

# 2<sup>ND</sup> WORLD SMALL-SCALE FISHERIES CONGRESS

**WSFC**  
World Small-Scale Fisheries Congress

OPTIONS &  
OPPORTUNITIES FOR  
SMALL-SCALE FISHERIES

Mérida, México  
21-26 September 2014

**ECONOMIC  
VIABILITY**



**LIVELIHOODS &  
WELLBEING**



**ECOSYSTEM  
STEWARDSHIP**



**RIGHTS &  
ACCESS**



**FOOD SECURITY &  
FOOD SOVEREIGNTY**



**GOVERNANCE &  
GOVERNABILITY**



**ASSESSMENT &  
MONITORING**



	Sunday Sept 21	Monday Sept 22	Tuesday Sept 23	Wednesday Sept 24	Thursday Sept 25	Friday Sept 26			
8:00	Registration	Registration	Registration						
8:30		Opening ceremony	Special presentations	Filed excursion					
9:00	Portugese/Spanish Sessions	Plenary session (1) Viability, livelihoods & well-being	Plenary session (3) Food, rights & governance		Concurrent sessions (5)				
9:30									
10:00	Student Forum					Too Big To Ignore general meeting			
10:30		BREAK	BREAK	Fisher to fisher Talk circle	BREAK				
11:00		Concurrent sessions (1)	Concurrent sessions (3)		Concurrent sessions (6)				
11:30									
12:00	Transdisciplinary Workshop			Indigenous talk circle					
12:30		LUNCH	LUNCH		LUNCH	LUNCH			
13:00		Plenary session (2) Assessment, sustainability & stewardship	Plenary session (4) Fishers´ perspectives	Sea cucumber circle	Plenary session (5) FAO SSF Guidelines	Too Big To Ignore general meeting			
13:30									
14:00	BREAK						BREAK		
14:30									
15:00	Concurrent sessions (2)	Concurrent sessions (4)	SSF guidelines circle	BREAK					
15:30									
16:00						Fishers meet & Greet			Plenary session (6) Reflection & looking forward
16:30									
17:00									
17:30									
18:00			Movie night						
18:30	Ice breaking	Opening reception			Closing dinner				
19:00									
19:30									



**“Options and Opportunities”**

**Merida, Mexico**

**September 21-26, 2014**

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## **Message from Co-Chairs**

Merida, Mexico  
September 2014

Dear Congress Participants,

Since the first congress held in 2010 in Bangkok, the world's small-scale fisheries have seen major surge in policy and research interests. On the former, FAO has been coordinating the development and implementation of the "International Guidelines for Securing Sustainable Small-Scale Fisheries," recently endorsed in June this year by the Committee on Fisheries. On the latter, several large-scale projects focusing on small-scale fisheries, such as the Too Big To Ignore (TBTI) partnership, have been launched. Both efforts have resulted in enhancing the visibility of small-scale fisheries and creating opportunities for building knowledge and research network and collaboration. Together, they provide an important platform for setting policies and actions to support small-scale fishing people and their livelihoods around the world.

With these efforts, it is time to shift our focus from discussing 'Issues and Solutions,' the topic of the first congress, to exploring 'Options and Opportunities' at the 2WSFC. The unique nature and characteristics associated with small-scale fisheries call for different thinking about how the sector should be economically and sustainably developed [**Theme 1: Economic Viability**]. The connectivity of small-scale fishing people to community wellbeing implies that livelihood options need to be broadened and explored, beyond fisheries into other sectors [**Theme 2: Livelihoods and wellbeing**]. While ecological impacts from fishing may not be avoidable, they can be reduced through sustainable fishing and stewardship. The role of small-scale fishing sector in promoting these practices needs to be understood [**Theme 3: Ecosystem stewardship**]. Further, other development in coasts and oceans adds pressure on resources that small-scale fishing people rely on, and in some cases, displace them altogether. Securing access and rights of small-scale fisheries to their fishing places and fishing livelihoods is an important condition for their sustainability [**Theme 4: Rights and access**]. Indeed, the 'human' rights-based approach to small-scale fisheries governance underlies the majority of passages in the FAO guidelines, which also call to our attention different consideration about institutional arrangements and principles suitable for small-scale fisheries. In this context, discussion about food security and food sovereignty is timely [**Theme 5: Food security and food sovereignty**]. All of the above links back to issues of governance. Deliberation about what governing system(s) for small-scale fisheries should look like and how to make it happen is therefore a key element in the discussion about this sector [**Theme 6: Governance and governability**]. Finally, governance quality can be improved with good information and knowledge about the complexity and dynamics of the fisheries system. Appropriate methods to assess and monitor sustainability of small-scale fisheries, and how well we are doing, are therefore important [**Theme 7: Assessment and monitoring**]. There are over 300 presentations addressing these topics at the congress, in plenary and concurrent sessions.

In addition to research to explore options and opportunities for small-scale fisheries, we are aware of the current needs related to information and capacity development. Developing an information system that captures the key essence of small-scale fisheries and that allows us to assess and compare their values and importance is a major task that TBTI has taken on. We are launching the **Information System on Small-Scale Fisheries** (ISSF) at the congress, as a community tool to enhance our knowledge about this important sector, and to build research and governing capacity along with it. Such progress requires thoughtful consideration and planning about needs and mechanisms to deliver training and sustain the built capacity. Innovative thinking like those promoted in transdisciplinary research will be explored in the congress at the **Transdisciplinary training and capacity development** workshop. All of these cannot happen without the help of young scholars and without active involvement from fishers and fishers' organizations. Thus, the congress provides an avenue for students and early career scientists to exchange ideas and discuss issues at the **Students Forum**. We will be hearing their perspectives throughout, given the large number of students participating in the congress.



With respect to fishers and fishers' organizations, we are very pleased with a good turnout and encouraged by the enthusiasm expressed thus far. The special plenary session on ***Fishers' Perspectives*** (Tuesday afternoon) is certainly one of the highlights of the congress. We are excited to hear stories, experiences, lessons, and future vision from fishers coming from all corners of the world. The ***Field Excursion*** on Wednesday is another opportunity for fishers to interact with each other, with local fishers, and with other congress participants, in an informal and relaxed setting.

Finally, the congress is closely linked to the TBTI project (<http://toobigtoignore.net/>), which will hold a general meeting on Friday. ***TBTI general meeting*** is opened to anyone interested in an interactive discussion about options and opportunities for better future of the world small-scale fisheries. Be part of the network, join the conversation, and contribute your idea about what we can do to support small-scale fisheries around the world.

We hope you enjoy the congress.

Ratana Chuenpagdee and Silvia Salas  
Congress Co-Chairs



### **General conference information**

Congress venue

Hyatt Regency Merida

Ave. Colon esq Calle 60, a 100 metros del Paseo Montejo

Merida, Mexico, 97000

All presentation sessions will be held in Hyatt Regency Merida. 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 outside the Hyatt, except Sunday social mixer, which will be held at Swimming Pool, 3rd Floor Hyatt Hotel.

Monday Opening Reception will be held at Universidad Autónoma de Yucatán (UADY), located at Calle 60, between 59 & 57, across from Teatro Peon Contreras, Centro Histórico. Tuesday Movie night will also be held at UADY. Thursday Closing Dinner will be held at Club de Leones (more information will be provided at the Registration Desk). These locations are walking distance from the Hyatt.

### **Registration**

All registered participants can pick up the name badge and the congress kit at the Hyatt hotel, second floor, starting on Sunday, September 21st at 8.00. The congress kit will include program booklet, memory stick containing conference proceedings, and the tickets for the lunches, social events and field trip.

Registration opening hours:

Sunday: 08:00-19:00

Monday: 08:00-17:30

Tuesday: 08:00-12:30

**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.

**Volunteer assistance**

Congress volunteers will be wearing turquoise polo shirts and white t-shirts. They will be glad to assist you so please feel free to ask them any questions.

**Presenter information**

All presentations must be uploaded onto our computer system in the room where the session will take place, via a memory stick, at least half an hour before the session begins.

**Secretariat room**

Congress secretariat will be situated in 'Ticul Room' on the second floor.

**Internet**

There will be no Internet connection in the meeting rooms. Please contact registration desk if you urgently need access to Internet.

**Official language**

English is the official language of the congress. For certain activities such as the Fishers' perspectives plenary and Fisher-to-Fisher Talk Circle (during the Wednesday field excursion), there will be translation. We also offer "whisperers" service in various languages. Ask at the Registration Desk for more information.

**Smoking Policy**

Smoking is prohibited in the conference venue.

**Mobile Devices**

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 presenter.

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

**Publications statement**

Abstracts and extended abstracts are published in a Congress Proceedings, available in a USB included in the congress kit and also on TBTI website ([toobigtoignore.net](http://toobigtoignore.net)). In addition, various calls for journal special issues and book volumes are included in the congress kit, for those interested in contributing. Please note that all participants will be added to the Too Big To Ignore Listserv. If you do not wish to join the listserv, please inform us at the registration desk.

**Transportation (airport and city)**

If you arrive into Merida airport, you can get a taxi at the exit. You can buy your ticket in a small booth that is just across the street from the terminal building. Costs vary by zone. To downtown or to the area close to the Hyatt, the cost can be about \$200-250 pesos (or \$15-18 USD).

If you arrival to Cancun airport, there is a direct bus line from Cancun airport to Fiesta Americana bus station in Merida (just across the Hyatt Regency). Buses leave Cancun at: 13:30, 16:15, 17:30, 20:30 and the ticket cost is between \$38-46 USD, depending on the type of bus. You can buy the ticket online at <http://www.ado.com.mx/wadod/compra.jsp>, or upon arrival at the Cancun airport.

If you cannot catch the direct bus from the airport, DO NOT TAKE A TAXI, THEY ARE REALLY EXPENSIVE. Every half hour, there are buses running from the Cancun airport to the bus station in Cancun city for the cost of \$5 dlls. Once in there, you can get a bus to Merida, they run frequently and cost the same as when you go directly from Cancun airport.

Once you arrive to Fiesta Americana bus station, to go to other hotels in downtown area, you can take a taxi from there. IBIS, Marques, Victoria, Español, Conquistador, and Holyday Inn are in walking distance. Ask people at the bus station or the Hyatt hotel for direction.

Historical downtown is about 15 min walk from the congress venue. Buses are also available and it costs \$7 pesos (about half US dollar) one way. Buses run from north to south (Street 62) or the other way around (Street 60). Other routes also operate, but to move between the congress venue and downtown you can get these buses, indicating the following routes: Fiesta Americana, Cordemex, and Gran Plaza. Taxi can charge between 50-70 pesos from down town to the venue, walking distance is 15 minutes. Taxi phone number: 953-8585 or 945-0000.

### **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 @2WSFC**

Use the hashtag #@2WSFC when you tweet about the congress

### **Friend us on Facebook**

<https://www.facebook.com/2WSFC?fref=ts>

### **Parking at the Hyatt**

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

### **Emergency contact**

Silvia Salas, mobile phone: 999-2-383-718

Miguel Cabrera, mobile phone: 999-1-026-831

### **Official congress website:**

<http://2wsfc.wordpress.com/>

### **Special events information**

#### **Sunday Social Mixer @ Hyatt swimming pool**

Come see old friends and make new friends, while enjoying drinks and light snack. The event is opened to all congress participants registered before 7 pm on Sunday.

