panel presentation: "Science, community, policy overview"

Chair: Ratana Chuenpagdee

To set the stage for the congress, three speakers will give overview presentations about the state-of-the-art in small-scale fisheries research, the recent activities, actions and achievements from small-scale fishing communities and civil society organizations, and the recent development in fisheries policies at the global and regional levels. The congress overview and the 'cross-cutting questions' will also be presented.

- **Svein Jentoft**, Arctic University of Tromsø, Norway  
*'State-of-the-art in small-scale fisheries research'*
- **Editrudith Stephen Lukanga**, World Forum of Fish Harvesters and Fish Workers (WFF) and African Women Fish Processors and Traders Network (AWFISHNET), Tanzania  
*'Efforts of CSOs in supporting viability and sustainability of SSF around the world'*
- **Nicole Franz**, Food and Agriculture Organization of the United Nations (FAO), Rome, Italy
- *'Recent development in the global and regional fisheries policies'*

### REFRESHMENT BREAK E-POSTER SESSION (10:00-10:30)

#### E-POSTER SESSION #1

Monday, October 22<sup>nd</sup>, 10:00-10:30

Location: Exhibition Area

Speakers	Title
Laia D'Armengol	Shared understandings for adaptive co-management in a tropical small-scale fishery in Mexico
Nicolas Rovegno	Catalyzing initiatives for improvements in a Fishery Improvement Project: Case study of the jumbo squid small scale fishery in Peru
Mohammad Mozumder	Climate change: Social, economic, and ecological adaptation strategies for Hilsa ( <i>Tenualosa ilisha</i> ) fishers in Bangladesh
Ignacio Sobrino	Definition of fishing trip types and fleet components in the Spanish artisanal fishery of the Gulf of Cádiz: A new approach for study of artisanal fisheries
Ana Fraga	Sustainability challenges for artisanal fisheries in the Azorean islands part of UNESCO's Biosphere Reserves: Local conflicts, social actors and the opportunities of a new ecosystemic approach

## PLENARY SESSION #2 - EMERGING LEADING SCHOLARS

Monday, October 22<sup>nd</sup>, 10:30-12:00

Location: Grand Nanta Ballroom

**Chair: Svein Jentoft**

### Emerging leading scholars

The last decade has been an exciting time for small-scale fisheries, with the heightened interest in this important sector. Researchers and practitioners from a wide range of disciplines and experiences are making enormous contributions to enhance knowledge and understanding about small-scale fisheries in various parts of the world. Five of them are showcased in this session.

- **Andrew Song**, ARC Centre of Excellence for Coral Reef Studies, James Cook University and WorldFish, Australia  
*Multi-scale policy diffusion and translation in Pacific Island coastal fisheries*
- **Mahmud Islam**, Department of Coastal and Marine Fisheries, Sylhet Agricultural University, Bangladesh  
*The impacts of transdisciplinary threats and stressors on the mangrove fisheries in the Bangladesh Sundarbans*
- **Ahmed Khan**, African Development Bank Group, Côte d'Ivoire  
*The High 5s and Feed Africa Strategy: the role of small-scale fisheries in the blue economy flagship program*
- **Alicia Said**, Memorial University of Newfoundland, Canada  
*Aligning the sustainable development goals to the small-scale fisheries guidelines: a case for EU fisheries governance*
- **María José Barragán-Paladines**, Charles Darwin Foundation for the Galapagos Islands, Ecuador, Santa Cruz and Leibniz Centre for Tropical

Marine Research (ZMT), Germany  
*The Meanings of 'Fish': past stories and contemporary images of small-scale fisheries in Latin America and the Caribbean*

**LUNCH @ River Terrace (12:00-13:00)**

**SCIENCE CAFÉ AND SPECIAL SESSIONS**

Time	Session title	Location
13:00-15:00	Science café	Grand Nanta Ballroom
13:00-14:00	Special Sessions ➤ #1: Small-scale fisheries: translating information demands	Tharathong II
14:00-15:00	➤ #2: New data, methods and tools to help inform policy on small-scale fisheries	Tharathong II

**SCIENCE CAFÉ**

Monday, October 22<sup>nd</sup>, 13:00-15:00

Location: Grand Nanta Ballroom

**Chair: Kungwan Juntarashote**

**Science Café #1: How SSF traditional ecological knowledge is used in the MSC certification program and tools**

Organized by: Carlos Montero-Castaño, Marine Stewardship Council, United Kingdom

Team members: Carlos Montero-Castaño, Marine Stewardship Council, United Kingdom; Amanda Lejbowicz, Marine Stewardship Council, United Kingdom; Matt Watson, Marine Stewardship Council, United Kingdom

**Synopsis:**

Traditional knowledge has been always present in the use of natural resources where daily observation and experience have been the basis to understand our environment and the potential consequences of human interventions. This traditional knowledge has played a particular crucial role in fisheries where most of the impacts and consequences of that human intervention are not usually visible which makes much more difficult to establish cause-effect relationships. This fact has special relevance in the case of Small-Scale Fisheries (SSF) where usually less traditional bioecological research and monitoring investment is applied due to their relative, and probably wrongly understood,



lower socioeconomic relevance. The Marine Stewardship Council (MSC) is the most recognized global fisheries certification program worldwide, coherent with the FAO Code of Conduct and the FAO Guidelines for the Ecolabelling of Fish and Fishery Products from Marine Capture Fisheries. The MSC certification program is based on its standard for sustainable fisheries which provides a global framework of fisheries management best practices. The MSC third-party assessment process therefore allows to recognize those best practices actions and to identify and analyse challenges within specific fisheries management system. The MSC program integrates the Traditional Ecological Knowledge (TEK) concept from two complementary dimensions emanating from its vision and mission. This presentation presents how TEK has been considered to assess and certify Small-Scale Fisheries against the MSC Sustainable Fisheries Standard, analysing the rationales produced by the evaluation teams of the independent third-party certification bodies applying the RBF tool and the informal and traditional approaches in order to score specific performance indicators.

### **Science Café #2: Building co-management innovation in small-scale fisheries through action research**

Organized by: Marc Leopold, Institut de Recherche pour le Développement (IRD), New Caledonia

#### **Synopsis:**

In nine case studies in Vanuatu and New Caledonia (South Pacific), management institutions in small-scale, sea cucumber fisheries were intentionally transformed between 2008 and 2016 through fishery policy intervention. We developed a problem-solving, context-based approach to address overexploitation issues in practice through the design and implementation of co-management regimes.

We collaboratively defined and revised our quasi-experimental research framework, objectives, expected outcomes, and action. An innovative partnership was developed including scientists (fisheries, ecology, public law), fisheries department and non-governmental organization staff, commercial fishers (male and female), buyers, processors, and traditional leaders. We improved fishery knowledge using innovative participative monitoring methods and science-based stock estimates, while providing technical training and user-driven tools to support co-management decisions at local and national level. We promoted in situ interactions and communication tools for informed discussion. Although those results should not be over-generalized, the key messages of this research are twofold:

1. The observed increase in governance performance in all case studies showed that conducting action research through fishery policy intervention is an efficient, holistic approach to social learning and co-management engineering. Action research was a way to operationalize the linkage between transdisciplinary research and governance in small-scale fisheries, and to understand the dynamics of cooperation.

2. We found that policy interventions promoting large-scale co-management of small-scale fisheries should be fine-tuned at the level of the relevant social units (e.g., the community). The role of bridging organizations capable of supporting a community leader network that engages in government-supported fisheries co-management institutions seems therefore essential to the success of such interventions.

### **Science Café #3: The use of temporary octopus fishery closures as a catalyst for broader conservation; lessons from Madagascar, Tanzania and Indonesia**

Organized by: Marc Fruitema, Blue Ventures Conservation, United Kingdom  
Team members: Marc Fruitema, Blue Ventures Conservation, United Kingdom;  
Lorna Slade, Mwambao Coastal Community Network, Tanzania; Mursiati  
Mursiati, Forkani

#### **Synopsis:**

Hundreds of millions of people depend on coastal fisheries for food security and livelihoods. Between the growing threat of global climate change and the widespread over-exploitation of coastal resources, there is an urgent need for the sustainable management of tropical small-scale fisheries at a local-level, delivering meaningful benefits over realistic time-scales for fishing communities. Although locally managed marine areas (LMMAs) are increasingly recognised as an effective tool in managing small-scale fisheries for the benefit of coastal communities, establishing them can be a difficult and complicated process. Small, short-term (2-3 month) octopus fishery closures can be an intermediate step towards long-term community-led management; providing short-term economic incentives whilst building the governance systems required for broader management planning. Since 2004, there have been over 300 temporary octopus fishery closures in Madagascar and Tanzania and since 2017, this approach has been applied to octopus fisheries in Indonesia. By looking at the political ecology of closures across these three countries and the associated results, we evaluate the potential for this management measure to lead to broader conservation. Experiences from these three countries show that while short-term goals are similar (increased catch and associated income), the long-term aims of temporary closures are highly contextual; varying from securing tenure and management rights, building capacity of management institutions, to building community support for conservation efforts. While long-term impacts vary, the experience gained from organising temporary closures builds and strengthens the capacity of resource management institutions at the local-level, setting the foundation for more ambitious, resilient community-led conservation.

### **Science Café #4: Small fish for food and nutrition security**

Organized by: Jeppe Kolding, University of Bergen, Norway  
Team members: Maarten Bavinck, University of Amsterdam, The Netherlands;  
Jori Scholtens, University of Amsterdam, The Netherlands; Shakuntala Thilsted,  
WorldFish, Cambodia

**Synopsis:**

The SmallFishFood consortium is a multidisciplinary research team from Norway, the Netherlands, Germany, Ghana, Kenya and Uganda, covering the fields of fish stock assessment, processing, marketing, nutrition, risk assessment and governance. We provide innovative rethinking of the food security discourse by focusing on the nutritional value of small fish (e.g. sardines). We aim for transformation to ecological sustainability and food security by asking: How can socio-cultural, economic and institutional transformations of the fish value chain, as well as technical and infrastructural innovations, contribute to improved, sustainable utilization of small fish resources for Africa's low-income population? The fact that the nutrients in fish can play a significant role in combating the triple burden of hunger, micronutrient deficiencies and non-communicable diseases is the starting point of the project. However, the unique qualities of fish are seldom recognized in the global food security discourse, and fish is strikingly missing from nutrient deficiency strategies among disadvantaged groups. Small fish are ubiquitous in all aquatic environments from large marine ecosystems to seasonal ponds, as well as in market places and low-income household diets, but their significance is underrated and little understood as they are consumed locally and often go unrecorded in catch statistics. In fact, fisheries are the most energy efficient producers in comparison to other food production systems and have the least environmental impact in terms of greenhouse gases and use of freshwater, fertilizers, insecticides/herbicides. Catching small fish, which are simply sun-dried and consumed whole, is the most high-yielding, eco-friendly, low CO<sub>2</sub>-emission and nourishing way of utilizing aquatic resources. However, a range of social, technical, economic and legal barriers inhibit the full potential of utilizing small fish and it is the aim of this project to contribute to solving these.

**Science Café #5: Piketty at Sea: capturing increasing inequalities in the distribution of fish(y) wealth**

Organized by: Joeri Scholtens, University of Amsterdam, The Netherlands  
Team members: Derek Johnson, University of Manitoba, Canada; Maarten Bavinck University of Amsterdam, The Netherlands

**Synopsis:**

Spurred by the academic and popular uptake of Thomas Piketty's book and the mobilisation around the slogan 'we are the 99%', recent years have seen ample attention being paid to escalating economic inequalities. This research initiative brings the issue of inequality to the maritime domain by investigating the deepening inequalities that occur in the accumulation and distribution of wealth generated from fisheries. During past decades, fisheries reforms in the 'Global North' and fisheries modernization programs in the 'Global South', have tended to concentrate wealth and marginalize those most dependent on fisheries for food and livelihood. These intensifying disparities between super-rich 'quota barons' and smaller scale fishers and crewmembers produce injustices that undermine the legitimacy and effectiveness of fisheries governance and erode the social fabric of coastal communities. Building on available intergovernmental

and academic datasets, this research aims to map out and interpret historical changes (1960-2014) in inequality at three scale-levels: 1) inequality of marine wealth accumulation between countries globally; 2) inequality between large and small-scale fisheries within selected countries; and 3) divergence between owners and crew members at the level of selected fishing companies. The research thus combines various methods to build a layered understanding of how inequalities at sea are (re)produced, consolidated and contested. This explicit focus on inequality foregrounds distributional implications of fisheries policies, confronts dominant fisheries management discourses that tend to legitimize and reinforce inequality at sea, and thus reinvigorates the debate on the connection between social-economic inequality and environmental sustainability.

**Science Café #6: Navigating social-ecological regime shifts for transformations in small-scale fisheries: transdisciplinary perspectives from India, Indonesia, China and Mexico**

Organized by: Prateep Kumar Nayak, University of Waterloo, Canada

Team members: Hameet Singh, University of Waterloo, Canada; Lichu Lin, University of Waterloo, Canada

Samantha King, University of Waterloo, Canada' Simar Kaur, University of Waterloo, Canada

**Synopsis:**

Regime shifts in small-scale fisheries can be understood as abrupt, long-term and significant changes in their ecosystem structure and function that are often irreversible, and they produce complex and uncertain outcomes, with implications for the maintenance of the fishery systems and fisher wellbeing. Responding to such shifts is a significant challenge for fishers and managers. If left unchecked, the implications of regime shifts` can be devastating for the future of small-scale fisheries. Understanding of linked social-ecological variables that may possibly signal approaching thresholds and their implications for positive transformations and governance in small-scale fisheries remain poor. This session focuses on a social-ecological system perspective to broaden our understanding of regime shifts in small-scale fishery systems and considers its implications for achieving positive transformations. Social-ecological regime shift (SERS) is defined as abrupt, long-term and significant changes in linked systems of people and nature with uncertain implications for ecosystem services and human wellbeing. This perspective has important consequences for how we interpret and respond to regime shifts in small-scale fishery systems, and craft innovative governance arrangements to move towards achieving positive transformations. This world café session will focus on generating insights on novel tools and methods for ensuring positive transformations in small-scale fishery systems under threat from regime shifts and thereby contribute to food security, human well-being and ecosystem health. The team will share their research experiences and key questions to trigger interesting discussion with the café participants. This will include insights from small-scale fishery systems in four distinct coastal- marine areas: 1) Zoning (i.e., Marine Protected Areas) of coastal spaces, ecotourism and coral reef habitat rehabilitation in Karimunjawa,

Indonesia; 2) Ecological conservation and community wellbeing implications in the Ría Lagartos Biosphere Reserve, Mexico; 3) Marginalisation of women fishers and a gender approach to rapid changes in small-scale fisheries of Chilika Lagoon, India; and 4) Fishery collapse and governance challenges in Zhuhai, Guangdong, China.