#### **Monday Opening Reception @ UADY**

Monday Opening Reception will be held at UADY in downtown, which is about 15 minutes walk. There will be music, snack and drinks.

#### **Tuesday Movie Night @ UADY**

Join us on Tuesday evening, from 6-8, at Universidad Autónoma de Yucatán (UADY), where we will screen a select number of short movies on small-scale fisheries. Meet the film-makers and producers and participate in the discussion about these films.



### **Thursday Closing Dinner @ Club de Leones**

Club de Leones is only a few minutes-walk from the Hyatt, along a nice avenue. Come find out who wins the students best paper, the best Pesca-Kucha presentation and the best photos, and enjoy food, music and drinks. Bring your dancing shoes!

### **Photo contest**

We are running a small-scale fisheries photo contest! Numerous photos have been submitted and the shortlisted ones are displayed in Room Regency 1 for the duration of the congress. Winners will be decided by a judging panel and also by voting. Pick-up a ballot and vote for your favorite photo by Thursday lunch time. Winners will be announced at the congress dinner on Thursday.

### **Silent auction**

Silent auction is being organized as part of the congress. If you are interested in donating items for auction, please drop them off at the registration desk. Proceeds from the auction will go towards travel funds and fellowships for students and early career scientists interested in small-scale fisheries.

### **Field excursion: Progreso and Chuburna**

The field excursion takes place on Wednesday September 24th. The main destination is Progreso, the largest port of the Yucatan, about 40 km north of Merida. On the way to Progreso, we will stop to visit Mayan ruins, and on the return, fishing villages (Chuburna). While in Progreso, we will have seafood lunch provided by local fishers. After lunch, we will have 'discussion circles' (see details in the 'Congress Program'). Those not interested in joining the discussion circles can enjoy the promenade and visit local stores in Progreso.

Buses will depart from the Hyatt Hotel at 8 am, and will return at about 7 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 and indicate what discussion circle you wish to join 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.

Those not participating in the field excursion, there are plenty to do in Merida and around (see tourism information below and in the congress kit).

### **Program highlights for fishers**

One of the key goals of the congress is to improve information exchange among fishers, and between fishers and other participants, in order to widen the range of small-scale fisheries options and put the opportunities within reach. To facilitate such interchange, the following activities have been planned:

**Sunday:** "Fishers meet and greet" (5 pm, Uxmal Room) - an informal session to introduce fishers with their peers along with hosts from Mexico and TBTI organizers to start the interaction. This will be followed by "Social mixer", starting at 6.30 pm, Swimming Pool.

**Monday:** Fishers can join all other participants in listening, learning and trying to paint a big picture of small-scale fisheries from a global to local level by attending different sessions. Whisperers are available to help with translation and question/discussion period.

**Tuesday:** A fishers' focus plenary session will take place between 13:30-15:00 at Regency room. Six fishers from different regions of the world will present their views and experiences related to small-scale fisheries options and opportunities, and then participants will engage in discussing the points raised so as to form an agenda for further consideration. Also, join the "Movie Night" at 6 pm, at UADY Auditorium, to watch films and documentaries about small-scale fisheries from various continents.

**Wednesday:** Field trip to Progreso and Chuburna ports. The fishers at the congress will have the opportunity to talk with each other and the local fishers about the points previously raised, as well as

other matters. Four 'discussion circles' have been designed to encourage fisher's interaction: a) Fisher-to-Fisher talk circle; b) Indigenous learning circle; c) Sea cucumber fisheries circle; and d) Small-scale fisheries guidelines circle. Fishers can talk about the similarities and differences among small-scale fisheries that produce various options and opportunities, to address specific topics and to move forward future activities. Translators and note-takers will help with discussion among fishers and keep the conversations flowing. Other participants can attend as observers in Fisher-to-Fisher talk circles, and more actively in the other circles.

**Thursday:** Using information from the talking circles and other discussions, a few fisher leaders will share with the entire congress the key points considered and lessons learned. This can form an action agenda for themselves and TBTI; sharing encourages participants to take action to achieve positive impacts.

**Friday:** TBTI general meeting is held on Friday. We invite all fishers to participate in the meeting to continue the conversation and take part in the planning of the future activities (research, training, capacity development, and policy intervention) of TBTI.

### **Useful information**

*Money exchange:* 1 US Dollar is about 13 Mexican pesos. The best place to get good exchange rates is 'Casa de Cambio' (currency exchange kiosk). There are two across from the Hyatt and several in downtown area. Cash in Mexican pesos and US Dollars can be withdrawn at any ATM machine. Machines at the airport may charge a higher fee for transactions.

*Weather:* Temperature will be between 30-32c (high) and 20-24c (low), and it is very humid. Although September is the end of the rainy season, there are high chances of rain. Bring your rain gear and clothing suitable for the climate.

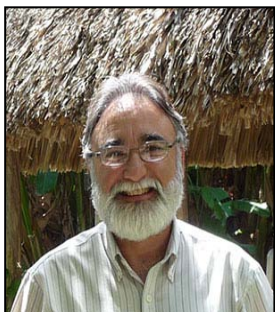
*Congress dress code:* Smart-casual.

### **Tourism information and special discounts for congress participants**

The city of Merida has many parks. Every night there are performances or cultural activities (mostly free) in and around downtown area. The Yucatan today and other information booklets provide options for dining, cultural places to visit, etc. Among the options in the city you can take the "Turibus" that goes around the city, show your congress name badge to receive discount, the bus stops in front of Holiday Inn hotel. On Wednesday guided visits on the main square of the city takes place in the morning. The museum of Anthropology and the Mayan museum are also options for visiting. People participating in the congress will have free access to the Mayan museum if wearing their name badge. If you like shopping, Mercado de artesanías (handcraft market) is in Calle 61 x 70 and Mercado Santana located in Calle 45 X60, Pasaje Picheta in the main square is another option. On Friday, Saturday and Sunday, the main square in downtown is closed for traffic and restaurants offers outside dining, with music that transforms the city at night. □

Outside of Merida, Yucatan is famous for its Mayan ruins, cenotes (sink holes), beaches, haciendas and colonial cities. Look at the tourism information provided in the congress kit or at hotels, and explore!

## **Plenary speakers**



*Juan Carlos Seijo, Universidad Marista de Mérida, Mexico*

*'Community co-management of metapopulations with source-sink configuration: The small-scale spiny lobster (*Panulirus argus*) fishery of Punta Allen, Mexico'*

**Monday, September 22nd, 9-10:30**

**Plenary 1: Viability, livelihoods and well-being**

**Location: Regency**

**Talk:** Management and conservation of the spiny lobster fisheries of the West Central Atlantic involve the following complexities: (i) it is a transboundary resource, (ii) it is characterized by a metapopulation with source-sink configuration, (iii) gears and fishing methods are heterogeneous with differing effects on population structure, and (iv) the heterogeneity in management strategies, regulations (including differing legal sizes and trade restrictions), and enforcement. The metapopulation connectivity imposes management difficulties because not all of the countries involved in the Caribbean ecosystem implement the same regulatory strategies for responsible use of this resource over time. Within this complex context, the Punta Allen fishing community has co-managed the resource with a history of sound decision making. Factors identified to explain the relative success of the Punta Allen spiny lobster fishery will be presented and discussed.

**Bio:** Juan Carlos Seijo is a Professor of fisheries bioeconomics, and natural resource economics at Universidad Marista de Mérida, (founding President of this University, 1996-2004), and FAO consultant for 25 years. He has taught fisheries bioeconomics courses in Chile, Argentina, Peru, Uruguay, Panamá, Colombia, Cuba, Guatemala, Venezuela, and Taiwan. He has also been visiting professor of the University of Stirling, The University of Delaware, and Oceanic University of Taiwan. He has participated by invitation of FAO, UNESCO, National Geographic, and other institutions in scientific expert consultation and meetings in Sweden, Australia, Italy, Mauritius, Barbados, Cambodia, Denmark, Norway, and USA. He has been President of the North American Association of Fisheries Economists (NAAFE-2011-2013), and Board member of the International Institute of Fisheries Economics and Trade (IIFET-2008-2012). His academic interests and publications deal with fisheries bioeconomics, decision theory and risk analysis, and spatial modeling and analysis of small-scale fisheries.

**Christina Hicks**, Stanford University's Center for Ocean Solutions, USA, and James Cook University's Centre of Excellence for Coral Reef Studies, Australia

*'Social, institutional, and knowledge access mediate diverse ecosystem service benefits in small-scale fisheries'*

**Monday, September 22nd, 9-10:30**

**Plenary 1: Viability, livelihoods and well-being**

**Location: Regency**



**Talk:** Fisheries management often results in trade-offs that influence who benefits, or what they benefit from. An understanding of when and why these trade-offs in ecosystem services occur can contribute towards effective and equitable fisheries management. Using examples from coral reef fisheries in the western Indian Ocean, Christina Hicks' research explores the following questions: 1) what trade-offs emerge among people and ecosystem

services? and, 2) what influences who can benefit from these ecosystem services? Her results identify common trade-offs across stakeholder group (managers vs fishers), scale (local vs national benefits), and category (cultural vs provisioning). Further, she shows how access, and in particular social, institutional, and knowledge mechanisms (rather than rights or economic mechanisms), influences who is able to benefit and what benefits they perceive.

**Bio:** Christina is an interdisciplinary social science fellow at Stanford University's Center for Ocean Solutions and James Cook University's Centre of Excellence for Coral Reef Studies. Christina's research examines how resource dependent communities value and benefit from their environment (popularized as ecosystem services). By taking people's values, and other social characteristics into consideration, this work develops an understanding of how people are likely to respond to environmental and policy change. Christina earned her PhD from the ARC Centre of Excellence for Coral Reef Studies, JCU, Australia, and her MSc from Newcastle University, UK. Christina has previously worked as a research associate in the UK and a fisheries scientist in Kenya; she now has more than 10 years of experience working in small-scale fisheries, predominantly in the developing world.



**Tim Acott**, University of Greenwich, UK  
*'Understanding the importance of small-scale fisheries'*  
**Monday, September 22nd, 9-10:30**  
**Plenary 1: Viability, livelihoods and well-being**  
**Location: Regency**

**Talk:** The livelihoods of small-scale fishermen are under threat in many places across the world. This threat is set against a backdrop of a reported global fisheries 'crisis' with 73% of marine stocks reported as either fully exploited, overexploited, depleted or recovering. The focus of fisheries management has often been on the biological and economic dimensions and arguably not enough attention has been given to socio-cultural issues. Capturing the importance of small-scale fisheries from a socio-cultural perspective is not an easy task and requires a range of epistemological perspectives and methodological approaches. Using examples from the development of '21st Century Catch' (a toolkit developed to help understand the importance of small-scale fisheries<sup>1</sup>) Tim Acott will present insights into developing and using multi-dimensional and multi-disciplinary perspectives for capturing the value of fisheries for the well-being of coastal communities. For such initiatives to succeed, from grassroots to strategic policy planning, attention needs to be given to epistemological considerations of acceptable evidence that in turn means addressing issues of the relationship between nature and culture. Tim will address these issues with a focus on small-scale fisheries, cultural ecosystem services and sense of place.