### **Science Café #7. Illuminating Hidden Harvests**

Organized by: Nicole Franz, Food and Agriculture Organization of the United Nations (FAO), Italy; Xavier Basurto, Duke University, United States; David Mills, WorldFish, Australia

Team members: Xavier Basurto, Duke University, United States; Nicole Franz, FAO, Italy; David Mills, WorldFish, Australia; Simon Funge-Smith FAO, Italy; Nicolas Gutierrez, FAO, Italy; John Virdin, Duke University, United States; Lena Westlund, FAO, Sweden

#### **Synopsis:**

As you know, it is said that small-scale fisheries (SSF) employ over 90 percent of fishers and fish workers worldwide and, among these, 96 percent live in developing countries where they produce almost as much fish for direct domestic consumption as large-scale fisheries. Yet still big questions remain: what is the importance of SSF for food and nutrition security, local economies and poverty eradication? How are the overall benefits generated by SSF distributed and how can they be enhanced? Come to our science café to hear about the Illuminating Hidden Harvests Project (IHH), a global study we are designing to answer these important questions!

The aim of IHH is to capture and quantify the contributions of SSF to the three pillars of sustainable development (economic, social and environmental) at a global level. Data and information to produce these indicators will be collected through country case studies, statistical questionnaires and available databases. We are currently looking for partners at country/regional level to help us in the implementation of IHH! The ultimate goal of this effort is to generate scientifically sound evidence to fill the existing gap of knowledge around benefits and impacts generated by SSF. This will also underpin a more informed inclusion of SSF in the international policy-making process. In addition, the results of IHH will support the design of a participatory framework for the SSF Guidelines monitoring and implementation around the world. Come and hear from us and fisher representatives themselves about how they see this project can benefit them!

### **Science Café #8: Dried Fish Matters for the Sustainability of Small-Scale Fisheries**

Organized by: Derek Johnson, University of Manitoba, Canada

Team members: Ben Belton, Michigan State University, USA; Arjilli Dasu, District Fishermen's Youth Welfare Association, India; Kyoko Kusakbe, Asian Institute of Technology Gender and Development, Thailand; Priyadarshi Patnaik, Indian

Institute of Technology Kharagpur, India; Wae Win Kiang, Myanmar; Dilanthi Koralagamage, University of Ruhuna, Sri Lanka; Nireka Weeratunge, International Center for Ethnic Studies, Sri Lanka

**Synopsis:**

In the same way that small-scale fisheries are typically the second class citizens of fisheries governance, dried fish refers to an unglamorous suite of products that are typically neglected in fisheries policy. Yet, this humble array of food items, from sun-dried small pelagics to fermented fish paste, are central to the livelihoods of millions of women and men in Asia and culturally, economically, and nutritionally crucial parts of the diets of millions of consumers in the region and around the world. This Science Café session launches a new project on the social economy of dried fish in six countries in South and Southeast Asia. The session introduces the holistic approach to value chains that the project is developing. We position small-scale fishers in larger circuits of processing, exchange, and consumption of dried fish, thereby enhancing understanding of broader drivers of change. We also highlight the project's transdisciplinary design. We reflect on the benefits and challenges of multi-scale and comparative research across a wide geographical space that engages social and natural science researchers with policy makers and civil society participants.

Following our project pitch, participants conducting research in five of the six project countries will facilitate discussions around aspects of the project of interest to session participants.

**Key messages:**

- Within small-scale fisheries, dried fish is a marginalized area of focus, despite its importance
- The pro-poor dried fish sector needs greater policy attention
- Dried fish value chains are a valuable and little visited vantage point on small-scale fisheries

**Science Café #9: Building partnerships for enhancing sustainable fishing practices in South African coastal communities**

Organized by: Kashiefa Parker, International Ocean Institute - African Region, South Africa

Team members: Kashiefa Parker, International Ocean Institute - African Region, South Africa; Philile Mtshali, Coastal Links Kwa Zulu Natal, South Africa; Junaid Francis, WWF, South Africa (in absentia); Shannon Hampton (in absentia)

**Synopsis:**

In light of the Policy development for small-scale fisheries in South Africa, a new skills development project is being rolled out across coastal South Africa to educate and empower small-scale fishing communities around the importance of sustainable fishing. The Small-scale Responsible Fisheries Training Project was conceptualised by WWF South Africa (WWF-SA) and is being co-ordinated nationally by the International Ocean Institute - African Region (IOI-SA). It is

overseen by a partnership of transdisciplinary steering committee members. The training takes the form of a 1-day workshop that explains EAF, responsible fishing practices, fisheries management approaches and environmental issues through a series of discussions, videos, interactive games and presentations. The workshops are delivered by a pool of members from small- scale fishing communities who are trained and empowered to deliver the workshops. The course and content is adaptable, multilingual, the ability to reach isolated communities with few resources and levels of literacy, and across all ages. Creating a space of mutual respect builds a platform for community challenges to be raised and voices to be heard. Fisher communities have extraordinary diversity and face challenges that are too complex for a single party to address. By sharing knowledge and fostering partnerships amongst community, conservation, and governance partners form a catalyst for the development of further community training needs and challenges to be addressed. Our science café session will be designed around three interactive activities that reflect three key project themes.

### **Science Café #10. Picture fishing: Performing global fisheries diversity**

Organized by: Adam Jadhav, University of California at Berkeley, United States  
Team members: Adam Jadhav, University of California at Berkeley, United States;  
Sylvia Targ, University of California at Berkeley, United States

#### **Synopsis:**

An initiative of images and short essays highlighting the variation of fishing people, places and practices. A political failure to imagine or recognize fisheries diversity undercuts progressive protection and rights for the tens of millions of fishers and fishworkers globally who remain decidedly small-scale. A developmentalist narrative — too often propagated by scientists and policymakers — defaults to the position that vulnerability and backwardness are synonymous with fisheries diversity; this conflates value with aggregate catch and reduces the fishery to an abstract collection of boats and self-interested fishers. Missing is the multiverse of practices, traditions and social-ecological relations. This synoptic reduction is performative; as fishing diversity fades from view for policymakers and politicians, development and governance focus on a homogenous, industrial future. Against this reductionist view, our crowd-sourced research project, "Picture Fishing," intends to visually highlight fisheries diversity worldwide. This project — to be formally launched at 3WSFC — works contra a narrow imagination of future industrialization and decreasing employment. We draw on political ecology, "diverse economies" research and ideas of performativity found in the works of J.K. Gibson-Graham, among others. These critiques posit that "how we talk about and thus know the economy ensures that some economic practices are made real and dominant while others are relegated to subordinate positions or non-existence" (Roelvink, St. Martin and Gibson-Graham 2015). Centering the images of diversity (supplemented by critical text and data) we seek a performance of actually existing fisheries in the face of scientific abstractions and homogenizing development policy.

## **Science Café #11: Vulnerability to Viability (V2V): Global Change Response Actions for creating viable coastal-marine systems**

Organized by: Alida Bundy, Fisheries and Oceans Canada; Ratana Chuenpagdee, Memorial University; Canada; Prateep Kumar Nayak, University of Waterloo, Canada; Ingrid van Putten, CSIRO, Australia

Team members: Alida Bundy, Fisheries and Oceans Canada; Ratana Chuenpagdee, Memorial University, Canada; Prateep Kumar Nayak, University of Waterloo, Canada; Ingrid van Putten, CSIRO, Australia

### **Synopsis:**

Coastal-marine systems, including small-scale fisheries, are particularly vulnerable to the multiple challenges imposed by global change, creating hardship for local communities and businesses that depend on ocean services for income, food, livelihoods, and well-being. Awareness about global change has increased and been accompanied by heightened concerns for the future, yet, there is limited knowledge and understanding of effective responses and adaptive strategies. We will explore the potential for harnessing existing strengths in small-scale fisheries coastal-marine social-ecological systems to create viable coastal communities that can effectively respond to existing vulnerabilities and establish novel governance arrangements for achieving social-ecological sustainability. We present the I-ADApT framework, a decision support tool for analysis and response to global change in coastal-marine systems, and invite presentation and discussion of additional approaches, to address questions in four key areas:

**1. Awareness, perception and articulation of vulnerabilities and strengths –** To what extent are coastal-marine actors aware of their communities; vulnerabilities and strengths and how are they perceived and articulated?

**2. Moving towards viability -** What factors lead coastal-marine actors to work towards reducing vulnerabilities and increasing strengths to achieve viability?

**3. Transformation towards viable coastal-marine systems -** How do coastal-marine actors establish viable coastal-marine systems?

**4. Governance of global change response -** What governance arrangements can support coastal- marine actors to effectively engage in global change response processes?

The session will highlight that understanding and addressing these four key question areas is crucial to progress towards making our coasts and oceans socially, ecologically, economically and politically viable.

### **SPECIAL SESSIONS (13:00-15:00)**

#### **Special Session #1: Small-scale fisheries: translating information demands**



Monday, October 22 <sup>nd</sup> , 13:00-14:00	Location: Tharathong II
Organized by: Simon Bush, Wageningen University, The Netherlands; Nicolas L. Gutierrez, Food and Agricultural Organization of the United Nations, Italy; Mandy Doddema, Wageningen University, The Netherlands	

### Synopsis

Effective management of fisheries resources depends, in part, on the availability of data and information. Whilst small-scale fisheries are often assumed to be underreported and data-deficient for management and trade purposes, they are in reality far from information poor. Information readily flows between fishers, within the communities and onwards throughout the supply chains. However, gathering and translating this information to meet information demands from management and trade is an on-going challenge which contributes to the continued underestimation of the contribution of small-scale fisheries to livelihoods and national wealth. In this special session we reflect on existing and emerging approaches that are bridging this information divide through their understanding of the characteristics of small-scale fisheries. Speakers showcase success stories of small-scale fishery data collection, how innovative ICT solutions, co-creation of monitoring methods, tailored sampling approaches and information feedback loops were able to improve the flow of information between actors. Furthermore, we reflect on what the consequences of this shared information is, what factors played a key role in facilitating the success and opportunities for scaling these approaches. This session will have an interactive format, which will allow for audience members to interact with panelists and encourage exchange of ideas and learning.

### Speakers

- Jeremy Prince
- Pete Halmay
- Chris Wilcox
- Deirdre Duggan
- Nicolas L. Gutierrez
- Simon Bush

### Special Session #2: New data, methods and tools to help inform policy on small-scale fisheries

Monday, October 22 <sup>nd</sup> , 14:00-15:00	Location: Tharathong II
Organized by: Rodolphe Devillers, Memorial University of Newfoundland, Canada; Jennifer Gee, FAO, Italy	

### Synopsis

This session focuses on novel methods, tools and data with the aim to stimulate a dialogue on current and future developments that could be utilized to collect, analyze, share and communicate data that can help understand SSF and thus better inform decisions impacting the sector. The objective is to highlight possible approaches that can be tailored to best fit the needs of different small-scale fisheries to guide policy makers. Specific focus can include global data collection efforts, novel data collection methods (e.g. mobile apps,

crowdsourcing), and ways to better integrate data on the social-ecological system. Short presentations of specific initiatives will be presented in the first portion of the session and these will be used to shape the consequential panel discussions with an aim of stimulating a dialogue for identifying and discussing emerging challenges and opportunities to improve our knowledge of SSF.

Speakers
<ul style="list-style-type: none"> <li>➤ Jennifer Gee</li> <li>➤ Brice Trouillet</li> <li>➤ Rodolphe Devillers</li> </ul>

## REFRESHMENT BREAK / E-POSTER SESSION (15:00-15:30)

### E-POSTER SESSION #2

Monday, October 22<sup>nd</sup>, 15:00-15:30

Location: Exhibition Area

Ana Fraga	Sustainability challenges for artisanal fisheries in the Azorean islands part of UNESCO's Biosphere Reserves: What happens when fisher's find fisheries management lacking legitimacy and resist complying?
Eva Coronado	Differences of fishing operations from two small-scale fleets targeting octopus: understanding fleets' interactions
Rodelio Subade	Valuing coastal areas loss towards transformation of coastal communities of fishers: A case in Miagao, Iloilo, Philippines
Rodelio Subade	Value chain analysis of Windowpane Oysters ( <i>Placuna placenta</i> ) in Oton, Iloilo
Md. Emdad Hossain	Nutrient-rich fisheries enhancement in seasonally flooded rice fields in Southern Bangladesh

### CONCURRENT SESSION #1 (15:30-17:30)

Time	Session title	Location
15:30-17:30	Special session #3: Status, challenges and potential of multi-scale coastal fisheries policy implementation in the Pacific	Tharathong II
15:30-16:30	Special Sessions: <ul style="list-style-type: none"> <li>➤ #4: The future of aquaculture value chains</li> </ul>	Tharathong I
16:30-17:30	<ul style="list-style-type: none"> <li>➤ #5: Lessons from US efforts to sustain and transform small-</li> </ul>	Tharathong I

	scale fisheries through knowledge-sharing networks	
15:30-17:30	Regular Session #1: Coping with change	Nanta II
15:30-17:30	Speed Session #1	Nanta I
15:30-17:30	Special treat #1: "Silver Fins" story telling time	Lanna

### **Special Session #3: Status, challenges and potential of multi-scale coastal fisheries policy implementation in the Pacific**

Monday, October 22 <sup>nd</sup> , 15:30-17:30	Location: Tharathong II
Organized by: Andrew Song, ARC Centre of Excellence for Coral Reef Studies, James Cook University and WorldFish, Australia	

#### **Synopsis**

The Pacific island region is composed of 22 island countries and territories, many of them being Small Island Developing States. As each nation faces significant environmental and development challenges, including limited land-based resources, remoteness from markets, IUU fishing and impacts of climate change, regionally supported and nationally and locally implemented approach to managing coastal fisheries is being offered as a foundation of wellbeing amidst these issues. For instance, the recently endorsed Small-Scale Fisheries Guidelines and the New Song: the Noumea Strategy both seek to provide high-level guidance that can be used to organize, inform and resource the actions of government, non-profit, inter-governmental, civil society and research sectors. This panel presents an opportunity to discuss the value-add of global/regional coastal fisheries policies and their alignment to national-level practices. Panelists will begin the discussion by presenting their experiences on the following questions:

- Has your organization developed a coastal fisheries policy or equivalent?
- Does your organization prioritize implementing this or any other policy?
- How was your work plan regarding coastal small-scale fisheries actually determined, why?
- In what way have you or your organization ever used global/regional policies or commitments, why?
- What would it take for your organization to actually utilize global/regional policy?

This session provides a platform for enriching the dialogue between various organizations who play different roles in the governance of the Pacific's coastal fisheries. This panel also presents the case of coastal fisheries in the Pacific in view of generating comparable insights and offering a relevant basis for informing global action.

#### **Speakers**

- Hugh Govan
- Cherie Whippy-Morris
- Alifereti Tawake
- Tooreka Teemari
- Rosalie Masu
- Christopher Arthur
- Mele Tauati

#### **Special Session #4: The future of aquaculture value chains**

Monday, October 22 <sup>nd</sup> , 15:30-16:30	Location: Tharathong I
Organized by: Ben Belton, Michigan State University, Myanmar/United States; Simon Bush, Wageningen University, The Netherlands; David Little, University of Stirling, United Kingdom	

##### **Synopsis**

This session arose from a special issue of the journal *Aquaculture*, titled *Emerging Trends in Aquaculture Value Chains*, co-edited by session contributors Bush, Belton and Little. The special issue brought together the largest collection of research on aquaculture value chains compiled to date, comprising 19 individual papers. Contrary to much recent research on aquaculture value chains, papers in the special issue highlight collectively how the expansion of aquaculture has resulted in diverse configurations of production for consumption in the global South. Collectively, the papers underline the need for greater attention to neglected value chain segments and categories of actor, modes of production, regulation, and innovation, and patterns of access to benefits. This session, composed of four papers, is organized to showcase papers outlining key themes emerging from the special issue, in order to stimulate interest in and debate over the future of aquaculture value chains and to identify priorities for future research.

<b>Speakers</b>	<b>Title</b>
Simon Bush	Emerging trends in aquaculture value chain research
Ben Belton	The quiet revolution in aquaculture value chains
David Little	Sustainable intensification of aquaculture: lessons from value chain actors
Xavier Tezzo	Re-assessing fisheries and aquaculture development policies in Asia: adopting a fish food system perspective on the aquaculture transition

#### **Special Session #5: Lessons from US efforts to sustain and transform small-scale fisheries through knowledge-sharing networks**

Monday, October 22 <sup>nd</sup> , 16:30-17:30	Location: Tharathong I
Organized by: Joshua Stoll, University of Maine, United States; Kelly Harrell, Ecotrust, United States	

## Synopsis

The 2008 Global Conference on Small-Scale Fisheries identified a number of priority actions to advance small-scale fisheries including protection and promotion of access to rights to fisheries resources, promotion of market access, and capacity building and networking. Across the United States, significant efforts have emerged to advance these priorities. The goal of this session is to share lessons learned from the ongoing efforts to advance key networks that focus on improving the livelihoods of small-scale fishers and well-being of fishing communities. Panelists will include active fishermen and network leaders within the Community Fisheries Network, Alaska Young Fishermen's Network, Fishing Communities Coalition, Fish Locally Collaborative, and the Local Catch Network. Panelists will highlight tools, outcomes, challenges, and lessons learned from these networks and how this work relates to the new FAO guidelines on Small-Scale Fisheries. The panel will lead to a dialog with conference participants about the kind of cross-learning can occur between North America and other places around the world.

### Speakers

- Joshua Stoll
- Kelly Harrell
- Linda Behnken
- Theresa Peterson

## Regular Session #1: Coping with change

Monday October 22<sup>nd</sup>, 15:30-17:30

Location: Nanta II

**Chair: Jose J. Pascual-Fernández**

Speakers	Title
Diego Salguero Otero	Understanding adaptation and transformation to climate change in small-scale fisheries
Rick Gregory	Ten years of freshwater fisheries governance reform in Ayeyarwaddy Region, Myanmar
Erwin Prayogi	the way forwards for sustainable development of Ujung Kulon waters, West Java – Indonesia
Eranga Galappaththi	Adaptations to change: lessons from Coastal Vedda indigenous fisher communities in Eastern Sri Lanka
Akiko Ikeguchi	Adaptive governance of coastal fisheries resources in response to Isoyake (seaweed deforestation): a case study in Ojika island, Japan
Deo Namwira	Coping with and adapting to change on Lake Tanganyika: Changes in fisheries and fisherfolk's responses to sustain their livelihoods
Lena Westlund	Small-scale fisheries and climate change: Exploring holistic people- and community

	centred approaches
Takafumi Yokoyama	Restoration process and adaptive capacity of fishing communities after 2011 tsunami in Japan: Focus on the role of local fishers restarting local rural economies
Prasant Mohanty	Building resilient coastal communities by reducing vulnerability to climate change in the bay of Bengal coast of Odisha, India
Sebastian Tapia-Lewin	Interplay between different dimensions of adaptive capacity affect fisher's adaptations to climate change

### Speed Session #1

Monday October 22<sup>nd</sup>, 15:30-17:30

Location: Nanta I

**Chair: Maria Pena**

<b>Speakers - Group 1</b>	<b>Title</b>
Thamasak Yeemin	Impacts of marine shellfish collection on coral reefs in Thailand
Christian Barrientos	Spatial Temporal patterns in artisanal fisheries in Equatorial Guinea
Irna Sari/Nilam Amalia Pusparani	USAID-sea project is taking the Indonesian small-scale fisheries to the next level of management
Md. Nahiduzzaman	Establishing Marine Protected Area in Nijhum Dweep Seascape: A transformative ecosystem approach for Hilsa conservation
Amanda Lejbowitz	Fisheries certification standards as a tool to implement the Sustainable Development Goals and FAO's Voluntary Guidelines for Securing Sustainable Small-Scale fisheries: A Case Study
<b>Q&amp;A period (5 min)</b>	
Khin Maung Soe	Carrot and stick: incentives to conserve Hilsa fish in Myanmar
Rattana Tiaye	Nam Oon Fisheries Co-management Model, Sakon Nakhon Province, Thailand
Felipe Monteiro Gomes de Mattos	Monitoring trap fish composition at Sirinhaém, south coast of Pernambuco, Brazil
Francisco Fernández-Riveramelo	Fishery management tool in Mexico
Maria Jose Espinosa Romero	Restoring Mexican SSF fisheries and marine ecosystems through effective participation, management tools, and public policies
<b>Q&amp;A period (5 min)</b>	

<b>Speakers - Group 2</b>	<b>Title</b>
Dilanthi Koralagama	Socio-economic issues of women dried fish processors in southern Sri Lanka
Susanne Auerbach	"Back to the community" – Current trends in fisheries policy in Japan
Rizkyana Dipananda	Drawing Invisible Lines: The Process of Boundary Making in Marine Space - A case study of governing FADs in Labuhan Lombok
Wichin Suebpala	Management of wedge clam resource in Thailand
Alicia Saldaña	Whose vulnerability, how viability? A participatory diagnostic approach for sustainable small-scale fisheries
<b>Q&amp;A period (5 min)</b>	
Seishiro Sakita	Building on the tradition: the development of the community-based management of clam fishery in Tōgō lake, Japan
Mbachi Ruth Msophora	Interactive governance of small-scale fisheries and aquaculture: Transdisciplinary challenges of community involvement
Melissa Fabella	Analysis of profits and poverty among small-scale fishers: a case for appropriate government policies in San Andres, Romblon, Southern Luzon, Philippines
Matias John Wojciechowski	Multidimensional and transcalar predicaments of Small-Scale Fisheries in the northern Pernambuco estuarine complex, Brazil
<b>Q&amp;A period (5 min)</b>	

### **Special Treat 1: "Dory and Silver Fins" story telling time**

Monday October 22<sup>nd</sup>, 15:30-17:30

Location: Lanna

**Moderator: Ratana Chuenpagdee**

<b>Speakers</b>
<ul style="list-style-type: none"> <li>➤ Fikret Berkes, Distinguished Professor Emeritus, University of Manitoba, Canada</li> <li>➤ Moenieba Isaacs, Professor, University of Western Cape, South Africa</li> <li>➤ Svein Jentoft, Emeritus Professor, UiT-The Arctic University of Norway, Tromsø</li> <li>➤ John Kurien, Honorary Fellow, WorldFish, Penang</li> <li>➤ Rolf Willmann, Former FAO Senior Fishery Planning Officer, Germany</li> </ul>

### **WELCOME RECEPTION "THE NORTHERN HOSPITALITY"**

Holiday Inn Terrace, Monday October 22<sup>nd</sup>, 18:30-21:00

**PLENARY SESSION #3 - ROLE OF COMMUNITIES, KNOWLEDGE AND INFORMATION IN SUSTAINABLE SMALL-SCALE FISHERIES**

Tuesday, October 23<sup>rd</sup>, 8:30-10:00

Location: Grand Nanta Ballroom

**Chair: Andrew Song**

In this plenary session, we aim to collectively emphasize, discuss and appreciate the information needs and the different knowledge bases (i.e., traditional, scientific and practical) in place or required to support the role of communities in inspiring sustainable small-scale fisheries. First, the Information System on Small-Scale Fisheries (ISSF) will be presented, which can be useful for connecting with other researchers and community efforts around the world and also for documenting small-scale fisheries experiences in a searchable and synthesizable format. This is followed by the presentations of four community champions who will highlight community perspectives on what constitute small-scale fisheries successes and challenges.

**Debriefing from Monday**

**The Information System on Small-Scale Fisheries (ISSF)**

- Rodolphe Devillers

The Information System on Small-Scale Fisheries (ISSF) is an online portal launched in 2014 at the last WSF Congress that compiles diverse information on small-scale fisheries (e.g. people, organisations, publications, description of fisheries). Based on a crowdsourcing approach, the system allows anyone to contribute information, also offering free download of its data in support of research and policy. With nearly 3000 different records, it is the largest global database on small-scale fisheries. This short presentation will give an overview of the system and encourage 3WSFC participants to explore ISSF (available at <https://issfcloud.toobigtoignore.net/>), share some of their regional knowledge, and visit the ISSF booth to get an online demo.

**Community presentations: "Success stories and remaining challenges"**

- Nigel Martinez, The Belize Federation of Fishers, Belize
- Linda Behnken, Alaska Longline Fishermen's Association, USA
- Arilli Dasu, District Fishermen's Youth Welfare Association, India
- Gaoussou Gueye, CAOPA / WANSafa, Senegal

**REFRESHMENT BREAK / E-POSTER SESSION (10:00-10:30)**



### E-POSTER SESSION #3

Tuesday, October 23<sup>rd</sup>, 10:00-10:30

Location: Exhibition Area

Patrick McConney	Influencing Caribbean regional small-scale fisheries policy by protocol
Francis M. Nwosu	Socioeconomic and sociocultural considerations for the management of the artisanal fisheries of the Cross River Estuary, Nigeria
Erica Ferrer	Exploring cooperation and small-scale fishing outcomes in Northwest Mexico
Ruby Napata	Managing small-scale fisheries in the Philippines: The blue swimming crab ( <i>Portunus pelagicus</i> ) Story
Clara Obregón Lafuente	Golden Fish: evaluating and optimising the biological, social and economic returns of small scale fisheries in Western Australia

### PLENARY SESSION #4 - THE FUTURE OF SMALL-SCALE FISHERIES FROM THE COMMUNITIES PERSPECTIVES

Tuesday, October 23<sup>rd</sup>, 10:30-12:00

Location: Grand Nanta Ballroom

**Chair: María José Barragán-Paladines**

This plenary session invites congress participants to jointly reflect and exchange views on the future of small-scale fisheries, as it directly pertains to the needs and aspirations of communities. We will hold a roundtable discussion on **"Future directions, outlooks and prospects,"** led by four short speeches from members of community-based and civil society organizations, focusing on the issues and prospects of different regions. At the end of the session, we will invite participants to share information about regional, national and large-scale initiatives and networks that aim to advance small-scale fisheries agenda at various scales.

#### **Regional roundtable discussion: "Future directions, outlook, and prospect"**

- Nadine Nembhard, World Forum of Fisher Peoples, Belize
- Bobby Maung, Network Activities Group, Myanmar
- Vivienne Solis Rivera, CoopeSoliDar R.L / ICCA Consortium, Costa Rica
- Alifereti Tawake, LMMA International Network, Fiji

#### **Sharing information about "Regional, national and large-scale initiatives"**

**LUNCH @ River Terrace (13:00-14:00)**

## FISHERS TALK CIRCLES AND SPECIAL SESSIONS (13:00-15:00)

Time	Session title	Location
13:0-15:00	Fishers Talk Circles and Special Topics	Grand Nanta and Lanna
13:00-14:30	Special Session: #6: Is migration a pathway out of poverty? Gendered vulnerabilities and capabilities in fishing communities in Asia	Tharathong II

### Fishers Talk Circles and Special Topics

Tuesday, October 23<sup>rd</sup>, 13:00-15:00

Location: Grand Nanta & Lanna

#### Moderators: Patrick McConney and Maria Jose

Issues, concerns and challenges affecting small-scale fisheries, as well as options, opportunities and solutions to address them can vary among people, depending on their perspectives. “Fishers Talk Circles” are organized to facilitate fisher-to-fisher conversation, and the sharing of knowledge and lessons, around these topics. Specifically, fishers are invited to share current situations in their fisheries, what goes well and does not go so well, and their views on what need to be done to improve conditions and the situations for small-scale fisheries. Fishers are encouraged to bring a couple of pictures of their fisheries to share with others at the start of the session. The topics to discuss in each circle will be decided based on some preliminary discussion and also during the session. Some topics that have been proposed are:

Changes required to elevate the profile of SSF	Harnessing responsible technological innovation	Advances in the design of small-scale fishing vessels
What works to strengthen fisherfolk organizations	Ocean grabbing and other types of privatisation	Increasing use of renewable energy in SSF value chains
How has climate change actually affected SSF	What does 'sustainability' mean in SSF livelihoods	Attitudes of youth to SSF as a desirable career choice
Investing in SSF so that mainly fisherfolk benefit	Can SSF survive increasing extreme weather events	Modernising credit and other financial services in SSF
Partnerships between SSF organizations and science	Diversity of views on gender in fisheries globally	Education for fisheries: what have we learnt so far?
Do international markets tend to make or break SSF	What are realistic expectations of the SSF Guidelines	Bringing big data to SSF and scaling up SSF data globally
Emerging threats and opportunities for SSF to 2030	Improving the technology on small-scale vessels	Strengthening self-esteem and self-organisation in SSF
Contested SSF: about equity, equality, justice,	Emerging niche markets for SSF value added goods	Gentrification and other changes to working

power		waterfronts
Building cultural appreciation of SSF in societies	The prospects for sustainability certification in SSF	Reducing SSF food wastage and enhancing food security
Occupational health and safety in fishery livelihoods	Why should we seek to illuminate hidden harvests	Monitoring, evaluating, learning, adapting in SSF: how?