**Bio:** Dr Tim Acott is a Principal Lecturer in Environmental Geography at the University of Greenwich in the Faculty of Science and Engineering. He graduated with a BSc Hons in Environmental Science from the University of Plymouth in 1989 and subsequently completed a PhD at the University of Stirling. His academic interests revolve around social science perspectives on environment and sustainability issues. Tim has led work on three major EU funded fisheries projects, CHARM, GIFS and TourFish, and is a lead author on the recently published toolkit for inshore fisheries called '21st Century Catch'. Tim is currently working on new ways to understand inshore fisheries through cultural ecosystem services and sense of place from a co-constructionist perspective.



**Daniel Pauly**, Fisheries Centre, University of British Columbia, Canada

*'Small-scale fisheries: A global reassessment of their catches'*

**Monday, September 22nd, 13:30-15:00**

**Plenary 2: Assessment, sustainability and stewardship**

**Location: Regency**

**Talk:** It is widely understood that the only global fisheries statistics that are currently available, i.e., the data submitted by member countries to the Food and Agriculture Organization of the United Nations (FAO) underestimate the contribution of small-scale fisheries (artisanal, subsistence and recreational), but the extent of this underestimation has never been rigorously assessed. The *Sea Around Us*, as part of its goal of quantifying human impacts on global marine ecosystems undertook, and has now concluded, a twelve-year activity wherein the fisheries catches by sector of all maritime countries of the world were reconstructed from the bottom up, for the years 1950 to 2010. Dr. Pauly will present selected results from this effort, which allow for reassessments of the global role of small-scale fisheries in contributing food security, and their relationship vis-à-vis industrial fisheries.

**Bio:** Dr. Daniel Pauly is a Professor at the Fisheries Centre of the University of British Columbia (in Vancouver, Canada), of which he was the Director from 2003 to 2008. Since 1999, he is also Principal Investigator of the *Sea Around Us* project, devoted to studying documenting and mitigating the impact of industrial fishing on the world's marine ecosystems. The concepts, methods and software Daniel Pauly (co-)developed, documented in over 500 heavily-cited publications, are used throughout the world, following multiple courses and workshops given in four languages on all five continents. This applies especially to the ELEFAN software for fish growth analysis, the Ecopath approach for modelling aquatic ecosystems and FishBase, the online encyclopedia of fishes. This work is recognized in various profiles, notably in *Science*, *Nature* and the *New York Times*, and by numerous awards, notably the *International Cosmos Prize* (Japan, 2005), the *Volvo Environmental Prize*, (Sweden, 2006), the *Ramon Margalef Prize* (Spain, 2008) and the *Nierenberg Prize for Science in the Public Interest* (US, 2012). His work also led to Dr. Pauly receiving 6 honorary doctorates and being elected a Fellow of the Royal Society of Canada (Academy of Science).

**Derek Armitage**, The Environmental Change and Governance Group  
University of Waterloo, Canada

*'Governance and community conservation in coastal-marine contexts and the implications for small-scale fisheries'*

**Monday, September 22nd, 13:30-15:00. Plenary 2: Assessment, sustainability and stewardship**

**Location: Regency**



**Talk:** New ways of governing in relation to the environment are emerging with important implications for the practice of conservation. In particular, understanding how community conservation is influencing and being influenced by emergent hybrid (e.g., public-private) and network governance arrangements is particularly important. In his talk Dr. Armitage will explore: 1) how different and hybrid governance arrangements might promote community conservation in ways that sustain in particular the well-being of small-scale fishers and the ecosystem services upon which they depend; 2) whether the interests of local resource users (e.g., small-scale fishers) in conservation practices are matched by meaningful involvement in decision processes at multiple levels; and 3) how governance processes emerging in complex conservation situations might be adaptive to social-ecological change and uncertainty.



**Bio:** Derek Armitage is Associate Professor, University of Waterloo where he directs the Environmental Change and Governance Group (<http://ecgg.uwaterloo.ca>). He serves as an editor for Conservation Letters and Ecology and Society and is a Senior Fellow with the Earth Systems Governance Project.



**Karin Fernando**, Centre for Poverty Analysis, Sri Lanka  
*'How BIG are small-scale fishers in the Port 2015 development agenda'*

**Monday, September 22nd, 13:30-15:00**

**Plenary 2: Assessment, sustainability and stewardship**

**Location: Regency**

**Talk:** On the road to designing and deliberating the next development framework that will replace the existing Millennium Development goals (MDGs) in 2015, a lengthy consultative route is underway. The objectives of these discussions have been to propose an “ambitious” and “transformative” agenda by which the world can tackle poverty eradication. The main thrust of the overall framework and goals is based on bringing about a sustainable development model. It is currently at the final stages of formulation before the United Nations convenes the negotiation process with the Governments in September 2014. From this point on it is vital that stakeholders and lobby groups work with their governments to include areas of vital importance into the agenda especially to ensure that “no one is left behind” and that the frame is truly transformative. This presentation will provide a snap shot of the proposed goals (both the Millennium Development Goals and the Sustainable development Goals) and discuss how small- scale fishers, their needs and issues are being incorporated into this framework. It will also bring out positions made by groups or others who are working on fisheries related issues. The presentation will be based on the ongoing debates and position papers related to the MDG and SDG processes. It will focus more on concerns for small scale fishers in developing countries, particularly South Asia.

**Bio:** Karin Fernando (MA Brandeis), is a Senior Professional at the Centre for Poverty Analysis (CEPA) where she leads the Poverty Impact Monitoring programme and the thematic work on the Environment and Poverty. Her interests are in natural resource management, sustainable development and poverty.

**Alejandro Flores**, Food and Agriculture Organization of the United Nations, Chile  
*'Rights to food, food security and small-scale fisheries: Concepts and linkages'*

**Tuesday, September 23rd, 09-10:30**

**Plenary 3: Food, rights and governance**

**Location: Regency**



**Talk:** The right to food was reaffirmed by heads of states and governments in 1996 through the declaration of the World Food Summit, stating that it is everyone’s right to be free of hunger and to have access to safe and nutritious food. This summit also recognized the urgent need to advocate and make every effort to reach food security, which was defined as the condition in which all persons have permanent access to sufficient safe and nutritious foods to satisfy daily dietary needs to have a healthy and active life. Within the context of improving food security, the provision of fish as a main source of protein already plays a paramount role in many countries around the world, particularly those of Asia and the Pacific Island States. Other regions such as Africa, where undernourishment is still a major problem, SSF and SS-aquaculture though offering a high potential for its reduction, still face many technical and legal problems. In Latin America, where some 47 million people are still chronically hungry, the potential of SSF is still hampered by weak institutional sectorial arrangements. However,

increased recognition of the importance to safeguard food rights and food security in these regions is beginning to include SSF and SSAq within right to food and food security legislations and policies.

**Bio:** Alejandro Flores has a degree in Fisheries Engineering from Veracruz, Mexico, Msc in Aquaculture and Fisheries Management and a PhD in Aquaculture, both from University of Stirling, UK. He has been a Full Professor; Head of the Marine Resources Department and Director of the Center for Research and Advanced Studies (CINVESTAV), at Merida, Mexico. He is the founding Director of the School of Natural Resources and Rector of the Marista University of Merida, Mexico. He has been a representative of FAO-UN in Argentina and Chile and the Senior Fishery and Aquaculture Officer of FAO's Regional Office for Latin America and the Caribbean.



**Tanya King**, Deakin University, Australia

*'The health and well-being of fishers in Australia'*  
**Tuesday, September 23rd, 09-10:30**  
**Plenary 3: Food, rights and governance**  
**Location: Regency**

**Talk:** The health and well-being of fishers in Australia - as elsewhere - is complicated by many factors that are specific to the industry. This presentation describes a research project in which the industry attitude to physical and mental health issues are explored. The project makes a number of distinctions that help to clarify the challenges to fisher health and well-being, including the difference between 'symptoms' and 'stressors', as well as between stressors that are 'traditional risks' and those that are 'modern uncertainties'.

**Bio:** Tanya King is a maritime anthropologist who works with small-scale Australian commercial fishermen. Her focus is on the creation, implementation and justification of natural resource management policy, and how this is encountered by those who make a living from the sea. Her current research explores the relationship between policy tools and fisher mental health outcomes.

**Hugh Govan**, Locally Managed Marine Areas Network, Fiji

*'Co-management of coastal fisheries in the Pacific Islands: Defining roles and prioritizing actions to move forward'*  
**Tuesday, September 23rd, 09-10:30**  
**Plenary 3: Food, rights and governance**  
**Location: Regency**



**Talk:** The importance of coastal fisheries in the Pacific Islands, while self-evident, is only slowly being recognized in regional and national policies. Community-based management has long been identified as a fundamental building block and large scale uptake of these approaches have been demonstrated by the LMMA Network across more than 500 communities. But in a region with nearly 10,000 such communities there is an urgent need for coherent national approaches to small-scale fisheries management. While lack of policy, capacity and finance are often proposed as obstacles to progress this presentation explores experiences in strategic implementation that look promising for providing core national fisheries management services within existing constraints.

**Bio:** Hugh was born in Scotland, raised in Spain and has lived in Solomon Islands, Central and South America, and currently, Fiji. He advises the Locally Managed Marine Area Network in Asia and the Pacific and works free-lance on policy as well as practice to develop appropriate collaborative management approaches and build institutional and human capacity. His current interests are developing national and provincial government systems to supported decentralized natural resource management and improving his surfing: <http://tauika.net/publications.htm>.

## Congress program

### SUNDAY SEPTEMBER 21<sup>st</sup>, 2014

Time	Session title	Location
09:00-16:00	Portuguese/Spanish Session	Regency 2
09:00-17:00	Student forum	Chichen Itza
09:30-16:30	Transdisciplinary workshop	Uxmal
17:00-18:00	Fishers meet and greet ( <i>by invitation only</i> )	Uxmal
18:00-19:30	Ice breaker / social mixer	Swimming pool

### SESSIONS AND WORKSHOPS

Sunday September 21<sup>st</sup>, 09:00-10:30

Portuguese/Spanish Session 1.1: Brazilian studies

Location: Regency 2

**Chair: Maria Gasalla**

Presenter	Title
Maria Helena Carvalho da Silva	Live-Bait fishing: An alternative to artisanal fishermen in the middle Tietê river basin, Brazil
Iramaia De Santana	A biosociological management unit for the conservation of reef fisheries with hook and line on the North Coast of Bahia, Brazil
Rodrigo Rodrigues de Freitas	Socio-ecological changes in artisanal fishery of two communities adjacent to a Brazilian marine reserve
Luana Prestrelo	Governance conflicts in the small-scale fisheries of a tropical estuary
Naína Pierri Estades	Collective resistance to environmental injustice of the organized artisanal fishers of Brazil
Rodrigo Randow de Freitas	Characterization and analysis of fishing dynamics and productive chain of communities of traditional fishermen in the municipality of São Mateus, Espírito Santo state, Brazil

Sunday September 21<sup>st</sup>, 11:00-12:30

Portuguese/Spanish Session 1.2: Brazilian and Mexican studies

Location: Regency 2

**Chair: Maria Gasalla/ Julia Ramos**

Presenter	Title
Sylvia Salla Setubal	Development of a computerized system for integrated management of fisheries and participatory, in Tocantins State, Brazil
Polliana Farias Vêras	Potential exploration of fisheries resources in extractive reserve Cururupu-MA, Brazil
Karla Bittencourt Nunes	Perception of environmental artisanal fishermen community of Cajueiro as a result of implementing the pipeline band for integration with the refinery premium
Rodrigo Alberto Pantoja Cabrera	Promoting sustainable fishing: A fishing cooperative's perspective, from Quintana Roo, Mexico
Ondrei Bazant-Fabre	Small-scale fishery vulnerability to land-use change on the influence zone

	of the Veracruz Reef-System
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Sunday September 21st, 13:30-15:00  
Spanish Session 1.3: Mexican studies  
Location: Regency 2

**Chair: Julia Ramos**

Presenter	Title
Verónica Castañeda Fernández de Lara	Sustainable fishing practices made by crab fishermen of the Mexican blue crab <i>Callinectes bellicosus</i> (Stimpson 1859) in the lagoon complex Bahía Magdalena-Almejas, Baja California Sur, México
Antonio Corgos	Monitoring the fishing process and effort in the octopus ( <i>Octopus hubbsorum</i> ) diving fishery of Jalisco, México
Elaine Espino-Barr	Coastal fishery activity in Jalisco and Colima, México, with emphasis on the red snapper <i>Lutjanus peru</i>
Miguel Ángel Ojeda-Ruiz	Small scale finfish fishery of Magdalena-Almejas Bay, Baja California Sur, Mexico
Silvia Yee	Cucapá fishery: Potential factors of governance for a successful gulf corvina fishery in the Upper Gulf of California, Mexico
Crisol Méndez-Medina	Territory and property rights as factors of a successful fishery: A case study of Punta Allen in the Sian Ka'an Reserve, Mexico

Sunday September 21<sup>st</sup>, 15:30-16:30  
Spanish Session 1.4: Mexican studies  
Location: Regency 2

**Chair: Ivan Velazquez**

Presenter	Title
Citlalli Guevara-Cruz	Cooperation processes as fishing strategy in a fishing community of the Yucatan Coast, Mexico
Alejandra Chavez-Hidalgo	The abalone fishery, the benthic community associated, the habitat and climate variability
Ernesto A. Chávez	Optimum harvesting strategies of an octopus fishery of southern Baja California, Mexico

Sunday September 21st, 09:00-17:00  
Workshop 1.1: Student forum  
Organized by: Hannah Bassett, Lindsay Bonito, Neil Ladell, Mirella Leis, Haley Milko, Chloe Poitevin, Daniel Quijano Quiñones, Anna Schuhbauer, Tara Whitty, and Jehroum Wood  
Location: Chichen Itza

### Synopsis:

The Student forum will provide students and recent graduates with a chance to discuss issues relevant to their research and career goals in SSFs. The forum will be composed of two workshops and a panel discussion. As part of the Workshop 1: “Learning to effectively communicate in interdisciplinary research”, students and recent graduates will think about strategies to overcome communication barriers when undertaking and discussing interdisciplinary research. In the Workshop 2: “Better together - student-focused groups and networks”, the focus will be put on (1) sharing advice, resources, and details on activities and outputs from existing student-focused groups, (2) building and enhancing student-focused research groups, and (3) fostering links across student groups, as well as other

research entities. Panel discussion titled “Career guidance” will explore options and opportunities for careers in SSFs, and feature speakers who are in different stages and sectors of SSF research.

Sunday September 21st, 09:30-16:30

Workshop 1.2: Transdisciplinary research and capacity development in small-scale fisheries

Organized by: Ratana Chuenpagdee, Kurt Korneski, Patrick McConney and Terrence Phillips

Location: Uxmal

### Synopsis:

The workshop is organized as part of Too Big To Ignore: Global Partnership for Small-Scale Fisheries Research (TBTI). Its main purpose is to lay foundation for the development of the “transdisciplinary fisheries course” that TBTI is doing, starting from the discussion about what transdisciplinary means and implies, and whether it is necessary to address small-scale fisheries issues and concerns. It also aims to discuss lessons learned from various capacity development initiatives around the world and see what TBTI can contribute to. Specifically, the workshop offers an opportunity to have dialogue about the types of questions, theoretical and methodological issues, themes, and possible case studies around which we might develop the envisioned course. It is also an opportunity for learning and sharing of knowledge and experiences about all aspects of capacity development (goals, methods, process, etc.), especially about what works best, where, why and how.

## MONDAY SEPTEMBER 22<sup>nd</sup>, 2014

Time	Session title	Location
08:30-09:00	Opening ceremony	Regency
09:00-10:30	Plenary 1: Viability, livelihoods & well-being	Regency
10:30-11:00	Refreshment break	Foyer
11:00-12:30	Concurrent sessions 1 <ul style="list-style-type: none"> <li>➤ 1.1: Viability and value chain</li> <li>➤ 1.2: Assessment and monitoring</li> <li>➤ 1.3: Governance (I)</li> <li>➤ 1.4: Spatial management and MPAs</li> <li>➤ 1.5: Stewardship and sustainability</li> <li>➤ 1.6: Speed session</li> </ul>	Regency 2 Regency 3 Regency 4 Chichen Itza Uxmal 1 Uxmal 2
12:30-13:30	Lunch	Swimming pool
13:30-15:00	Plenary 2: Assessment, sustainability and stewardship	Regency
15:00-15:30	Refreshment break	Foyer
15:30-17:30	Concurrent sessions 2 <ul style="list-style-type: none"> <li>➤ 2.1: The social and cultural wealth of small-scale fisheries</li> <li>➤ 2.2: Small-scale fisheries: governance and management strategies. Case studies from Latin America and the Caribbean</li> <li>➤ 2.3: Small-scale fishing communities and ecosystem stewardship: achievements and ongoing efforts</li> <li>➤ 2.4: Climate change and adaptation</li> <li>➤ 2.5: Holistic perspective</li> <li>➤ 2.6: Speed session</li> </ul>	Regency 2  Regency 3  Regency 4  Chichen Itza Uxmal 1 Uxmal 2
18:30-21:30	Welcome reception	UADY



**OPENING CEREMONY (08:30-09:00)**

Location: Regency

- Welcome and opening remarks
- Message from the congress co-chairs

**PLENARY SESSION 1 (09:00-10:30)**

Monday, September 22nd, 09:00-10:30

Plenary 1: Viability, livelihoods and well-being

Location: Regency

**Chair: Derek Johnson**

Plenary speakers	Title
Juan Carlos Seijo Universidad Marista de Mérida, Mexico	Community co-management of metapopulations with source-sink configuration: The small-scale spiny lobster ( <i>Panulirus argus</i> ) fishery of Punta Allen, México
Christina Hicks Stanford University's Center for Ocean Solutions, USA, and James Cook University's Centre of Excellence for Coral Reef Studies, Australia	Social, institutional, and knowledge access mechanisms mediate diverse ecosystem service benefits in small scale fisheries
Tim Acott University of Greenwich, UK	Understanding the importance of small-scale fisheries

**CONCURRENT SESSIONS 1 (11:00-12:30)**

Monday September 22nd, 11:00-12.30

Regular session 1.1: Viability and value chain

Location: Regency 2

**Chair: Rashid Sumaila**

Presenter	Title
Anna Schuhbauer	Economic viability of small-scale fisheries – a global study
Jyothis Sathyapalan	Sustainable gross domestic product from small-scale marine fishery: a study from India
Mauricio Ramírez-Rodríguez	Economic assessment of multispecies finfish fisheries: A case study at the Santa Rosalía region, west coast of the Gulf of California, Mexico.
Michael De Alessi	Cooperation vs. competition: divergent harvest strategies (and profits) in a New Zealand and New England lobster fishery
Caroline Ykuta	Value chains of marine small-scale fisheries: A comparative investigation in the coastal region of São Paulo, Brazil
John Wojciechowski	Value chain optimization within a small-scale fisheries and economic-welfare hybrid model: An analysis of interventions in the indigenous small scale fisheries value chain in Bolivia's Northern Amazon Region

Monday September 22nd, 11:00-12.30

Regular session 1.2: Assessment and monitoring

Location: Regency 3

**Chair: Domingo Flores**

Presenter	Title
Erendira Aceves Bueno	How far are territorial use rights in fisheries from an optimal size?
Mauricio Castrejon	Small-scale shellfisheries co-management in Latin America: A critical

	assessment derived from long-term case studies
John G. Ramírez	Towards management of small-scale fisheries not monitored by government agencies: Study cases in Colombia and Peru
Rosana Ouréns	How to assess complex small-scale fisheries in a cost-effective way? The case of Yoff, a suburb of Dakar (Senegal)
Dirk Zeller	Under-reported small-scale fisheries catches in the Pacific: Reconstructions provide data baselines
Ignacio Gianelli	Co-management in the yellow clam fishery in Uruguay: An assessment using social-ecological indicators

Monday September 22nd, 11:00-12.30

Regular session 1.3: Governance (I)

Location: Regency 4

**Chair: Maarten Bavinck**

Presenter	Title
Samantha Berdej	Bridging organizations and multilevel governance for marine conservation and coastal communities in Indonesia
Shane Fava	Keeping the Small in Small Scale: the Torres Strait Lobster Fishery
Maria Gasalla	Searching cross-learning between small-scale and industrial fisheries governance tools: Is there something to learn from each other?
Hans Ruperti	Bottom-up fisheries management in Ecuador, a lesson to share
Micaela Trimble	Can Ostrom's design principles be used to guide policies towards participatory management? Examples from two South American small-scale fisheries
José Alberto Zepeda Domínguez	The round table of Mexican fisheries: Fisheries governance examples from Northwestern Mexico

Monday September 22nd, 11:00-12.30

Regular session 1.4: Spatial management and MPAs

Location: Chichen Itza

**Chair: German Ponce**

Presenter	Title
Marc Léopold	Putting spatial management into practice: A case study of sea cucumber fisheries in New Caledonia and Vanuatu (Southwest Pacific)
Marcia Moreno-Báez	A collaborative approach to understand interactions between fishing activities, ecosystem processes, and managed areas
Rodrigo Pereira Medeiros	Dynamic territories in traditional people: A case study in two Marine Protected Areas in South Brazil
Tracy Van Holt	Fishing strategies of artisanal fishers in response to landscape changes in southern Chile
Cristiane Elfes	Marine protected areas and fishery displacement: Testing hypotheses in the northern Channel Islands, California
Edgar Torres-Irineo	Assessing the spatial distribution of small-scale vessels' operations from VMS data in the southeastern Mexico