The talk circles will be conducted in English, Spanish, French and Portuguese. Fishers are free to join any circle they like and stay as long as they like. They are also invited to organize their own circles, in any language of their choice.

In addition to these ‘free flow’ talk circles, five “special topics” talk circles will also be organized during the same time period.

Topics	Host
VITAL FISHERIES: Setting pathways for the implementation of International Guidelines for Small-Scale Fisheries in Brazil	Sérgio M. G. de Mattos, Ministry of Planning, Brazil
“Fisheries learning exchanges (FLEs)”	Patrick McConney, University of the West Indies, Barbados
Making space for youth/women/newcomers in a highly regulated & resource limited fishery	Kimberly Orren, Fishing for Success, Canada
Gender knowledge mapping	Katia Frangoudes, Université de Bretagne Occidentale, Brest, France
Management and empowerment of small-scale fisher organizations, with the ultimate goal of socially sustainable small-scale fisher communities	Vishwanie Mahara, WWF, USA

## SPECIAL SESSION

### Special Session #6: Is migration a pathway out of poverty? Gendered vulnerabilities and capabilities in fishing communities in Asia

Tuesday, October 23 <sup>rd</sup> , 13:00-14:30	Location: Tharathong II
Organized by: Ragnhild Lund, Norwegian University of Science and Technology, Norway	

#### Synopsis

This study presented at this session deals with a transdisciplinary project on “Migration and collectives/networks as pathways out of poverty: Gendered vulnerabilities and capabilities among poor fishing communities in Asia”. The session will cover the findings of research conducted in Cambodia, India and Sri Lanka under the above collaborative project. We shall present the findings of our research and discuss transformations taking place in fishing communities in the

study countries. We shall also provide policy recommendations based on our findings for the future of small-scale fisheries. The main objective of the research project is to improve our understanding of whether migration is a potential route out of poverty for women and men in fishing communities in these countries. The research team seeks to generate an innovative, gendered analysis of economic, social and subjective dimensions of poverty and well-being in fishing communities and how internal and external migration are responses to a range of environmental (resource depletion, seasonality, natural disasters, climate variability) and political-economic (market, state/policy, conflict) changes.

The presenters will address the following topics:

1. A gendered analysis of economic, social and subjective dimensions of poverty and well-being in fishing communities resulting from internal and external migration. This includes responses to a range of environmental and political-economic changes.
2. The role of social networks and collective action, informal and formal, in advocating for supportive policies for migrant workers and their communities in reducing risks, violence and conflicts, and enabling them to move into more secure livelihoods.

The proposed session covers the conference theme ‘Transdisciplinarity and Transformation’ and contributes to the main objectives identified in the Sustainable Small-Scale Fisheries (SSF) guidelines. The proposed session includes presenters from different disciplinary and country backgrounds with varying years of experience.

<b>Speakers</b>	<b>Title</b>
Ragnhild Lund	Introduction to study of well-being in contexts of vulnerability and precariousness
Nitya Rao	Moving in and out: Capitalisation, Migration and the Masculinisation of small-scale fisheries in coastal Tamil Nadu
Ragnhild Lund	Well-being and Mobility of Female Heads of Households in Vulnerable and Precarious Situations: The Case of a Fishing Village in South India
Kyoko Kusakabe	Migration in fishing communities: gender and non-farm work in fishing communities in Cambodia
Nireka Weeratunge	To Migrate or Not: Social well-being and gendered household decision-making in fishing communities in Sri Lanka
Ramani Gunatilaka	Migration, mobility and the distribution of consumption in fishing communities In Cambodia, India and Sri Lanka

**REFRESHMENT BREAK / E-POSTER SESSION (15:00-15:30)**

**E-POSTER SESSION #4**

Tuesday, October 23<sup>rd</sup>, 15:00-15:30

Location: Exhibition Area

Natasha Stacey	Fisheries livelihoods do not guarantee food and nutrition security in coastal communities of Flores, Eastern Indonesia
Misael A. Sosa Ávila	Characterization of artisanal fishing in Carmen Island, Campeche
Natali Piccolo	Quality of life and living conditions in small-scale fisheries in Southeastern coast, Brazil
Natali Piccolo	Sustainable fishing in Mexico: Where are we and what do we need to improve?

**CONCURRENT SESSION #2 (15:30-17:30)**

Time	Session title	Location
15:30-16:30	Special Sessions: ➤ #7: Assessing and managing small-scale fisheries under data and capacity limitations: what's working? ➤ #8: Reducing bycatch in small-scale fisheries: experiences from Brazil	Tharathong II
16:30-17:30		Tharathong II
15:30-16:30	Special Sessions: ➤ #9: Market and trade challenges for small-scale fisheries: The need for innovation ➤ #10: Transdisciplinarity in small-scale fisheries of India	Tharathong I
16:30-17:30		Tharathong I
15:30-17:30	Special Session #11: Women and Gender relations in Fisheries, aquaculture, and coastal communities	Nanta II
15:30-17:30	Regular Session #2: Dealing with data/knowledge limitation	Nanta I
15:30-17:30	Special treat # 2: "PESCA KUCHA"	Lanna

### **Special Session #7: Assessing and managing small-scale fisheries under data and capacity limitations: what's working?**

Tuesday, October 23 <sup>rd</sup> , 15:30-16:30	Location: Tharathong II
Organized by: Nicolas L. Gutierrez, Food and Agricultural Organization of the United Nations, Italy	

#### **Synopsis**

Overexploitation and improper management of fishery resources have undermined stock health with critical impact on biodiversity, food security and livelihoods. Around 33 percent of world's fish stocks are overexploited, while ca. 60 percent are considered maximally-sustainably fished therefore achieving their long-term maximum yield. Although successful management of fisheries depend on ecological, social and economic attributes, evidence has demonstrated that reliably assessed stocks have a better likelihood of being efficiently managed and therefore sustainable. However, ca. 50% of the total wild catch production is currently without statistical assessments of stock status. This percentage increases drastically when considering small-scale fisheries in developing countries, mostly due to lack the financial and human resources for proper assessment and monitoring. In this context, the development and implementation of novel assessment and management approaches for data-limited fisheries can contribute to science-based decision-making resulting in sustainable development. In fact, there are few established data-limited methods to assist in the provision of management advice. However, most of them are still technically complex therefore inaccessible to many developing countries. Thus, it is imperative that (1) we invest additional efforts on further developing, testing, and implementing assessment and management approaches that can be used in data-limited, capacity limited small-scale fisheries globally; and (2) we document such approaches already being implemented in many jurisdictions globally and resulting in sustainable small-scale fisheries. In this Session, we aim at introducing the current state of the data-limited, capacity limited approaches as well as some real-world examples leading to successful management of small-scale fisheries.

#### **Speakers**

- Nicolas L. Gutierrez
- John Gabriel Ramírez
- Jeremy Prince
- Steve Box

### **Special Session #8: Reducing bycatch in small-scale fisheries: experiences from Brazil**

Tuesday, October 23 <sup>rd</sup> , 16:30-17:30	Location: Tharathong II
Organized by: Rodrigo Pereira Medeiros, Center for Marine Studies. Federal University of Paraná, Brazil; Fabio Hazin, Federal Rural University of Pernambuco, Brazil	

## Synopsis

This special session will explore how bycatch issues have been addressed in Brazilian small-scale trawling through the project. “Sustainable management of bycatch in the Caribbean and Latin American shrimp trawl fisheries (FAO/GEF)” – REBYC-II LAC. Selected case studies in Brazil have been developing actions that include scientific experiments to test bycatch reduction devices (BRDs), socioeconomic assessments on bycatch use and dependence, and research and outreach activities to bridge science to decision-making. Experiences from the south and northeast Brazil will be presented in order to open discussions on topics such as information gathering, science to action and how to address bycatch problems in a context of food insecurity, poverty, and poor management.

### Speakers

- Fabio Hazin
- Rodrigo Pereira Medeiros
- Vanildo Souza
- Thierry Fredou
- Luiz Felipe Dumont

## Special Session #9: Market and trade challenges for small-scale fisheries: The need for innovation

Tuesday, October 23 <sup>rd</sup> , 15:30-16:30	Location: Tharathong I
Organized by: Jose J. Pascual-Fernández, Universidad de La Laguna, Brazil; Cristina Pita, CESAM, University of Aveiro, Portugal; Alicia Said, Memorial University of Newfoundland, Canada	

## Synopsis

Securing the livelihoods of small-scale fishers entails improving their capacity to sell their catch, receive remunerative prices and to add value to their catches. In general, catches from small-scale fisheries (SSF) have a superior quality and freshness, but this does not always facilitate a better price or higher demand. This is mostly because local fresh fish obtained by SSF with sustainable gears are often not adequately differentiated from the catches of industrial fleets, or even furtive fishing. Furthermore, small-scale fishers are not empowered to control the value chain and the price they obtain for their fish. Traditional small-scale catches marketing strategies are ill-adapted to new scenarios dominated by global markets, where supermarkets chains and large companies take the control.

Research needs to be carried out into actual or potential strategies to add value and improve the market penetration of small-scale fisheries. It is important to know about existing strategies (e.g., certification, eco-labelling, direct selling, alternative food networks, collective labels, local small-scale processing), and under what circumstance/es they could provide a real alternative for small-scale fisheries. In this context, a special focus must be placed on how fisher organizations play a role or have the potential to engage in innovative fish marketing strategies for their members. It is also important to know what

consumers are buying and why, and in what ways consumer preferences could be refocused to a efficient use of local potential resources. In summary, market innovation for SSF is a key factor to improve its long-term viability.

Speakers	Title
Cristina Pita	Marketing strategies in small-scale fisheries: Efforts to differentiate and add value to small-scale fisheries products
Jose J. Pascual-Fernández	From transdisciplinary research to implementation: market innovations in small-scale fisheries in Tenerife (Spain)
Silvia Salas	Value chain structure of the shark and octopus' fisheries: between conservation and market certification
Amalednu Jyotishi	Understanding change and continuity in urban fish markets: implications for food security
Chikondi Manyungwa	An analysis of perceptions and social relations on women fish collectors on Lake Chilwa
Raymond Ayilu Kwojori	Informal artisanal fish trade in West Africa: improving cross-border trade

### Special Session #10: Transdisciplinarity in small-scale fisheries of India

Tuesday, October 23 <sup>rd</sup> , 16:30-17:30	Location: Tharathong I
Organized by: Prateep Nayak, University of Waterloo, Canada	

#### Synopsis

This session focuses on understanding social-ecological change and prospects for transformation in the small-scale fisheries of Bay of Bengal, India using transdisciplinary perspectives. Fishing communities here are witnessing major shifts and rapid transformations that reflect moving from tradition to 'modernity', from fishing to radically different occupations, from being place-based to migration, and from multi-species diverse ecosystem to forced aquaculture. These processes of rapid transformation require careful documentation and analysis. A series of presentations will highlight: (1) Cultural transformations in fishing communities and methodological insights into the history and practices of a cultural community; (2) Linking relational wellbeing and transformation, and how fundamental decisions about change in lifestyle amidst rapid changes are actually driven by relationships, comparisons and perceived threats and benefits. (3) Importance of stories and local narratives about fish, fishing and fisher people in making sense of ongoing transformations. (4) Significance of multimodal data for capturing the many faces of ongoing transformations and building alternate scenarios for possible futures. The session will distil multiple perspectives and approaches to study changes taking place in the small-scale fisheries of the Bay of Bengal coast and emerging trends towards further transformation.

Speakers	Title
----------	-------



Priyadarshi Patnaik	Understanding cultural transformation among fishing communities in Chilika Lagoon, Odisha: Towards a multi-modal methodological framework
Rashmi Ranjan Behera	Relational well-being and transformation: Case studies from Chilika lagoon
Archita Chatterjee	Understanding linkages between women empowerment and community well being: Insights from the east Kolkata wetlands and Deepor Beel (wetland), Assam
Suchitra Pramanik	Fish stories, local, global, past and present: Understanding change through narratives
Raju Mullick	Creating a multimodal database for capturing cultural data on small-scale fisheries

### **Special Session #11: Women and Gender relations in Fisheries, aquaculture, and coastal communities**

Tuesday, October 23 <sup>rd</sup> , 15:30-17:30	Location: Nanta II
Organized by: Katia Frangoudes, Université de Bretagne Occidentale, Brest, France	

#### **Synopsis**

Women and gender in fisheries are critical global topics. During the past 40-45 years, feminist and gender researchers have made significant contributions to the field of social science, revealing the importance of gender to a better understanding of human interactions within coastal communities and fisheries. However, research work on gender/women has not been equally visible across the various sub-disciplines. For example, while a gender lens has contributed to change the various research fields such as agriculture, the impact has been less in fisheries research. Today the interest in gender and fisheries is growing, as well demonstrated in the many contributions to conferences, conference proceedings, reports, journal special issues and books. The interest in, and importance of, this topic has not yet been adequately represented in refereed fisheries journals. The publication of MAST special issue on women/gender in fisheries will contribute to the development of the research about this issue. It is within this objective that the women/gender in fisheries TBFI organises a special session at WSFC to launch the publication of special issues of MAST.