Monday September 22nd, 11:00-12.30

Regular session 1.5: Stewardship and sustainability

Location: Uxmal 1

**Chair: Patrick McConney**

Presenter	Title
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Jaime Aburto	Marine resource management from a local governance perspective. Re-implementation of traditions for marine resource recovery
Helena Molina-Ureña	Fisheries co-management in Costa Rica: Challenges and opportunities for stewardship
Luis M. Manjarrés Martínez	Demographic and environmental determinants of the artisanal fishermen ecological knowledge: a comparative analysis in the Colombian Caribbean coast
Augustine Sosai Siluvaithasan	Illegal fishing methods and its impacts on fishing community: A case study of Mannar District of Sri Lanka
Tara Whitty	"Conservation-scapes" of marine mammal bycatch in small-scale fisheries: A transdisciplinary approach to studying the interface between conservation and fisheries management
Eranga Galappaththi	Can shrimp aquaculture be made resilient? A case from northwestern Sri Lanka

Monday September 22nd, 11:00-12.30

Speed Session 1.6

Location: Uxmal 2

**Chair: Kungwan Juntarashote**

<b>Presenter</b>	<b>Title</b>
Viviana Ramirez-Luna	Pre- and post-implementation processes of Exclusive Fishing Zones for Artisanal Fishers: Lessons from Northern Choco, Colombia
Lucélia Cristina Morais da Silva	Environmental problems and small-scale fishery in Northeast of Brazil
Fanny Vessaz	Influence of socio-economic dimensions and fishers' attitudes on uptake of By-catch Reduction Devices in a south Brazilian small-scale shrimp fishery
Myrna Leticia Bravo Olivas	Ecological footprint of artisanal fisheries in the coast of Jalisco
Ilysa Iglesias	Community-based marine science: a collaborative study on the abundance and life-history of <i>Octopus cyanea</i> in Kaūpūlehu, Hawaii
Veronica Rios	Enhancing the productivity in small scale fishery of lobster <i>Panulirus argus</i> through use of "casitas" (artificial shelters) in Celestun, Yucatan, Mexico
Valdivia-Jiménez Paloma Alejandra	Enhancing fishermen compliance in reduction of fisheries impacts in the Upper Gulf of California Biosphere Reserve and Vaquita Refuge, through a comprehensive education and training program
Wichin Suebpala	Knowledge gap on ecological impacts of fishing gears in Thailand
Chloé Poitevin	Fish as food: Challenges in incorporating fish into Newfoundland's alternative food networks
Victoria Rogers	From conflicts to synergies: Investigating stakeholder interactions in multiple-use coastal areas
Mirella de Oliveira Leis	Limits to MPA governability: Conservation boundaries and resource use compatibility in Southern Brazil
Christopher Baird	Significant inventory loss: Catching the released?: Experiencing escaped farmed Atlantic salmon on Newfoundland rivers in the Coast of Bays region

## **PLENARY SESSION 2 (13:30-15:00)**

Monday, September 22nd, 13:30- 15:00

Plenary 2: Assessment, sustainability and stewardship

Location: Regency

Chair: Ellen Hines

Plenary speakers	Title
Daniel Pauly Fisheries Centre, University of British Columbia, Canada	Small-scale fisheries: A global reassessment of their catches
Derek R. Armitage The Environmental Change and Governance Group University of Waterloo, Canada	Governance and community conservation in coastal-marine contexts and the implications for small-scale fisheries
Karin Fernando Centre for Poverty Analysis, Sri Lanka	How BIG are small scale fishers in the Post 2015 development agenda

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

Monday, September 22nd, 15:30-17:30

Special session 2.1: The social and cultural wealth of small-scale fisheries

Organized and chaired by: Derek Johnson

Location: Regency 2

#### **Synopsis:**

The panel is the product of the project Too Big To Ignore: Global Partnership for Small-scale Fisheries Research (TBTI) and, specifically, its Working Group 3 entitled Broadening the Scope which is concerned to highlight knowledge of the social and cultural value of small-scale fisheries. We foreground the diverse ways in which small-scale fisheries enrich the social fabric of which they form part. With reference to the social wellbeing perspective, ecosystem services approaches, and research on place and identity, the contributors to these panels seek novel ways to demonstrate the contributions of small-scale fisheries. Among other lessons, the panels' papers reinforce the importance of careful attention to the contextual factors shaping the perceptions and values that inform fisher and fishworker economic and political engagements. Contributions to the panel come from Asia and Oceania, Europe, and Latin America.

Presenter	Title
Derek Johnson	Introduction to the panel
Tim Acott	A conceptual framework for understanding small-scale fisheries using cultural ecosystem services (CES) and sense of place (SOP)
Minghua Zhao	Women's contribution to social cohesion in coastal communities: Cases from Belgium, Britain, France and the Netherlands
Carole White	Changing faces and places. Place identity and resilience in the Cromer crab fishery, UK
	Discussion period 1
Julian Idrobo	Adaptation to environmental change through the lens of wellbeing: The case of small-scale fishers on the Atlantic forest coast of Brazil
Natasha Stacey	The Bajau of eastern Indonesia
Alice Ferrer	Revisiting the Municipal fishers of Western Visayas, Philippines
Andrew Song	Highlighting multifaceted values of a small-scale swimming crab fishery near Yeonpyeong Island, South Korea
	Discussion period 2
Adam Jadhav	Taking stock of small-scale fisher diversity: A statistical attempt to paint a nuanced picture of Indian fishing communities
Maarten Bavinck	Enhancing the wellbeing of Tamil fishing communities: The role of self-governing uur panchayats along the Coromandel Coast, India

Gayathri Lokuge	Cultural and ideological values vs economic return: The case of artisanal fishers in the era of mechanization
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Monday, September 22nd, 15:30-17:30

Special session 2.2: Small-scale fisheries: governance and management strategies. Case studies from Latin America and the Caribbean

Organized and chaired by Chelsea Combest-Friedman, Katia Frangoudes, and Maria Jose Espinosa Romero

Location: Regency 3

#### Synopsis:

Small-scale fisheries (SSF) are significant at the global scale. They are important sources of income, food, and development opportunities in coastal regions, especially in developing countries. In addition, SSF represent ways of living, traditions and cultures. Due to the difficulty and cost to exclude others from exploiting the resource, and the increasing growth in the number of fishers, most SSF exhibit the same problems as other common pool resources: the overexploitation of the resources fishers depend on. Thus, many SSF face the need to implement effective management strategies to recover (naturally or artificially) the stocks and ecosystems in order to maintain SSF in the long term. Such strategies can include marine reserves and fish aggregating devices (FAD). Both strategies are explored in this panel, in which fishers, NGOs, and academics share experiences and lessons learned through several case studies from Latin America and the Caribbean.

First session: Academia and NGOs' perspectives and lessons learned on marine reserves and FADs	Second session: Fishermen perspectives and lessons learned on marine reserves
<b>Presenters</b>	<b>Presenters</b>
Roberto Cubillo	Carlos Antonio Martinez Ayala
Norman Flores	Daniel Antonio Ulloa Quintero
Marcio Rivera	Olivier Valverde Vega
Alejandro Cotto	Ivan Antonio Arriola Selva
Vincent Gravez	Sergio Vazquez
Luis Bourillón	Claudia Talamantes
Olivier Guyader	Rodrigo Pantoja
Lionel Reynal	Juan Gabriel López
Katia Frangoudes	Graciela Quijada

Monday, September 22nd, 15:30-17:30

Special session 2.3: Small-scale fishing communities and ecosystem stewardship: achievements and ongoing efforts

Organized and chaired by: Cristiana Seixas, Tony Charles, Patrick McConney and Rodrigo Medeiros

Location: Regency 4

#### Synopsis:

This session aims to highlight the ongoing effort and achievements of many communities around the world in approaching ecosystem stewardship. We bring together the experience of researchers involved in four global and regional networks: Community Conservation Research Network (CCRN), Too Big To Ignore (TBTI), SocMon and TransForMar Network.

Presenter	Topic
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Fikret Berkes	Community conservation: The reality of multiple objectives and the promise of social enterprises
Tony Charles	Overview of the CCRN and the application of its pioneering social-ecological systems lens to the study of how local-level environmental stewardship links with sustainable community livelihoods
Patrick McConney	Overview of TBTI WG4 framework, including the three dimensions of ecosystem stewardship – impacts, monitoring and stewardship
Thiago Serafini	Overview of the special issue of the Journal Desenvolvimento e Meio Ambiente, organized within the TBTI WG4 efforts to be released in December 2014
Rodrigo Medeiros	Lessons learned and will be seeking some synthesis, particularly regarding 1) dimensions of ecosystem stewardship; and 2) intra and inter-regional practical application of stewardship concepts
Maria Peña	The Global Socioeconomic Monitoring Initiative for Coastal Management (SocMon) – one approach with high potential to enhance community level stewardship in the Caribbean
Cristiana S. Seixas	Overview of the achievements of the TransForMar network efforts over the past five years, highlighting lessons learnt from over 15 case studies and the perspectives for community stewardship over coastal resources in Brazil
Steven Alexander	Local level dynamics in an emerging network of co-managed marine reserves in Jamaica
Ana Carolina E. Dias	Development of a participatory monitoring program of small-scale fisheries in a Southern Brazilian Coastal Community (Tarituba, in Paraty, Rio de Janeiro State)
Maren Headley	Factors influencing the harvest strategies in the Punta Allen spiny lobster fishery and management implications

Monday, September 22nd, 15:30-17:30

Regular session 2.4: Climate change and adaptation

Location: Chichen Itza

**Chair: Larry Crowder**

<b>Presenter</b>	<b>Title</b>
Nathan Bennett	Adapting to maintain viable fisheries livelihoods in the face of multiple interacting bio-physical and socio-political stressors
Francisco Arreguín-Sánchez	Evidences of climate change effects on fish stocks in the Campeche Bank and the challenge for management
Marta Leite	Panarchy: Exploring resilience and wellbeing among fishing dependent households
Lars Lindström	Climate change, gendered adaptive capacity and agency among coastal people in Zanzibar, Tanzania
George Freduah	Fisheries and climate change in Western and Central Africa: A review of stresses and adaptive capacity
Ahmed Khan	Governance of adaptation or adaptation of governance? Towards resilience in small scale fisheries
Omar Defeo	Impacts of climate variability on Latin American small-scale fisheries
William Cheung	Scenarios for coastal fisheries under climate change: Impacts, resilience and adaptation potential
Shandel Brown	Sense of place and adaptive capacity: How are fishing communities in Nova Scotia dealing with the impacts of climate change?
Iris Monnereau	What can indicators tell us about how vulnerable the fisheries sector is to climate change in small island developing states?