<b>Speakers</b>	<b>Title</b>
Sarah Harper	The role of Indigenous women in transforming fisheries governance
Madeleine Gustavsson	Exploring the changing role(s), identities and wellbeing of women in small-scale fishing families
Carmen Pedroza	The gender dimensions of fish processing in Lake Chapala and the determinants of bargaining power
Kate Barclay	Integrating gender into fisheries management and

	development: designing a toolkit for Pacific Island countries
Maira Borgonha	Women, squirrelfish and mangoes: Exchanges by the seashore
Kumi Soejima	The change of women's participation in Japanese small-scale fisheries and gender perspective
Maria Pena	Understanding working women's issues and developing practical solutions for their improved fisheries occupation and domestic life: a case study of the Central Fish Processors Association (CFPA) in Barbados
Jorge Torre Cosio	New women roles towards sustainable small-scale fisheries: lessons from field stories, Mexico
Holly Hapke	Women and gender relations in fisheries, aquaculture and coastal communities
Kimberly Orren	Fishing for Success: engaging girls & women in fishing

## **Regular Session #2: Dealing with data/knowledge limitation**

Tuesday, October 23<sup>rd</sup>, 15:30-17:30

Location: Nanta I

**Chair: Alida Bundy**

<b>Speakers</b>	<b>Title</b>
Ishaan Khot	Community-based monitoring of pole and line tuna fisheries in the Lakshadweep Archipelago, India: Inclusive approaches for sustainable management
Yiming Luo	Scoping of small-scale fishing in Hainan, China
Paulo Vasconcelos	Comprehensive and multidisciplinary studies for sustainably managing a data-poor small-scale fishery targeting gastropods in southern Portugal
Matthew Roscher	The big data transforming small-scale fisheries: The state of Information and Communication Technologies in the Asia-Pacific region
Miguel Gaspar	The "ghost" small-scale fleet: how to make it visible?
Emily Farr	Local ecological knowledge in managed fisheries: A Maine case study
Patricia Amorim	Snapper and grouper fisheries worldwide: knowledge and status under data limitations
Nachiket Kelkar	Riverine ecology and institutional interplay: treacherous regimes and precarious fisheries in the Ganga River, Bihar, India
Adi Susanto	Seawater battery with common electrodes as energy source for fishing lamp of lift net fisheries

Eva Coronado	Disentangling complex systems: A typology for small-scale fisheries
Ollin Gonzalez C.	How to systemize and complement local knowledge with scientific knowledge for decision making in small-scale fisheries: A case study of the Gulf of California, Mexico

## **Special Treat 2: "PESCA KUCHA" - 20/20 presentation of small-scale fisheries research**

Tuesday, October 23<sup>rd</sup>, 15:30-17:30

Location: Lanna

**Moderator: Ratana Chuenpagdee**

<b>Speakers – Group 1</b>	<b>Title</b>
Jorge Torre	Crafting and scaling up a leadership program towards sustainability in small-scale fishing communities in Mexico
Miguel Lorenzi	The same but different – a rapid assessment of fishing boats characteristics
Rebecca Borges	Spatial dynamics of crab fisheries on the Amazon coast: integrated management of adjacent protected areas to maintain resource sustainability
Mandy Doddema	Tuna middleman practices: response dynamics to traceability interventions
Alba Aguión	The stalked barnacle in Southern Europe: a comparison of bottom-up and top-down management systems of a benthic resource
Melinda Agapito	Small-scale, smaller footprints?

<b>Speakers – Group 2</b>	<b>Title</b>
Sérgio Mattos	A decline of the profession of artisanal fishers in Rio Formoso (PE): A historic contextualization in Brazil
Jariya Sornkliang	Understanding gender dynamics, livelihood opportunities and markets along the value chain in Pu Lone Tone Tone, Myanmar
Aung Kyaw Thein	A participatory vulnerability study to assess the state of social protection and poverty dimensions in the Myanmar fisheries sector.
Ana Carolina Esteves Dias	Depicting wellbeing-ecosystem services bundles in fisheries as a path for conflict resolution in Marine Protected Areas
Evan Andrews	Human Behaviour and its Implications for the Governability of the Northern Shrimp Inshore Fishery, Newfoundland, Canada

## CULTURAL SHOW

Tuesday October 23<sup>rd</sup>, 17:30-19:00

Grand Nanta Ballroom

**Host: Ratana Chuenpagdee**

### Program:

- ❖ A Glimpse of Asia by Chitra Devi Gopalakrishnan (Asia)
- ❖ A song for Kinmedai fishermen in Inatori fishing community: The boss of Kinmedai. by Yinji Li (Japan). \*Kinmedai (*Splendid alfonso*, *Beryx splendens*) is the most popular fish in Inatori fishing community, Shizuoka, Japan.
- ❖ Dansa suru boek husi Timor-Leste (Shrimp catching dance from Timor-Leste), by Agustinha Duarte and Kimberley Hunnam, Timor-Leste
- ❖ Kalijai: A theatrical presentation unveiling the folklore of Odisha fishing communities, by Archita Chatterjee, Gouri Karambelkar, Pinaki Gayen, and other members of the IIT Kharagpur team (India)
- ❖ Ratnagarbha' Chilika, by Raghunath Balla (India)
- ❖ The Day of the Dead (*Día de Muertos*), by team of Mexican participants led by Silvia Salas and Maria Jose Espinoza-Romero (Mexico). The Mexican crew will be presenting "an offer" (*altar* in Spanish), which is a cultural tradition to honour friends and family members who have died and to support their spiritual journey. This traditional holiday was inscribed in the Representative List of the Intangible Cultural Heritage of Humanity by UNESCO.
- ❖ Unfolding stories through visuals: traditional storytelling through painting scrolls I, by Pinaki Gayen (visuals), Chirashree Srabani Rath (text), Priyadarshi Patnaik (overall conception), and team members from IIT Kharagpur, India (Archita Chatterjee, Gouri Karambelkar, Junmoni Borgohain, Rashmi Ranjan Behra, Arundhati Patnaik, Aratrika Patnaik, Raju Mullick, Suchitra Paramanik) (India)
- ❖ Unfolding stories through visuals: traditional storytelling through painting scrolls II by Pinaki Gayen (Visuals), Srabani Rath (Text) and Priyadarshi Patnaik (overall coordination). Other members: Arundhati Patnaik, Aratrika Patnaik, Archita Chatterjee, Gouri Karambelkar, Raju Mullick, Suchitra Paramanik, Rashmi Ranjan Behera, Junmoni Borgohain (India)
- ❖ Uniquely of Javanese Clothes "Batik" as Cultural Heritage in Indonesia by Erwin Prayogi (Indonesia)
- ❖ Weave-a-With by Kimberly Orren (Canada). Ropework or marlinspike seamanship is an ancient skillset common to sailors and fishermen around the world, even today. Join us and learn how to weave rope into a simple withe that you can keep reminding yourself of the ties that bind us all together!

**PLENARY SESSION #5 - WALK-THE-TALK IN SMALL-SCALE FISHERIES GOVERNANCE**

Wednesday, October 24<sup>th</sup>, 8:30-10:30

Location: Grand Nanta Ballroom

**Chair: Nicole Franz**

In June 2014, the FAO Committee on Fisheries (COFI) endorsed the Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication (SSF Guidelines), the first ever international instrument specifically dedicated to small-scale fisheries. This endorsement marked the conclusion of several years of work developing the SSF Guidelines through consultations and negotiations. The preparatory work on the instrument was carried out in close collaboration with governments, civil society organizations (CSOs) representing fishers and fish workers, academia, regional fishery bodies (RFBs), and other organizations and stakeholders. While the finalization and endorsement of the instrument itself were of critical importance, the real challenge lies in its implementation. The SSF Guidelines will only become effective if their provisions are put into practice. But “walking the talk” is not without any challenges. In this session, we will hear what governments have been doing to promote the implementation of the SSF Guidelines, as well as support the sustainable small-scale fisheries, more broadly.

**Debriefing from Tuesday**

**Book Launch**

**Policy panel discussion: "Roles of governments in the implementation of the SSF Guidelines"**

- Adisorn Promthep, Department of Fisheries, Thailand
- Lilian Ibengwe, Ministry of Livestock and Fisheries, Tanzania
- Hary Christijanto, Department of Fisheries Resources Management, Indonesia
- El hadji Abdoulaye Coume, Ministere de la Peche et de l'Economie Maritime, Senegal
- Christopher Arthur, Fisheries Department, Vanuatu

**REFRESHMENT BREAK / E-POSTER SESSION (10:00-10:30)**

**E-POSTER SESSION # 5**

Wednesday, October 24<sup>th</sup>, 10:00-10:30

Location: Exhibition Area

Serena Lomonico

Overcoming management inefficiencies in Peru's

	artisanal fisheries: A collaborative learning experience between the benthic fishers of Ancon and The Nature Conservancy in Peru
Claire Collins	Actors, social dynamics and trends in shark fisheries in South Indian fisheries
Rodrigo Pereira Medeiros	The interpretations of human dimensions in three Brazilian marine protected areas and small-scale fisheries governance
Kyunghoi Kim	Development of new capping material for remediation of contaminated sediment
Dohyung Kim	Low-value fish used as feed is a source of disease in farmed fish

## PLENARY SESSION #6 - INFORMING AND INFLUENCING FISHERIES POLICIES

Wednesday, October 24<sup>th</sup>, 10:30-12:00

Location: Grand Nanta Ballroom

**Chair: John Kurien**

A balanced and equitable partnership approach and cross-sectoral collaboration is fundamental for small-scale fisheries governance, including in the implementation of the SSF Guidelines. There are clearly different roles for different actors, groups and organizations to play. The extent to which these people have influence in how decisions are made and policies are implemented is a question that is explored in this session. The session is organized partly as a 'response' to the previous session, answering questions such as the strengths and gaps you see in how the SSF Guidelines are implemented, what you/your organization are doing to contribute to addressing the policy gaps, and what are the remaining questions and challenges in moving forward.

### Roundtable discussion: 'Policy Influencers' take on the implementation of the SSF Guidelines and beyond

- Sebastian Mathew, International Collective in Support of Fishworkers (ICSF), India
- Philippa Cohen, WorldFish, Malaysia
- Jorge Torres, Comunidad y Biodiversidad (COBI), Mexico
- Imani Morrison, Oak Foundation, Switzerland
- Fabio Hazin, Federal Rural University of Pernambuco, Brazil

## LUNCH @ River Terrace (12:00-13:00)

## CONCURRENT SESSION #3 (13:00-15:00)

Time	Session title	Location
	Special session #12: Transforming	

13:00-15:00	small-scale fisheries in Myanmar: Lessons and visions from co-management approaches of the Myanmar Fisheries Partnership	Tharathong II
13:00-15:00	Special session #13: Transdisciplinary approach for the implementation of the SSF Guidelines and the SDGs	Tharathong I
13:00-15:00	Regular Session #3: Protecting livelihoods, promoting wellbeing and values	Nanta II
13:00-15:00	Regular Session #4: Tradition and innovation in governance	Nanta I
13:00-15:00	Speed session #2	Lanna

**Special session #12: Transforming small-scale fisheries in Myanmar: Lessons and visions from co-management approaches of the Myanmar Fisheries Partnership**

Wednesday, October 24 <sup>th</sup> , 13:00-15:00	Location: Tharathong II
Organized by: Tara Sayuri Whitty, International Union for Conservation of Nature (IUCN), Myanmar; Barry Flaming, Wildlife Conservation Society, Myanmar	

**Synopsis**

Myanmar is currently undergoing unprecedented reforms, including decentralization of natural resource management. This represents exciting opportunities for transforming fisheries management in Myanmar, with management over inland and inshore fisheries devolving to sub-national states and regions, and new state/regional committees and policies for coastal management being developed. The Myanmar Fisheries Partnership (MFP) is a knowledge-exchange platform among diverse actors and stakeholders (fishers, government departments, Parliament, the private sector, NGOs, academia) working to support development of fisheries co-management in the country. The special session will share and discuss the work of MFP partner projects, as well as implications of developing co-management in the dynamic social and political context of Myanmar, including perspectives presented by representatives of fisher organizations linked to these projects. Across these projects, common threads include: working with local communities, government agencies, and other key stakeholder groups to build capacity for co-management; supporting the formation of fisher organizations; promoting policies to enable co-management processes and small-scale fisher rights; and strengthening and diversifying livelihoods. Through presentations and a discussion panel, this session will share experiences and clarify the role of partnership efforts and co-management in the future of Myanmar's small-scale fisheries and help strengthen future work through synthesizing lessons learned and outlining approaches to overcome challenges.

**Speakers**

- Tara Sayuri Whitty

<ul style="list-style-type: none"> <li>➤ Thaung Htut</li> <li>➤ Bobby Maung</li> <li>Romain Langeard</li> </ul>
<b>Panelists Discussion # 1</b>
<ul style="list-style-type: none"> <li>➤ Soe Lwin</li> <li>➤ Myint Oo</li> <li>➤ Aung Myo Naing</li> <li>➤ Soe Win</li> </ul>
<b>Panelists Discussion # 2</b>
<ul style="list-style-type: none"> <li>➤ Aung Kyaw Thein</li> <li>➤ Khin Maung Soe</li> <li>➤ Bobby Maung</li> </ul>

### **Special session #13: Transdisciplinary approach for the implementation of the SSF Guidelines and the SDGs**

Wednesday, October 24 <sup>th</sup> , 13:00-15:00	Location: Tharathong I
Organized by: Svein Jentoft, Norwegian College of Fishery Science, UiT-The Arctic University of Norway and Ratana Chuenpagdee, Memorial University of Newfoundland, Canada	

#### **Synopsis**

In governance, we rely of the conceptual framework we have until we replace it with another one. In this sense we always walk the talk, we do what we say, and it has nothing to do with organizational hypocrisy or not. We may not always be aware of the limiting effects of the language it contains, including scientific language. Scientific disciplines are institutions that not only come with a topic, but also with certain assumptions of how the world works. These assumptions and the theories they lead to are conceptualized in ways we take for granted, because we are disciplined to do so. The discipline of disciplines eventually also tend to discipline our daily language and our political discourse. In many instances, the problem under scrutiny is wicked, in the sense that it cannot easily be framed by one discipline: it needs both transdisciplinary work and ethical reflection. The poverty-climate change nexus is such a problem – it is super-wicked. For transdisciplinary work to take effect, we need to begin by critically examining on our concepts, what they do and do not. They were not handed down from the tower of Babel, but are social contracts and constructs that must be put to continuous test in a world that is ever changing. The implementation of the SSF Guidelines depends on our ability think twice about our language, and to critically reflect on their performativity. This is not only because what concepts allow us to see. Equally important is what concepts tell us to do. The session explore what transdisciplinarity means, in theory and practice.