Monday September 22nd, 15:30-17:30

Regular Session 2.5: Holistic perspective

Location: Uxmal 1

Chair: Reade Davis

Presenter	Title
Cassiano Monteiro-Neto	Historical changes and shifting baselines in the artisanal fishery in the metropolitan region of Rio de Janeiro, Brazil
Domingo C. Flores Hernández	Towards an Ecosystem-based management of the Seabob shrimp ( <i>Xiphopenaeus kroyeri</i> ) Heller 1862) fishery from the littoral of Campeche, Southern Gulf of Mexico
Andrea Moreno	The Valdivia Seascape Project: Reinforcing the management of artisanal fisheries in Chile
Juan Carlos Hernández-Padilla	Sustainability of exploited marine ecosystems: The case of fisheries in Sinaloa, Mexico
Beatrice Frank	Integrating environmental justice, human security, resilience and vulnerability scholarships: Pathway to enhance small-scale fishing communities preparedness to environmental changes
Sergio Mattos	Review of the institutional and legal framework for small-scale fisheries in Latin American and Caribbean Regions

Monday September 22nd, 15:30-17:30

Speed Session 2.6

Location: Uxmal 2

Chair: Rodolphe Devillers

Presenter	Title
Pedro Vidal Tello	Fishermen to service providers: An option for improving the economic income into ten communities on the coast of the State of Guerrero, Mexico
Elvia Aida Marín-Monroy	Socioeconomic aspects of organized coastal fishermen at Magdalena-Almejas Bay, BCS Mexico
Beatriz Mesquita Ferreira	Institutional analysis in monitoring the artisanal fishery and Marine Protected Areas in Pernambuco, Brazil – preliminary results
Ismael Mascarenas	Fishing characterization of two communities inside a biosphere reserve in the Upper Gulf of California, Mexico
Holly T. Cronin	Engaging fishing communities in seaweed aquaculture: Facilitating diffusion of innovation and microenterprise development
Deborah Santos Prado	Livelihood diversification in fishing communities: Lessons and experiences from a coastal village in Brazil
Luis Alfonso Rodríguez Gil	Diagnose distribution and a SWOT analysis of the economic benefits generated by sea cucumber fisheries in a fishing cooperative in the Yucatán, Mexico
Maíra Borgonha	Small scale fisheries systems in Brazil: From sustainability to the collapse
Alejandra López del Río	Governability and fisheries in Lake Chapala: A challenge for law enforcement
Vanessa Jaiteh	Sharks, sails and smugglers: Fishing for new livelihoods in Eastern Indonesia
Jocemar Tomasino Mendonça	Impact of insurance closures in artisanal fishing of the southern coast of São Paulo (Brazil)
Angel Morán-Silva	Proposal for use ecological indicators for the evaluation of the shrimp fishery in the south-central portion of the state of Veracruz
Jorge A. López-Rocha	Variations in abundance and species composition of penaeid shrimp ( <i>Farfantepenaeus spp.</i> ) in the coastal lagoon of Celestun, Yucatan, Mexico
Fausto Silvestri	Characterization of small-scale artisanal fisheries in Angra dos Reis (RJ), Brazil
Ellen Amaral	Productivity and economic development of the <i>Arapaima</i> spp. management in the Amazon Basin

**TUESDAY SEPTEMBER 23<sup>rd</sup>, 2014**

<b>Time</b>	<b>Session title</b>	<b>Location</b>
08:30-08:45	Students' perspective	Regency
08:45-09:00	Special presentation: Let's put the " <i>Pisces</i> " together	Regency
09:00-10:30	Plenary 3: Food, rights and governance	Regency
10:30-11:00	Refreshment break	Foyer
11:00-12:30	Concurrent sessions 3 <ul style="list-style-type: none"> <li>➤ 3.1: Outcomes of neoliberal policies on small-scale fisheries: what the narrative doesn't tell us</li> <li>➤ 3.2: Institutions and markets</li> <li>➤ 3.3: Governance (II)</li> <li>➤ 3.4: Small-scale fisheries: mobilizing scalable pathways to sustainability</li> <li>➤ 3.5: Foundations of successful small-scale fisheries management: from science to governance</li> <li>➤ 3.6: "Pesca-kucha"</li> </ul>	Regency 2  Regency 3 Regency 4 Chichen Itza  Uxmal 1  Uxmal 2
12:30-13:30	Lunch	Swimming pool
13:30-15:00	Plenary 4: Fishers' perspectives	Regency
15:00-15:30	Refreshment break	Foyer
15:30-17:30	Concurrent sessions 4 <ul style="list-style-type: none"> <li>➤ 4.1: North America</li> <li>➤ 4.2: Latin America &amp; the Caribbean</li> <li>➤ 4.3: Asia/Oceania &amp; Africa</li> <li>➤ 4.4: Europe</li> <li>➤ 4.5: Empowering small-scale fisheries to better contribute to food security and poverty eradication</li> </ul>	Regency 2 Regency 3 Regency 4 Chichen Itza Uxmal
18:30-20:00	Movie night	UADY

**Students' perspective (08:30-08:45)**

Location: Regency

**SPECIAL PRESENTATION (08:45-09:00)**

Location: Regency

•Let's put the "*Pisces*" together: introducing the Information System on Small-Scale Fisheries (ISSF) by Rodolphe Devillers

**PLENARY SESSION 3 (09:00-10:30)**

Tuesday, September 23<sup>rd</sup>, 09:00-10:30

Plenary 3: Food, rights and governance

Location: Regency

**Chair: Svein Jentoft**

<b>Plenary speakers</b>	<b>Title</b>
Alejandro Flores Food and Agriculture Organization of the United Nations, Chile	Right to food, food security and small-scale fisheries: Concepts and linkages

Tanya King Deakin University, Australia	The health and well-being of fishers in Australia
Hugh Govan Locally Managed Marine Areas Network, Fiji	Co-management of coastal fisheries in the Pacific Islands: Defining roles and prioritizing actions to move forward

### **CONCURRENT SESSIONS 3 (11:00-12:30)**

Tuesday September 23rd, 11:00-12:30

Special session 3.1: Outcomes of neoliberal policies on small-scale fisheries: what the narrative doesn't tell us

Organized and chaired by: Evelyn Pinkerton

Location: Regency 2

#### **Synopsis:**

The presenters reporting on case studies in Malaysia, Mexico, Iceland, and Canada will examine the impact of neoliberal policies on small-scale fisheries. They will address two main issues:

- (1) The ability of some local institutions to resist or mediate the effects of neoliberal policies and (2) the disconnect between neoliberal discourse about policy objectives and the reality faced by small-scale fisheries governed by neoliberal policies. Questions to be addressed, in priority order:
- (1) How do neoliberal policies affect SSFs and their communities (social capital, cultural and social relations, local institutions, governance of fishing, quota allocations, subsidies, financialization of environmental conservation)? What are the costs associated with these effects?
- (2) How have neoliberal policies in the context of small-scale fisheries evolved or taken different forms over time? Are effects cumulative, permanent, or path-dependent?
- (3) Are there any opportunities for positive outcomes for SSFs within a neoliberal framework? How can local institutions resist or mediate the effects of neoliberal policies?

<b>Presenter</b>	<b>Title</b>
Catherine Chambers	Thirty years after privatization: Opportunities and constraints in fisheries livelihoods in Iceland
Abigail Bennett	Cooperatives, fish buyers and pepineros: Geographically differentiated effects of neoliberal policy reform on local responses to globalized market pressures in Mexican small-scale fisheries
K.Kuperan Viswanathan	Neoliberalism and fisheries subsidies, where do small-scale fishers stand?
Neil Ladell	Analyzing the potential for integrating the Canadian government's intertidal clam fisheries management plan and local aboriginal management principles in the Broughton Archipelago
Jessica MacIntosh	The Tragedy of the Independent: Public Policy and Traditional Recruitment in Nova Scotia's Small Boat Fishery
Evelyn Pinkerton	How are small-scale fisheries faring in under ITQ systems internationally and what does the future hold?
Discussion of questions developed in common	

Tuesday September 23rd, 11:00-12:30

Regular Session 3.2: Institutions and markets

Location: Regency 3

**Chair: Luis Bourillón**

<b>Presenter</b>	<b>Title</b>
Mandy Doddema	MSC's role in the governability of sustainable small-scale fisheries
Nicolas L Gutierrez	Is fisheries certification suitable for small-scale fisheries? Impacts, challenges and potential solutions

Ashley Apel	Fair Trade Certified™ Capture Fisheries Standard
Ricarda Reuter	Understanding Ocean Grabbing
Jennifer Brewer	From market failure to capacity-building: Catch shares and adaptation in the New England groundfishery
Francisco Araos	“Pre” step-zero and beyond: Local Institutional paths in marine conservation in Latin America and Caribbean

Tuesday September 23rd, 11:00-12:30

Regular Session 3.3: Governance (II)

Location: Regency 4

**Chair: Francisco Arreguín-Sánchez**

Presenter	Title
Xavier Basurto	Towards a theory of small-scale fisheries self-governance in a globalized world
Arthur Bull	The small-scale fisheries Learning Circles Project
Murray A. Rudd	International ocean research priorities: How do issues relevant to small-scale fisheries fit into the big picture?
Moenieba Isaacs	A decision support tool for global change in marine systems: IMBER-ADApT
Elena Finkbeiner	On access and adaptive capacity: Lessons from small-scale fishing cooperatives in Baja California Sur, Mexico
David McGrath	Self-fulfilling prophecies: Small scale fisheries, government policy and the transition to aquaculture

Tuesday, September 23rd, 11:00-12:30

Special session 3.4: Small-scale fisheries: mobilizing scalable pathways to sustainability

Organized and chaired by: Brian Crawford

Location: Chichen Itza

#### **Synopsis:**

Co-organized by the University of Rhode Island's Coastal Resources Center and the Rockefeller Foundation's Ocean and Fisheries Initiative, this session will present and discuss ongoing market and rights-based initiatives to reduce fisheries overcapacity, build more resilient and equitable livelihoods for fisher communities, and conserve productive and resilient marine ecosystems. The session will include six panel speakers from the United States, South East Asia, Africa, and Latin America.

Presenter	Title
Cristina Rumbaitis del Rio	Introduction to the oceans and fisheries initiative
Brian Crawford	Addressing the overcapacity issue in small-scale fisheries
Nygiel Armada	Towards management of access in small-scale fisheries: Innovative technologies for registering fishers and vessels in the Philippines
Dawda Foday Saine	The Gambia: Use rights and empowering stakeholders in the sole fishery
Brendan Fisher	Fish, farms and food security: Building resilience in diversified coastal livelihoods
Jorge Alejandro Risi Mussio	Peru: Reducing overcapacity through sustainable financing

Tuesday, September 23rd, 11:00-12:30

Special session 3.5: Foundations of successful small-scale fisheries management: from science to governance



Organized by: Environmental Defense Fund and World Wildlife Fund  
 Moderated by Dan Whittle and Louise Heaps  
 Location: Uxmal 1

### Synopsis:

Fishery practitioners from Belize, Cuba, Mexico, Galapagos, Pakistan, and Mozambique will illustrate the foundations of good small-scale fishery management by describing how such approaches were implemented in their fisheries. They will focus on how to improve the scientific basis of management with data collection and data limited assessments, how to improve fishery governance to align incentives with desired outcomes, how to create processes that harness local knowledge and facilitate the co-creation of equitable solutions, and how to overcome key obstacles. They will also discuss how fishery management tools can be combined to improve overall fishery performance. This session will follow a format, which will allow for audience members to interact with panelists and encourage cross-regional exchange of ideas and learning.