<b>Speakers</b>	<b>Title</b>
Svein Jentoft	Transdisciplinarity for small-scale fisheries governance
Shehu Akintola	Sustainable small-scale fisheries in Nigeria-



	adopting open transdisciplinarity paradigm for transformation
Milena Schreiber	Governing the governance: Small-scale fisheries in Europe with focus on the Baltic Sea
Minerva Arce-Ibarra	Progress and perspectives on the implementation of the SSF Guidelines and the SDGs in Mexico's artisanal fisheries
Suvaluck Satumanatpan	Resilience of small-scale fishers in the Gulf of Thailand
Miguel Gonzalez Perez	Indigenous artisanal fisheries in Nicaragua: governance and autonomy
Moenieba Isaacs	Can international instruments like the SSF guidelines and SDGs prioritise women's interests, rights and access to land and marine resources- a case study of Buffeljagsbaai, South Africa?
Sérgio Mattos	Defending the Beach: Transdisciplinary Approaches in a Small-Scale Fisheries in Pernambuco, Brazil

### **Regular Session #3: Protecting livelihoods, promoting wellbeing and values**

Wednesday, October 24<sup>th</sup>, 13-15:00

Location: Nanta II

**Chair: Derek Johnson**

<b>Speakers</b>	<b>Title</b>
Antônio Marcos Muniz Carneiro	Ardentia Project: Sustainable valorization of artisanal fishery without increasing the fishing effort
Marta Leite	Bridging resilience and wellbeing: a transdisciplinary approach to understanding fisher behaviors in the context of change in coastal Southeastern Brazil
Amy Diedrich	The role of social capital in livelihood diversification in small-scale fishing communities in Papua New Guinea
Mtui Sallema Rose	Investments in small-scale fishing communities: A transformation of coastal fishing communities' livelihoods?
Fikret Berkes	Rebuilding healthy communities and healthy fisheries
Richard Nyiawung	Examining new environmental governance initiatives for developing country small-scale fisheries: Fishery Improvement Projects (FIPs) in the African context
Matt Watson	What is an MSC Project Pre-Assessment (PPA) and how can it support small scale fishery improvements?
Clara Obregón Lafuente	Golden Fish: evaluating and optimising the

	biological, social and economic returns of small-scale fisheries in Western Australia
Sarah Appiah	Livelihood Vulnerabilities among Women in small scale fisheries: Evidence from the Gomoa West District of Ghana

#### **Regular Session #4: Tradition and innovation in governance**

Wednesday, October 24<sup>th</sup>, 13-15:00

Location: Nanta I

**Chair: María José Barragán-Paladines**

<b>Speakers</b>	<b>Title</b>
Anne Hayden	Case studies in co-management from the Gulf of Maine: Challenges and opportunities
Lina M. Saavedra-Díaz	Broken dreams: a study of marine small-scale fishing communities requesting regulation, while the Colombian fishery administration disregards them
Annie Lalancette	Competing voices: Indigenous rights in the shadow of conventional fisheries management in the tropical rock lobster fishery in Torres Strait, Australia
Grace Orirana	Spreading community-based resource management: testing the “lite-touch” approach in Solomon Islands
Serena Lomonico	Envisioning learning platforms for transforming sustainable small-scale fisheries: informing policy innovation from the bottom
Sarah Lawless	Opportunities to realize social transformations in small-scale fisheries
Paula Satizábal	Opportunities, threats and challenges: exploring emerging blue economy discourses and practices in the coastal Philippines
Alejandro Acosta	Gulf Caribbean Fisheries Institute 70 years providing services to Caribbean and Gulf of Mexico fisheries
Joe Zelasney	Implementing the FAO’s Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication to Achieve the 2030 Agenda for Sustainable Development

#### **Speed Session #2**

Wednesday, October 24<sup>th</sup>, 13:00-15:00

Location: Lanna

**Chair: Maria Jose Espinoza-Romero**

<b>Speakers – Group 1</b>	<b>Title</b>
Qijin Wang	Nutrition, food safety and dietary pattern analyses of Prahoc consumption in rural villages in Siem Reap Province, Cambodia
Anukorn Boutson	Small-scale fishing practices and the catch according to the monsoon around the coastal area of Laem Phak Bia, Petchaburi province
A K M Firoz Khan	Community based fisheries management (CBFM) in Inland Capture Fisheries and its Importance on to Productivity, Bio-diversity and Income: an example from Bangladesh
Cesar Augusto Chiroso Horie	Fishing agreements in the Brazilian Amazon: challenges of participative management for strengthening sustainable fishing
Lowrence Epstein	Small-scale fisheries: a pillar of belize's sustainable development strategy
<b>Q&amp;A period (5 min)</b>	
Dina Muthmainnah	Fishery activity and fishers' performance in Barito River, Indonesia
Ruby Grantham	Using seasonal calendars to understand expectations and livelihood structures
Felicia Cruz	Empowering coastal communities: Belize's innovative approach of multi-stakeholder collaboration
Alfredo Giron-Nava	Managing at Maximum Sustainable Yield may not ensure economic well-being for small-scale fishers
Brennan Lowery	Telling stories for sustainable rural coastal communities: exploring a storytelling approach for local sustainability indicators and global implementation
<b>Q&amp;A period (5 min)</b>	

<b>Speakers – Group 2</b>	<b>Title</b>
Tamano Namikawa	The value of small-scale fisheries in urban areas
Edgar Torres	Disentangling catch profiles given fishing gears used by small-scale vessels in Yucatán, México
Rebecca Borges	Ecological core indicators for assessing sustainability of data-deficient small-scale fisheries
Shehu Akintola	Small-Scale Fisheries Guidelines implementation in Nigeria: challenges and prospects
Luis Amado Ayala-Pérez	The devil fish in Mexico (Loricariidae: Pterygoplichthys), an uncontrolled and underutilized invasion
<b>Q&amp;A period (5 min)</b>	
Ana Carolina Esteves Dias	Wellbeing-ecosystem services bundles for adaptive governance of coastal systems experiencing rapid change
Sebastian Tapia-Lewin	Distal impacts of aquarium trade: Exploring the

	emerging sandhopper ( <i>Orchestoidea tuberculata</i> ) artisanal shore gathering fishery in Chile
John Gabriel Ramírez	Improving stock assessment and management advice for data-poor small-scale fisheries through participatory monitoring
Monica Engel	Small-scale fisheries people: The importance of individual cognition to promote fisheries sustainability
<b>Q&amp;A period (5 min)</b>	

#### REFRESHMENT BREAK / E-POSTER SESSION (15:00-15:30)

##### E-POSTER SESSION #6

Wednesday, October 24<sup>th</sup>, 15:00-15:30

Location: Exhibition Area

Thierry Fredou	Ichthyofauna bycatch of the artisanal fishery of penaeid shrimps in of Pernambuco, Northeast of Brazil
Moh Ardiyansah	Co-Management Model for Karimunjawa Water: A Choice between Economic and Environment for Sustainable Development
Maira Borgonha	Side by side: fishers and researches building marine conservation together
Katia Frangoudes	Participative methods for a better understanding and management of moored fish aggregating devices (MFADs)
Julia Ramos Miranda	Social, economic, demographic, biological aspects of the artisanal fisheries in Champoton, Mexico: Elements towards transdisciplinarity

#### CONCURRENT SESSION #4 (15:30-17:30)

Time	Session title	Location
15:30-16:30	Special sessions: ➤ #14: Enhancing coastal livelihoods: Assessing the contributions of small-scale fisheries to livelihoods and food security and opportunities for improvement	Tharathong II
16:30-17:30	Special session ➤ #15: Community based conservation measures and nutrition outcomes in Rice Field Fisheries	Tharathong II
	Special sessions:	

15:30-16:30	➤ Special session #16: Improving SSF sustainability through a multi-stakeholder collaborative approach: the MSC multi-fisheries pre-assessment model	Tharathong I
16:30-17:30	➤ Special session #17: The Importance of Strong Fishing Organizations for Fisheries Sustainability: A global to local perspective	Tharathong I
15:30-17:30	Special session #18: Small-scale Fisheries in Latin America: challenges, current trends and future opportunities	Nanta II
15:30-17:30	Regular session #5: Multiple tools, approaches and perspectives in SSF governance	Nanta I
15:30-17:30	Regular session #6: Multiple demands, multiple governance challenges	Lanna

**Special session #14: Enhancing coastal livelihoods: Assessing the contributions of small-scale fisheries to livelihoods and food security and opportunities for improvement**

Wednesday, October 24 <sup>th</sup> , 15:30-16:30	Location: Tharathong II
Organized by: Natasha Stacey, Charles Darwin University, Australia	

**Synopsis**

Our panel consists of 4 papers which consider a variety of interrelated issues associated with small-scale fisheries livelihoods and food security in rural coastal contexts in Indonesia and Timor Leste. The papers will investigate issues such as livelihood dependence; food security and nutrition; gender; community engagement in livelihood programs and recommendations for enhancing interventions. By understanding the context and identifying potential barriers we can identify opportunities to better direct policy and entry points for improvements, sustain livelihood diversity and reduce vulnerability.

Speakers	Title
Natasha Stacey	Enhancing coastal livelihoods in Indonesia: An evaluation of recent initiatives
Pia Harkness	Assessing the impact of coastal livelihood development programs in Savu-Raijua, eastern Indonesia
Kim Hunnam	Possible scenarios for enhancing benefits from a small-scale fishery in Timor-Leste: How can we avoid trade-offs between food security, nutrition and coastal livelihoods?
Natasha Stacey	An action research agenda for improving the visibility of SSF and their contributions

### **Special session #15: Community based conservation measures and nutrition outcomes in Rice Field Fisheries**

Wednesday, October 24 <sup>th</sup> , 16:30-17:30	Location: Tharathong II
Organized by: Kathryn Fiorella, Cornell University, USA	

#### **Synopsis**

Community-based management and nutrition outcomes are common themes in many fisheries around the world. This panel and discussion highlight the experience from rice field fisheries in the Mekong region, where fisher-farmer communities depend on fish to augment both incomes and nutrition. Rice field fisheries are a type of floodplain fishery in which dry season habitats are critical for maintaining fish populations and provide an opportunity to improve fish availability. Local communities can enhance and protect dry season habitats as Community Fish Refuges, allowing fish to grow and wait out the dry period until the next flood, when they can return to flooded areas to spawn. Our panelists include implementation experts and researchers working on rice field fisheries. We will present data and field experience to illustrate the rice field fishery system, approaches to Community Fish Refuge governance and enhancement, and nutritional outcomes within the system. We invite questions and leave time for discussion, particularly on themes of the role of the fishery in a community, transforming fisheries, and ensuring community participation and nutritional benefits within small scale fisheries. We will close discussions and the experience of governance and nutrition in rice field fisheries with key takeaways that support the empowerment and well-being of small-scale fishing communities.

<b>Speakers</b>	
Yumiko Kura	Rice Field Fisheries enhancement: linking fish conservation with food and nutrition security
Miratori Kim	Building capacity for community governance of fish reserves
Shakuntala Thilsted	Common fish species in Cambodian Rice Field Fisheries make significant contributions to micronutrient intakes

### **Special session #16: Improving SSF sustainability through a multi-stakeholder collaborative approach: the MSC multi-fisheries pre-assessment model**

Wednesday, October 24 <sup>th</sup> , 15:30-16:30	Location: Tharathong I
Organized by: Amanda Lejbowicz, Marine Stewardship Council, United Kingdom; Matt Watson, Marine Stewardship Council, United Kingdom; Carlos Montero; Marine Stewardship Council, United Kingdom	

#### **Synopsis**

The Marine Stewardship Council (MSC) certification program is based on its standard for sustainable fisheries which provides a global framework of fisheries management best practices. The program often focuses on the value of

certification-market incentives driving genuine at-sea environmental improvements and increased traceability and transparency throughout supply chains. But beyond the direct benefits coming from market recognition, the MSC's standard and its assessment process bring a powerful tool to identify improvement needs from a more holistic level, regardless a final certification goal or not. Using this approach, fisheries are utilising the MSC standard as an independent, credible ground-truthing exercise before making wide-sweeping adjustments to their management framework to benefit all fisheries. This approach is now known as the multi-fisheries pre-assessment model. This collaborative approach is already helping improvements for small-scale fisheries in the Mediterranean region, Australia, India, Indonesia, Mexico, South Africa, the UK and West Africa. Inherent within a multi-fisheries pre-assessment is that its intended impact extends beyond the immediate project and it has the purpose of improving management especially for small-scale fisheries. For those fisheries that wish to pursue certification when their performance allows, engagement through a multi-fisheries pre-assessment offers a streamlined, stakeholder supported approach to sustainability. For those that chose not to pursue MSC, value is gained with management efficiencies being made at the broadest possible level. The goal of this panel is to learn from the experience of stakeholders involved in that kind of projects and to collect all inputs from the audience to improve the model.

#### Speakers

- Ignacio Sobrino
- Mathew Hourston
- Janti Djuari
- Roelof Brink
- Carlos Alvarez

#### **Special session #17: The Importance of Strong Fishing Organizations for Fisheries Sustainability: A global to local perspective**

Wednesday, October 24<sup>th</sup>, 16:30-17:30

Location: Tharathong I

Organized by: Amy Hudson Weaver, Sociedad de Historia Natural Niparajá, A.C., Mexico; Xavier Basurto, Duke University, USA

#### **Synopsis**

This session invites us to reflect on the role of SSF organizations, the importance they play in fisheries sustainability and their livelihoods, and how they can elevate the profile of SS fishers. To do this, first we will present results of a global analysis of the scientific literature on the status of theory and practice on governance of SSFs emphasizing the role of capacity building and empowerment as key elements for reforming fisheries governance. Next our FAO colleague will provide FAO's perspective on capacity building and empowerment, and how initiatives to strengthen fisheries organizations relate to SSFs guidelines implementation. Following, we will describe results of a large empirical study to diagnose the status of fishing organizations in Mexico, co-produced by academia, civil society organizations, and the fishing sector in collaboration with the federal government. This two-year project explored a novel process for

collecting data at different scales of organization (cooperatives, federation, and confederations). In only two years, this collaboration resulted in concrete changes to the rules of operation of the Mexican fisheries agency (CONAPESCA) and direct inputs for the development of a program for strengthening fishing organizations. Finally, a member from the Mexican Confederation of Fishing and Aquaculture Cooperatives (CONMECOOP) will present his own perspectives on the main lessons learned from this collaboration.