Presenter	Title
Rafael Puga	Using science to improve fisheries management
Mario Ramade	Marine reserves of fishing interest: Participation and co-management
Adriel Castañeda	How Belizean managed access ensures sustainable local fisheries
Robert Whale	Transforming fisheries: Where, why and how
Helena Motta	No fishing areas and fishermen participation in Mozambique
Jorge Ramirez	Impact of the global financial crisis over a local-small scale fishery: The Galapagos spiny lobster fishery

Tuesday September 23rd, 11:00-12:30  
 “Pesca-kucha” Session 3.6  
 Location: Uxmal 2

**Chair: Ratana Chuenpagdee**

“Pesca-kucha” session is modeled after Pecha Kucha, a presentation style that involves 20 slides shown for 20 seconds each (a total of six minutes and 40 seconds for each presentation). Join this fun, concise and fast-paced talk by our speakers who are competing for the best “Pesca-kucha” prize.

Presenter	Title
Courtney Lyons	Examining the intersections of post-colonialism, place-making and development in the Pribilof Islands, Alaska
Gabriela Galindo-Cortes	Estimations of MSY of main finfish fisheries caught in the west Mexican coast of the Gulf of Mexico
Olivier Randin	Small-scale fisheries in the San Andres archipelago (Colombia): Questioning scales and levels analysis
Leopoldo Cavalieri	Building a national network to support artisanal fisheries in Brazil
Rodrigo Oyanedel	Small-scale fisheries and the emergence and consolidation of Marine Protected Areas: Insights from two contrasting bottom-up initiatives in central Chile
Tiffanie Rainville	Optimizing the contribution of small-scale fisheries to food security, livelihoods and resilience in Bolivia’s northern Amazon
Alex Zachariah	Motivations for community-based conservation: A case from Odisha, India

### **PLENARY SESSION 4 (13:30-15:00)**

Tuesday, September 23rd, 13:30-15:00  
 Plenary 4: Fishers’ perspectives  
 Location: Regency

**Chair: Moenieba Isaacs and Jose Pascual**

Panelists
<ul style="list-style-type: none"> <li>• Margaret Stevenson, Women's Industry Network Seafood Community, Australia</li> <li>• Juan Ramon Roger, Cofradía de Gran Tarajal, Spain</li> <li>• Jose Luis Carrillo, Federación Centro Poniente, Mexico</li> <li>• Mitchell Lay, Caribbean Network of Fisher folk Organizations, Antigua and Barbuda</li> <li>• Ritha Sandal Kadaso, Chabula Landing site Beach Management Units, Tanzania</li> <li>• Tony Doyle, Fish Food and Allied Worker, Canada</li> </ul>

#### **CONCURRENTS SESSIONS 4 (15:30-17:30)**

Tuesday, September 23rd, 15:30-17.30

Regional session 4.1: North America

Location: Regency 2

**Chair: Charlene Walsh**

Presenter	Title
Reade Davis	Mixing oil and water: Integrated planning and incommensurability in Placentia Bay, Newfoundland
Sara Breslow	Accounting for “social drivers” in ecosystem-based management: The case of neoliberalism
Carrie Pomeroy	Just what is 'small-scale' anyway? Dynamics and change in California's coastal commercial fisheries
Flaxen Conway	Does the relationship between fishermen and enforcement officer's impact regulatory compliance?
Sabrina Doyon	Losing ground: The marginalization of the St. Lawrence eel fisheries in Québec, Canada
Durdana Islam	Can small-scale commercial and subsistence fisheries co-exist? Lessons from Norway House Cree Nation, northern Manitoba, Canada
Stephen Schroeter	The fox guarding the henhouse? : Making the case for co-management of the San Diego sea urchin fishery
Madeleine Hall-Arber	Tidal waves of change in New England's small-scale fisheries

Tuesday September 23rd, 15:30-17:30

Regional Session 4.2: Latin America & the Caribbean

Location: Regency 3

**Chair: Alvaro Hernández**

Presenter	Title
Lina M. Saavedra-Díaz	Understanding how nine dimensions of small-scale fishing communities impact management: A Colombian case study
Carmen Pedroza	Social networks and supply chain dynamics in fish trade, a theoretical perspective
Oriana Trindade de Almeida	Diversity and food security in the Amazon estuary
Andy Bystrom	Artisanal fisher perceptions regarding the sustainability of bottom long line use in the district of Bejuco, Guanacaste, Costa Rica
Fabricio Gandini	The loss of fishing territories in coastal areas: The case of the seabob-shrimp small-scale fishery in São Paulo, Brazil
Diana Szteren	POPA - Por la Pesca Artesanal en Piriápolis: A participatory research group in coastal Uruguay
Caroline Arantes	Measuring the development of community-based conservation in small-scale fisheries in the Amazon

Erika Bockstael	Capacity development with fishers: A Freirean approach to empowerment
Miguel Gonzales	Social protection systems and small scale fisheries in Latin America: A preliminary assessment
Alison Macnaughton	Understanding the social aspects of community-based fisheries management: a preliminary map of Amazon experiences and stories of change
Alfonso Aguilar-Perera	Lack of governance in a small-scale fishery: The case of fishing on grouper spawning aggregations off the Yucatan Peninsula, Mexico

Tuesday September 23rd, 15:30-17:30  
Regional Session 4.3: Asia/Oceania & Africa  
Location: Regency 4

**Chair: Jyothis Sathyapalan and Paul Onyango**

Presenter	Title
Shaara Ainsley	Developing Participatory Fisher Surveys to Monitor Fish Catch in the Mekong River Basin
Thamasak Yeemin	Influence of tourism-industry development on small-scale fisheries' livelihood in Ko Samui, Thailand
Eny Buchary	On fish and palm oil: Influence of landscape change brought about by oil palm plantation development on small-scale freshwater fisheries in Kalimantan, Indonesia
Annie Lalancette	Conventional management and indigenous fisheries: Lessons from the tropical rock lobster fishery in Torres Strait, Australia
Sapta Putra Ginting	Indonesia coastal community development project: Small-scale fisheries and lessons learned
Alan White	The Coral Triangle Initiative on coral reefs, fisheries and food security: Progress towards the establishment of effective marine protected areas for improved fisheries management
Sieglinde Wallner	The use of destructive drag nets in Zanzibar: User perceptions and willingness and capacity to change
Najih Lazar	Collaborative fisheries management planning for a sustainable fisheries future: The Sardinella fishery in Senegal
Afamdi ANENE	A Review of the ecological, social and economic consideration in sustainable inland fisheries in Nigeria: Problems and solutions
Ishmael B.M. Kosamu	Conditions for sustainability of the Elephant Marsh Fishery in Malawi
Brian Jones	LMMA networking for improved governance in small-scale fisheries in Madagascar

Tuesday September 23rd, 15:30-17:30  
Regional Session 4.4: Europe  
Location: Chichen Itza

**Chair: Lisa Maddison**

Presenter	Title
Joonas Plaan	Fisher's knowledge, power and regulations in Baltic Sea region: Mobile fisheries and shifting livelihoods in Kihnu Island, Estonia
Alyne Delaney	"As long as there are glaciers there will be fish?" Investigating the social impacts of ITQs on Greenland's small-scale coastal halibut fishery
Gonzalo Macho	The times they are a-changing': The radical and successful transformation of the Galician (NW Spain) artisanal shellfisheries
Sophia Kochalski	An evidence-based toolbox to assess the sustainability of inshore fisheries
Birgit de Vos	Fishing in the margin? Small scale fisheries in the Netherlands

Rebecca Korda	Is there a crisis in the English small-scale fisheries?
Jose Pascual	Small scale fisheries and fish marketing: Governance challenges and synergies with tourism in Tenerife (Spain)
Julia Urquhart	Approaches and methods to understand the importance of small-scale fisheries (SSF) through the lens of cultural ecosystem services (CES)
Christina Pita	The traditional small-scale octopus fishery in Portugal: Framing its governability

Tuesday, September 23rd, 15:30-17:30

Special session 4.5: Empowering small-scale fisheries to better contribute to food security and poverty eradication

Organized by Food and Agriculture Organization of the United Nations

Location: Uxmal

**Chaired by: Alejandro Flores**

### **Synopsis:**

Fishers, researchers and other professionals in the sector have understood for some time that empowerment is a key aspect of fisheries governance. Until recently, this concept has been ignored in the international fisheries development agenda. The empowerment of fishers and their communities is a critical objective of the recently approved Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication, the Voluntary Guidelines on the Responsible Governance of Tenure of Land, Fisheries and Forestry in the Context of National Food Security as well as other processes both inside and outside the UN system. In short, the empowerment of fishers, fish workers and their communities is critical for the sustained development of small-scale fisheries and therefore, a crucial component of their ability to enhance food security and nutrition. Additionally, the strengthening of community-based and professional organizations in the small-scale fishers sector enhances the opportunities for small-scale fisheries stakeholders to exercise their right to organize, participate in the development and decision-making processes and influence the fisheries management outcomes. Strong organizations could also improve the participation of fishers and fish workers in policy dialogues, as well as their access to markets, financial services and infrastructure.

<b>Presenter</b>	<b>Title</b>
Empowerment through knowledge	
Alejandro Flores	Contribution of SSF to food security and family income in some Latin American countries
Felix Marttin	Inland fisheries: Always ignored
Empowerment through association	
Susana Siar	Strengthening organizations and collective action in small-scale fisheries
Empowerment through opportunity	
Audun Lem	Market access: Opportunities and challenges for small-scale fisheries
Yvette Diei-Ouadi	Securing small-scale fisheries benefits through an inclusive approach to post-harvest systems management
Discussion	
Q&A and moderated discussion with presenters and participants	
Empowering SSF to better contribute to food security and poverty eradication:	

- Experience sharing and best practices
- Roles and responsibilities
- Improving participation

### Movie night

Tuesday September 23, 2014

UADY Auditorium, 6-8 pm

### Screening order:

<b>1. Community Voices in the Sea of Cortez by Julia Goss &amp; Liza Hoos</b> Duration: 5'25 minutes Region/Country: LAC /Mexico Language: Spanish English subtitles: Yes	<b>4. The last fisherman by Greenpeace/Contented Productions</b> Duration: 5'35 minutes Region/Country: EUR/UK Language: English
<b>2. One Catch by Liza Hoos &amp; Xavier Basurto</b> Duration: 8'4 minutes Region/Country: LAC/Mexico Language: Spanish English subtitles: Yes	<b>5. A new system using raised racks to dry fish is changing the way processors of Lake Tanganyika go about their business by Dr. Yvette Diei Ouadi</b> Duration: 7'43 minutes Region/Country: AFR/ Burundi Language: English English subtitles: Yes
<b>3. A Sal y Sol. Hombres a la Mar. by Juan Carlos Reyes.</b> Duration: 14 minutes Region/Country: LAC /Mexico Language: Spanish English subtitles: Yes	<b>6. Follow the Tide by Thomas Szacka-Marier</b> Duration: 30 minutes Region/Country: AFR/Senegal Language: Wolof English subtitles: Yes

\*\*\* We thank UADY for providing us with the venue. The event is hosted by Alfonso Aguilar-Perera of UADY and Rolf Willmann \*\*\*

## WEDNESDAY SEPTEMBER 24<sup>th</sup>, 2014

Wednesday, September 24th, 08:00-18:00

Field excursion day: Culture, history and fisheries discussion circles

Location: Progreso and vicinity

This one-day trip offers congress participants a glance at coastal development, Mayan ruins, and a visit to two fishing communities: Progreso (the largest port of the Yucatan) and Chuburna (a small coastal community nearby). This is an opportunity for fishers from around the world to interact, share knowledge and exchange experiences and idea with each other, with local fishers and with other

congress participants. We will be hosted by local fishers, who will kindly provide us with seafood lunch, and there will be opportunity for people to go around and explore Progreso at your leisure.