Speakers
<ul style="list-style-type: none"> <li>➤ Xavier Basurto</li> <li>➤ Nicole Franz</li> <li>➤ Amy Hudson Weaver</li> <li>➤ José Luis Carrillo Galaz</li> </ul>

### **Special session #18: Small-scale Fisheries in Latin America: challenges, current trends and future opportunities**

Wednesday, October 24 <sup>th</sup> , 15:30-17:30	Location: Nanta II
Organized by: Silvia Salas Márquez, CINVESTAV, Mexico & Maria José Barragán-Paladines, Charles Darwin Foundation for the Galapagos Islands/Charles Darwin Research Station, Ecuador	

#### **Synopsis**

Fisheries in Latin America and the Caribbean region (LAC) comprise a high diversity and complexity in the bio-geophysical, biodiversity, socio-economic dynamics, and cultural context. All this diversity gets reflected in the fishing operations in place and their context, posing rich socio-ecosystems to deal with, but also denoting a great challenge for assessment and manage. Papers presented in this session from the Caribbean, Atlantic and Pacific within the LAC region (Chile, Peru, Costa Rica, Mexico, Ecuador, Brazil, Caribbean countries), offer an interesting mosaic that illustrates complexity and dynamics of small-scale fisheries, within a wide-ranging scale, in terms of spatial distribution, governance systems, and challenges faced. Tools employed for assessment and management of SSF are also presented, discussion about gender issues and conservation strategies exemplify ways to deal with different type of problems to understanding and governing the small-scale fisheries in the region and promote conservation practices. Discussion also include questions regarding how to strength capacity of communities to generate self-enforcement schemes, building capacity within fishing communities, accounting for gender issues and identifying factors and conditions that can lead to viable and sustainable fisheries. During the session we will be encouraging discussion, searching for proposals for improving fisheries governance to achieve sustainable and viable fisheries in the region, securing hence the sustainability of fishing communities and marine resources.

Speakers	Title
Silvia Salas and María José Barragán-Paladines	Viability and sustainability of small-scale fisheries in Latin America and the Caribbean



Mirella Leis	Mapping fishers' perceptions of marine conservation in Brazil: An exploratory approach
Domingo Flores-Hernández	Small-scale fisheries of the South of Campeche, Mexico: Identification of management units through the métiers approach
Jennifer Beckensteiner	Interactions between the Chilean Territorial User Rights for Fisheries (TURFs) network and catch of benthic resources in open-access areas
Nicolas Rovegno	Catalyzing initiatives for improvements in a Fishery Improvement Project: Case study of the jumbo squid small scale fishery in Peru
Bertha Simmons	Caribbean Small-Scale Fisherwoman Learning Exchange in Costa Rica: Women's Voices
Patrick McConney	Gender-transformative approaches to development in coastal and fishing communities in the English-speaking Caribbean
Nelly de Paz	Encouraging fishermen as a strategy to ensure sustainability of small-scale fisheries in southern Peru
Maria Ignacia Rivera	The interplay between formal access regimes and peer-enforcement determines stewardship behavior of small-scale fisheries

### **Regular Session #5: Multiple tools, approaches and perspectives in SSF governance**

Wednesday, October 24<sup>th</sup>, 15:30-17:30

Location: Nanta I

**Chair: Alicia Said**

<b>Speakers</b>	<b>Title</b>
Nigel Martinez	The Belizean Fisher Experience
Anastasia Quintana	Weakly defined MPAs make space for small-scale fishers to pursue own interests
Philile Mbatha	Fisher livelihoods at odds with an expanding conservation estate? The case of South Africa's Small-Scale Fisheries sector
Dirk Steenbergen	The role of collective action institutions in the management and development of small-scale fisheries across the Asia Pacific
Roquellito Mancao	Beyond Marine Protected Areas: Leveraging Pride into Managed Access as a Strategy for Sustainable Coastal Fisheries in the Philippines
Erin Loury	Salty stories, fresh spaces: Lessons for aquatic protected areas from marine and freshwater experiences

Gazi Nurul Islam	The role of governance on social and ecological conditions of marine protected areas in Malaysia
Martin Purves	Bringing small scale tuna fisheries to the table for international policy reform
Salvador Rodriguez-Van Dyck	Commitments that transform: The establishment and renewal process of the first Fisheries Refugia network in Mexico
Ana Crisol Mendez Medina	Crime and punishment in Sian Ka'an fisheries: Community Enforcement Committees as networks of cooperation

### **Regular Session #6: Multiple demands, multiple governance challenges**

Wednesday, October 24<sup>th</sup>, 15:30-17:30

Location: Nanta I

**Chair: Sergio Mattos**

<b>Speakers</b>	<b>Title</b>
Timothy B. Werner	Report from a FAO workshop on reducing marine mammal bycatch in fishing and aquaculture operations
Matsui Ayumu	Who has rights for managing the coastal zone? Conflict between fishery and tourism industry in Noto-Jima, Noto Peninsula, Japan
Margaret Wilson	Social-ecological impacts of an herbivore fishing ban in rural Dominican Republic
Karly Miller	Promise or Peril: the role of tourism in transforming small-scale fisheries
Simon Funge-Smith	An ecosystem approach to promote the integration and coexistence of fisheries within irrigation systems
Laia D'Armengol	Co-management for conservation and development in a tropical small-scale fishery in Mexico
Juan Carlos Villaseñor-Derbez	Effectiveness of community-based marine reserves in small-scale fisheries
Christopher Giordano	The Emergence of Self-Governance within Northern Peru SSF Communities and Implications for future Regulation
Michael Fabinyi	A relational approach to food and water insecurity in specialised fishing communities: evidence from the Philippines
Yinji Li	A New Role for Fishermen's side in Japan: Fisheries to Umigyo, Fisheries Governance to Coastal Governance

**THURSDAY, OCTOBER 25<sup>th</sup>, 2018, FIELD DAY**

**Field trip to Kwan Phayao**  
**(see details in the congress kit)**

**FRIDAY, OCTOBER 26<sup>th</sup>, 2018, ACTION DAY****CONCURRENT SESSION #5 (08:30-10:00)**

<b>Time</b>	<b>Session title</b>	<b>Location</b>
08:30-10:00	Special session #19: Progress in the management and governance of SSF in Thailand	Tharathong II
08:30-10:00	Special session #20 Small-Scale Fisheries Management in West Africa: Sustainability Challenges and a Path Forward	Tharathong I
08:30-10:00	Regular session #7: Broadening the perspective in SSF governance	Nanta II
08:30-10:00	Regular session #8: The complex and dynamic world of small-scale fisheries	Nanta I
08:30-10:00	Speed session #3	Lanna

**Special Session #19: Progress in the management and governance of small-scale fisheries in Thailand**

Friday, October 26 <sup>th</sup> , 08:30-10:00	Location: Tharathong II
Organized by: Thailand Department of Fisheries	

**Synopsis**

If we all aim to catch fish as much as possible without thinking about the consequences, we will earn a lot of money in the beginning but regret in the end. We will ruin not only ourselves, but also community way and natural resources that we have been relying on for age. The more we gain benefit from the sea, the much more we need to pay it back, otherwise; there will definitely not be anything left for our offspring anymore.” said the Director General of Department of Fisheries of Thailand (DoF). The DoF has its aims to conduct and control fisheries resources management for sustainable utilization of fisheries products including participation of fishers, people and community in local resources fisheries management. Furthermore, we have facilitated and pushed forward the studies in every single branch of fishery and technology that have been extended from the researches in order to form and initiate the creative innovations.

Speakers	Title
Bunyarit Permnak	Small-scale fisheries in fishing ground of Andaman Sea towards Provincial Zoning Administration
Malasri Khumsri	Local stakeholder participation in Management of Community Ponds as an Aquatic Animal Food Bank: A case study of Sub-Soomboon Model, in Burirum Province, Thailand
Wirot Kongasa	The threadfinfish gillnet fishery of fishing villages in Nakhon Si Thammarat and Songkhla Provinces, Thailand
Waraporn Dechboon	Fisheries management in Panare fishing community, Pattani Province, Thailand
Atra Chaimongkul	Fishery Resources in Songkhla Lake using Sea Ranching Management with the Incorporation of fishery community
Ratchada Iddhibongsa	Potential improvement of traditional fishery product small-scale processors
Thakorn Kakhaikithawat	Sustainable Fisheries Management for small scale fisheries : Blue Swimming Crab and Mud Crab Sustainability Projects in Chanthaburi, Thailand

### **Special Session #20: Small-Scale Fisheries Management in West Africa: Sustainability Challenges and a Path Forward**

Friday, October 26 <sup>th</sup> , 08:30-10:00	Location: Tharathong I
Organized by: Najih Lazar, University of Rhode Island, Coastal Resources Center, USA	

#### **Synopsis**

Small-Scale Fisheries are a central element in the socio-economic fabric of coastal communities in West Africa. They contribute significantly to national economies and provide approximately 12 million jobs, 2.1 million tons of vital low-cost food protein that supplies more than half of the animal protein in the local diet. However, high population growth, increasing demand and poor governance has spurred widespread overfishing, overcapacity and illegal, unregulated, and underreported fishing. Fish landings have declined, depriving poor and vulnerable populations from sources of food, income and livelihoods. International donors have invested hundreds of millions of dollars in projects aiming to support sustainable exploitation of marine fisheries in West Africa. These projects have supported a suite of approaches that include fisheries co-management, improved science and information systems, private sector engagement, behavior change initiatives and value chain improvements. While progress towards sustainability is evident, the overall trends of many fisheries in West Africa remain alarming. Effort reduction is needed to reduce fishing mortality driving overfishing but there is a significant opposition from artisanal fishers. Debates on how to ameliorate short term socio-economic impacts of effort reduction on small scale fishing communities dominate much of the dialogues on the way forward. The University of Rhode Island's Coastal

Resources Center brings together key fisheries stakeholders from West Africa to share lessons learned and an understanding the challenges for a way forward. Discussion topics include regional experience with fisheries co-management, IUU fishing and maritime security, gender mainstreaming, and collaborative action research.

<b>Speakers</b>	
Brian Crawford	IUU fishing and Maritime Security in West Africa
Abdoulaye Samba	Fisheries Co-Management - Successful Experience in Senegal
Fatou Mboob	Exclusive Use Right - TRY Oyster Women Association of Gambia
Nana Jojo Solomon	Close Season - Challenges of Ghana's Artisanal Fisheries
Sheila Fynn-Korsah	Collaborative Research in Ghana - Fishers Involvement in Data Collection

### **Regular Session #7: Broadening the perspective in small-scale fisheries governance**

Friday, October 26<sup>th</sup>, 8:30-10:00

Location: Nanta II

**Chair: Milena Arias Schreiber**

<b>Speakers</b>	<b>Title</b>
Brice Trouillet	A critical review of Marine Spatial Planning experiences worldwide and challenges ahead for small-scale fisheries
Raquel de La Cruz Modino	Marine Reserves & resilience in difficult times: transdisciplinary research and governance as successful strategies to cope with the global threats
Alice Joan de la Gente Ferrer	Assessing Impacts of Marine Protected Areas on the Welfare of Small-Scale Fishers in Southern Iloilo, Philippines
Ruth Brennan	Working with small scale fishing communities in Ireland to co-design and test inclusive governance approaches
Philippa Cohen	Securing a just space for small-scale fisheries amidst ocean governance transformation
Maria Jose Espinosa Romero	The changing role of the state in fisheries governance

### **Regular Session #8: The complex and dynamic world of small-scale fisheries**

Friday, October 26<sup>th</sup>, 8:30-10:00

Location: Nanta I

**Chair: Silvia Salas**

Speakers	Title
Phil Loring	Staying or leaving during times of stress: how imperiled fishing communities are responding to the cumulative effects of change in arctic Alaska
Augustinha Duarte	Steady, reliable and low technology: Recognizing the role of women in fisheries & food security in Timor-Leste
Paul Onyango	FISHMOB Technology: Digitalizing the fishing sector to uplift small-scale fisheries
Tanya King	Industry responses to perpetual transformation: Mental health and the Australian fishing industry
Maarten Bavinck	Small-scale fisheries as social struggle
Denis Bailly	Harnessing research to policy and training to support small-scale fisheries in the South

### Speed Session #3

Friday, October 26<sup>th</sup>, 8:30-10:00

Location: Lanna Room

**Chair: Shehu Akintola**

Speakers	Title
Katia Frangoudes	Socials Transformations of SES of seashore seaweed, Brittany, France
Aliou Sall	The feminization of poverty as an impact of globalisation in west African SSF
Jack Daly	Community responses to global trade: CETA, sustainable fisheries, and coastal communities in the Great Northern Peninsula, Newfoundland
Francis M. Nwosu	Status and spatial distribution of urban, peri-urban and rural aquaculture in Cross River State, Nigeria and the implications for artisanal fisheries
Wilson Mhlanga	Transnational Governance of the Kapenta ( <i>Limnothrissa miodon</i> ) fishery on Lake Kariba, Zambia/Zimbabwe: Towards transdisciplinarity in fisheries management
Danika Kleiber	The Multiple Dimensions of Contemporary Cultural Fishing
<b>Q&amp;A period (6 min)</b>	
Joseph Ginindza	Considerations for the future of small-scale fisheries in South Africa
Kafayat Fakoya	Diagnosis of opportunities and barriers to co-management of small-scale fisheries in Nigeria: the case of Badagry and Epe Lagoons
Luis Amado Ayala-Pérez	Evolution of the artisanal fisheries of Octopus and Dogfish-shark in the state of Campeche, Mexico
Beatriz Mesquita Ferreira	Trade-off between artisanal fishing communities and marine protected areas as a strategy for

	sustainability
Mohammad Mozumder	Facing governance challenge of small-scale Hilsa ( <i>Tenualosa ilisha</i> ) fishery in Bangladesh: A social-ecological approach
<b>Q&amp;A period (5 min)</b>	

## REFRESHMENT BREAK (10:00-10:30)

### **REGIONAL ROUNDTABLES: AFRICA, ASIA & OCEANIA, EUROPE, LATIN AMERICA & THE CARRIBBEAN, NORTH AMERICA**

Friday, October 26<sup>th</sup>, 10:30-12:00

Location: Grand Nanta Ballroom

Chair: Ratana Chuenpagdee

#### **Description:**

The session begins with a debrief from Wednesday, and brief overview presentations of the 'Regional Synthesis Reports' prepared by TBTI research team. Afterwards, participants are invited to join any of the regional roundtable to prioritize research, policy and actions for sustainable future of small-scale fisheries. Join the conversation and help craft the vision and implement actions for small-scale fisheries in your region.

## LUNCH @ River Terrace (12:00-13:0)

### **PLENARY SESSION #7 - REGIONAL REPORT BACK AND DRAWING UP ROADMAPS**

Friday, October 26<sup>th</sup>, 13:00-15:00

Location: Grand Nanta Ballroom

Moderator: Ratana Chuenpagdee

#### **Description:**

The session will begin with the report back from the regional roundtables, followed by questions, discussion and feedback. The congress participants are invited to contribute to the development of research plans, community actions and policy directions that will become the road map towards achieving the sustainability of small-scale fisheries, specially as we're heading to the **International Year of the Artisanal Fisheries and Aquaculture** and the **4<sup>th</sup> World Small-Scale Fisheries Congress** in 2022.

<b>REFRESHMENT BREAK (15:00-15:30)</b>
----------------------------------------

**PLENARY SESSION #8 - WAYS FORWARD**

Friday, October 26<sup>th</sup>, 15:30-16:30

Location: Grand Nanta Ballroom

Chair: Ratana Chuenpagdee

**Description:**

As the closing

**“KANTOKE” DINNER**

Friday, October 26<sup>th</sup>, 17:30-21:00

Old Chiang Mai Cultural Center

(See details in the front of the booklet)



## Congress Committees

### Global Organizing Committee

**Ratana Chuenpagdee** (Chair)

Memorial University, Canada

**Shehu Akintola**

Lagos State University University,  
Nigeria

**María José Barragán-Paladines**

Charles Darwin Research Station and  
Leibniz Centre for Tropical Marine  
Research (ZMT), Germany

**Alida Bundy**

Fisheries and Oceans Canada (DFO),  
Canada

**Maria José Espinosa Romero**

Comunidad y Biodiversidad (COBI),  
Mexico

**Katia Frangoudes**

University of Brest, France

**Nicole Franz**

Food and Agriculture Organization of  
the United Nations (FAO), Italy

**Moeniba Isaacs**

University of the Western Cape, South  
Africa

**Derek Johnson**

University of Manitoba, Canada

**Sérgio Mattos**

Ministry of Planning, Brazil

**Patrick McConney**

University of the West Indies,  
Barbados

**Prateep Nayak**

University of Waterloo, Canada

**José Pascual-Fernandez**

University of La Laguna, Spain

**Maria Pena**

University of the West Indies,  
Barbados

**Alicia Said**

Memorial University, Canada

**Silvia Salas**

CINVESTAV, Mexico

**Andrew Song**

James Cook University; WorldFish,  
Australia

### Local Organizing Committee

**Kungwan Juntarashote** (Chair)

Kasetsart University

**Suvaluck Satumanasphan**

Mahidol University

**Malinee Smithrithee**

Thailand Department of Fisheries

**Yuttana Theparoonrat**

Southeast Asian Fisheries

Development Center (SEAFDEC)

**Wichin Suebpala**

Marine Biodiversity Research Group,  
Ramkhamhaeng University

**Makamas Sutthacheep**

Department of Biology, Faculty of  
Sciences, Ramkhamhaeng University

**Daracha Thiammueang**

Maejo University

**Thamasak Yeemin**

Ramkhamhaeng University and Marine  
Science Association of Thailand

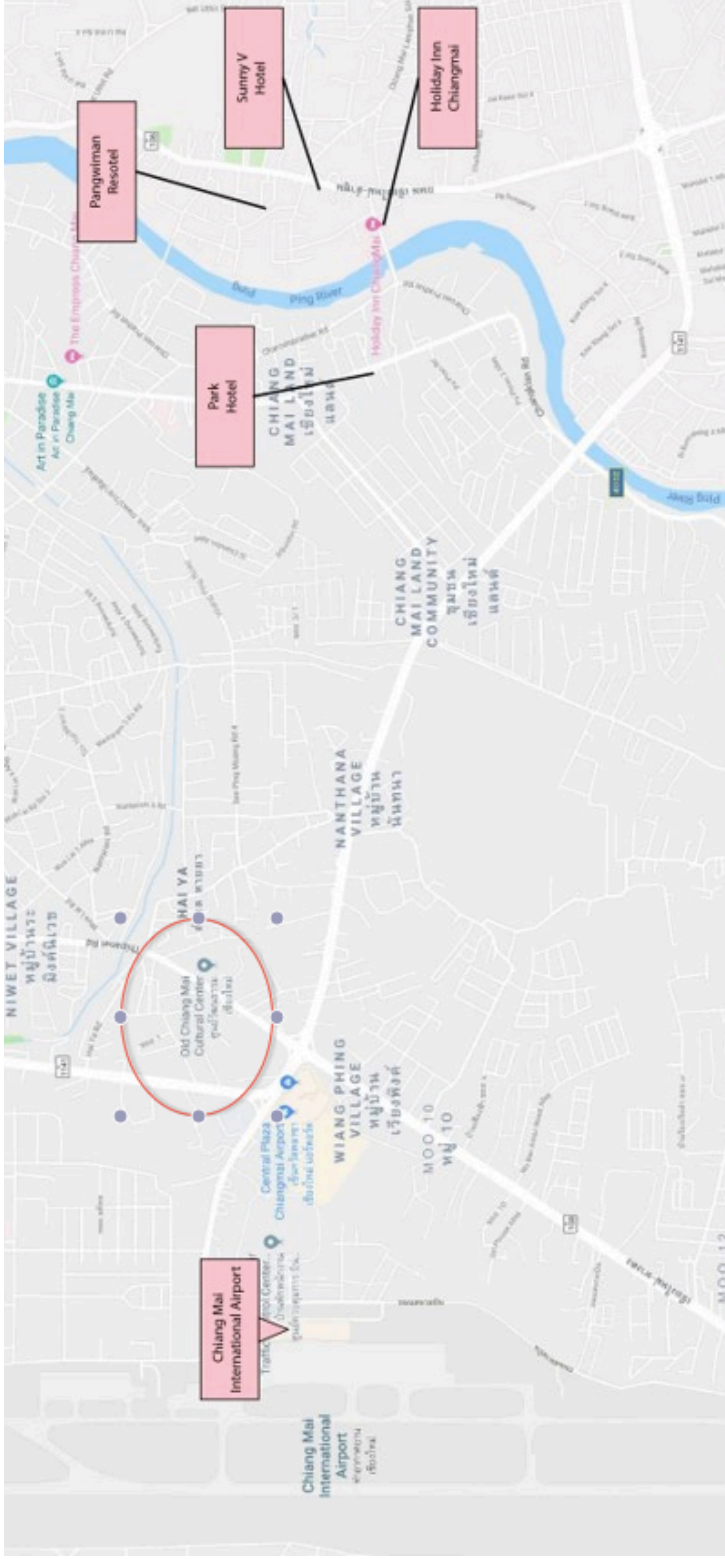
### Congress Secretariat

**Vesna Kerezi**

Too Big To Ignore, Memorial  
University, Canada

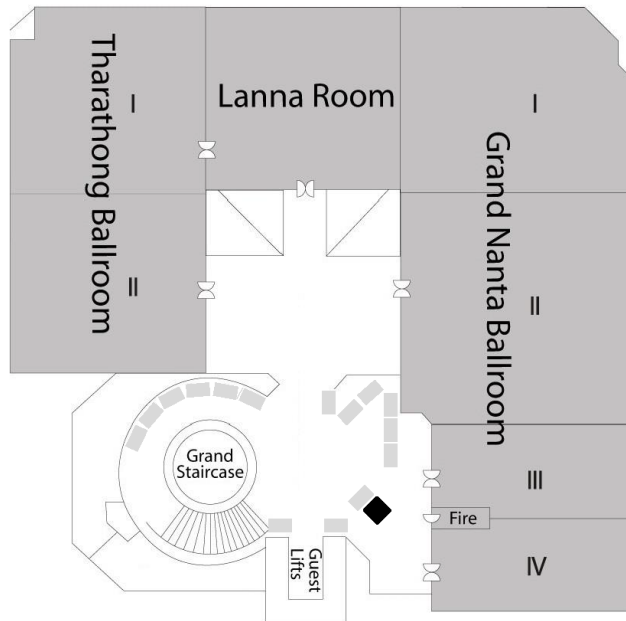
**Mirella Leis**

Too Big To Ignore, Memorial  
University, Canada

[illegible]

## Meeting Room Floor Plan

*All meeting rooms are on the 2<sup>nd</sup> floor. The Secretariat is on the mezzanine.*



## ACKNOWLEDGMENTS

We are grateful for the support and assistance of many people and organizations, sponsors, staff and volunteers who have contributed to making this congress possible. In particular, we would like to acknowledge the support of the following organizations.

### Collaborating and Supporting Organizations



มหาวิทยาลัยเกษตรศาสตร์  
Kasetsart University



Mahidol University



SEAFDEC



Too BIG To  
IGNORE

Global Partnership for Small-Scale Fisheries Res



SSHRC CRSH

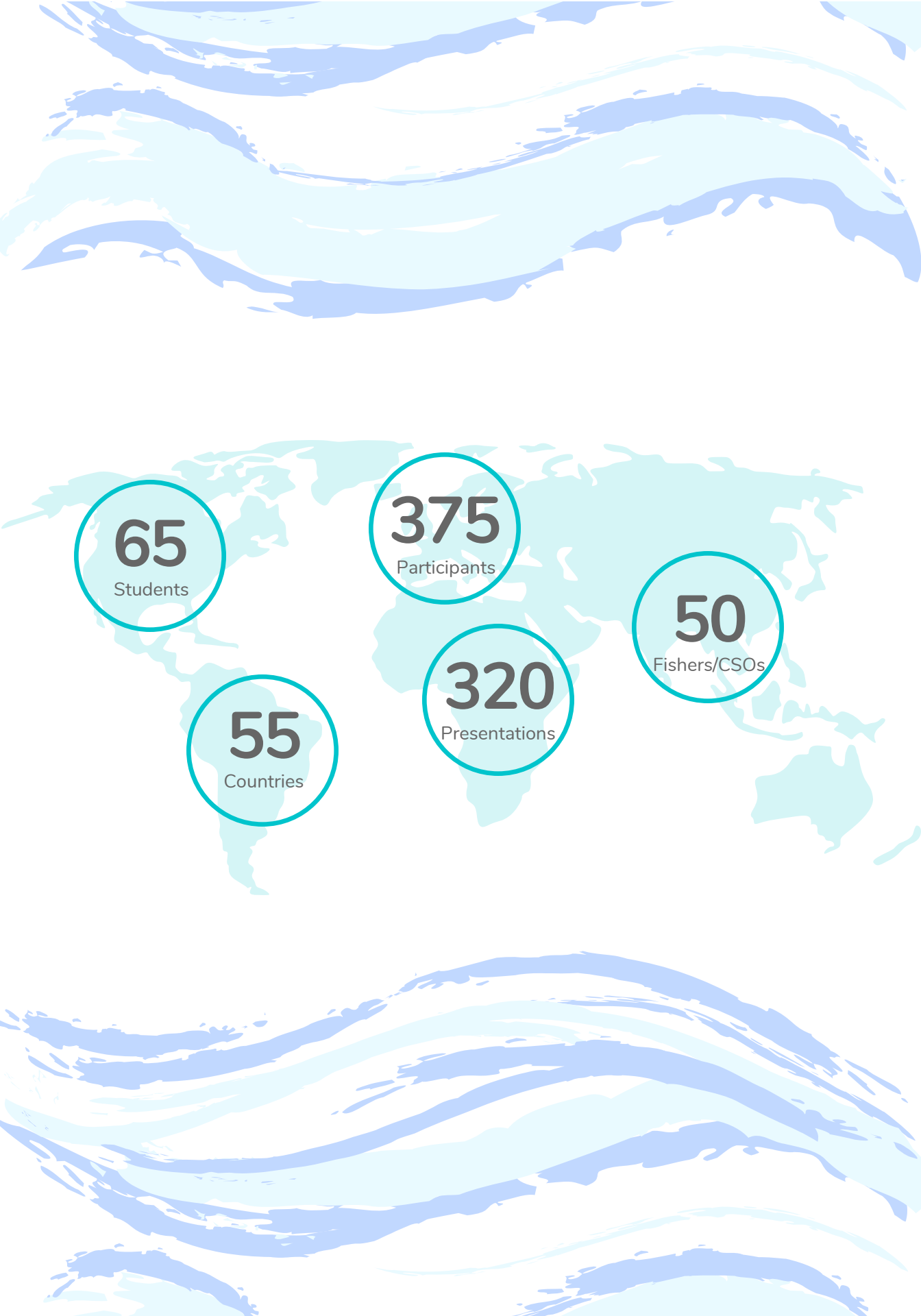
Social Sciences and Humanities Research Council of Canada  
Conseil de recherches en sciences humaines du Canada

\*\*\* SPECIAL RECOGNITION \*\*\*

WALTON FAMILY  
FOUNDATION



We thank **Walton Family Foundation Inc.** for their generous financial support. In addition, we would like to express sincere gratitude to **Food and Agriculture Organization of the United Nations (FAO)**, **Oak Foundation**, and **WorldFish** for providing financial and in-kind contributions that made it possible for a number of fishefolk, CSOs and government representatives to be part of this congress.



**65**

Students

**375**

Participants

**50**

Fishers/CSOs

**55**

Countries

**320**

Presentations