In addition to the above visits, there will be FOUR discussion circles for fishers and other congress participants to join:

- a) "Fisher-to-Fisher" talk circles: interactive chat among fishers coming from 35 different countries and local fishers, with others as observers;
- b) "Indigenous learning circle": interactive chat among indigenous fishers and other participants about current issues, options and opportunities for the future;
- c) "Sea cucumber fisheries circle": learn from local fishers about the situation facing sea cucumber fisheries in their area and focus the discussion around potential solutions; and
- d) "Small-scale fisheries guidelines circle": find out what the FAO small-scale fisheries guidelines are about and share your idea about how fishers locally, nationally and globally can benefit from these guidelines.

Note that these discussion circles are designed to be dynamic and interactive. In order to encourage participation of fishers, the discussion can be conducted in any language suitable for the group members. The discussion circles will last between 1 to 1.5 hours. Translators and note-takers will be around to help facilitate the discussion and keep the conversations flowing.

Important information: Those pre-registered for the field excursion will have the first priority in confirming their participation and selecting what discussion circle they wish to join. Only when space becomes available, we will invite those on the waiting list. If you have pre-registered for the field trip, please make sure to see a special desk at the registration. You will receive more information about the field trip at that time.

#### THURSDAY SEPTEMBER 25<sup>th</sup>, 2014

Time	Session title	Location
09:00-10:30	Concurrent sessions 5 <ul style="list-style-type: none"> <li>➤ 5.1: Living with environmental change: An analysis of social-ecological adaptations in lagoon-based small-scale fishery systems across the world</li> <li>➤ 5.2: Rights and access</li> <li>➤ 5.3: Governing the governance (Part 1)</li> <li>➤ 5.4: Quantitative assessment methods adapted to data-limited, small-scale fisheries</li> <li>➤ 5.5: Speed session</li> </ul>	Regency 2  Regency 3 Regency 4 Chichen Itza  Uxmal 1
10:30-11:00	Refreshment break	Foyer
11:00-12:30	Concurrent sessions 6 <ul style="list-style-type: none"> <li>➤ 6.1: Multiple-use/multi-stakeholders governance</li> <li>➤ 6.2: Innovative approaches to improve management of small-scale fisheries: Challenges and opportunities</li> <li>➤ 6.3: Governing the governance (Part 2)</li> <li>➤ 6.4: Ecosystem and assessment</li> <li>➤ 6.5: Livelihoods and sustainability</li> <li>➤ 6.6: Speed session</li> </ul>	Regency 2 Regency 3  Regency 4 Chichen Itza Uxmal 1 Uxmal 2
12:30-13:30	Lunch	Swimming pool
13:30-15:30	Plenary 5: Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication	Regency
15:30-16:00	Refreshment break	Foyer

16:00-17:30	Plenary 6: Reflections and looking forward	Regency
19:00-23:00	Closing dinner and award presentation	Club de Leones

### **CONCURRENT SESSIONS 5 (09:00-10:30)**

Thursday, September 25th, 09:00-10:30

Special session 5.1: Living with environmental change: An analysis of social-ecological adaptations in lagoon-based small-scale fishery systems across the world

Organized by Prateep Kumar Nayak and Sarah Coulthard

Location: Regency 2

**Chaired by Fikret Berkes**

#### **Synopsis:**

The panel will focus on coastal lagoons and take a broader social-ecological-institutional-economic analysis of lagoon functioning, using case studies from across the globe. The panel results from an ongoing book project that aims to bring together research on the ways in which people live with and respond to the dynamic and often unpredictable environments of lagoon social-ecological systems. The aim of the panel is to contribute to the understanding of how lagoon-based small-scale fishery societies respond to, and deal with environmental change and its implications for the theory and practice of governance and sustainability.

<b>Presenter</b>	<b>Title</b>
Prateep Kumar Nayak	Lagoon systems as learning platforms for living with dynamic social and environmental change
Mark Andrachuk	An approach for understanding social-ecological change and transformation through community perceptions of system identity in the Cau Hai lagoon, Vietnam
Ashok Selvaraj	Role of local knowledge in adaptation to environmental change: A case of Chilika Lagoon small-scale fishery, India
Sajida Awan	Environmental change and property rights: The case of Nurri and Jubhoo lagoons in the Indus delta, Pakistan
<b>Panelist</b>	
Tony Charles	
Derek Armitage	

Thursday, September 25th, 09:00-10:30

Regular Session 5.2: Rights and access

Location: Regency 3

**Chair: Minerva Arce**

<b>Presenter</b>	<b>Title</b>
Luciana Loto	Update the status of "turn right" of fishing systems in Arraial do Cabo and Itaipu. (RJ Brazil)
Paulina Martínez González	"Forced eviction of artisanal fishermen in the South Coast of Jalisco: Violation of collective rights and damages to the biocultural diversity"
Elizabeth Clark	The role of policy change processes in the development of successful rights-based management: A comparative analysis of sea urchin fisheries in Mexico, the U.S., and Canada
Sebastian Villesante	Navigating transformations in marine stewardship of small-scale fisheries in Latin America and the Caribbean
Elodie Le Cornu	Assessing multiple outcomes and critical assumptions underpinning rights-based fisheries management in practice
Nikolai Alexander Alvarado	¿Del mar quién es dueño? Small-scale Fisheries, Tourism Development and the Struggles Over Access To Marine Resources in Gigante, Nicaragua



Thursday, September 25th, 09:00-10:30

Special session 5.3: Governing the governance (Part 1)

Organized and chaired by: Svein Jentoft and Ratana Chuenpagdee

Location: Regency 4

**Synopsis:**

Fisheries governance experience is generally one of failure and disappointment. Despite decades of efforts, we are not doing a good job in achievable sustainable fisheries goals. Fisheries resources are in peril, large segments of the industry are in crisis, and people whose livelihoods depend on them are negatively affected. How can this be? Why do these problems persist? Does the effort lack the needed resolve, or could it be that fisheries systems are inherently complex and difficult to govern? Or is it because the governing institutions are simply not up to the task? Drawing examples and experiences from small-scale fisheries governance around the world, papers in this session aim to address these questions through interactive governance and governability lens, as they apply to the challenges facing this sector. The session is organized as part of Too Big To Ignore, Working Group 6.

Presenter	Title
Svein Jentoft	Are small-scale fisheries (really) governable?
Maria-Jose Barragan Paladines	Two rules for the same fish: Marine small-scale fisheries management in Ecuador mainland and Galapagos Islands
Sölmundur Karl Pálsson	From institutional dysfunction to institutional stability: Explaining governance success in the Lake Winnipeg fishery since the late 1960s
Estelle Jones	The governability of mangrove ecosystems: Self-governance in an ever changing world
Mafaniso Hara	Lessons from existing modes of governance in Malawi's artisanal fisheries
Iris Monnereau	Governability along the value chains of lobster fisheries in the Wider Caribbean

Thursday, September 25th, 09:00-10:30

Special session 5.4: Quantitative assessment methods adapted to data-limited, small-scale fisheries

Organized and chaired by: David Kaplan

Location: Chichen Itza

**Synopsis:**

The objective of this session is to present a variety of different quantitative and qualitative assessment approaches that have been adapted to small-scale fisheries, focusing on how each approach addressed the difficulties of limited data. Approaches addressed will span a wide variety of different levels of complexity and detail, including single-species stock assessment, metapopulation dynamics, ecosystem approaches and MPA assessments. There will be a short discussion at the end of the session around the theme of identifying best practices for assessment in data limited situations and developing a set of tools or recommendations for assessment at different levels of complexity.

Presenter	Title
David Kaplan	Data-limited population-status evaluation of two coastal fishes in southern Angola using recreational catch length-frequency data
Jan Robinson	Evaluation of the effectiveness of marine reserves for transient spawning aggregations in data-limited situations
Amy Hudson	Facing data-poor, multi species fisheries head on: Community fisheries monitoring techniques in Baja California Sur, Mexico
Gonzalo Macho	The barefoot ecologists: "Social catalysts" and local providers of scientific/technical support for allowing informed community based management

Lysel Garavelli	Establishment of a fishery management plan for the gastropod <i>Concholepas concholepas</i> (loco) in Chile by assessing larval connectivity
Miriam Fernández	Patterns of abundance and mortality rate of benthic resources: the trade-off between sustainability in TURFs and adjacent exploited areas

Thursday, September 25th, 09:00-10:30

Speed Session 5.5

Location: Uxmal 1

**Chair: Kurt Korneski**

Presenter	Title
Ana Paula Rosso	Metapopulation analysis as a tool for a marine extractive reserve management in southern Brazil: The clam <i>Anomalocardia brasiliensis</i> (Gmelin, 1791) as a case study
Abigail Sutton	Deciphering contextual influences on local leadership in community-based fisheries management
Mario Rojo	Economic and social strengthening of fishermen and fishing organizations
René Scharer	Community based tourism and other complementary income in coastal and river/lake communities
Sarah Harper	Toward gender equality in small-scale fisheries: Constraints and opportunities
Jehroum Wood	Incorporating GIS into Socio-economic Monitoring for Coastal Managers (SocMon)
Elena De la Guardia	Characterization of the reef fish fishery in the National Park “Cayos de San Felipe”, Cuba
Tetsu Sato	Integrated Local Environmental Knowledge (ILEK) supporting voluntary actions of fishermen toward sustainable resource and community managements
Shinichiro Kakuma	Governance of “Satoumi” in Coral Reefs - To harmonize conservation and sustainable fisheries
Pável Galeana Guarneros	Depletion of sea cucumbers in Isla Arena may have enhanced local governance to promote resilience in the social-ecological system
Felipe E. Sosa-Cordero	Challenges in applying the ecosystem approach under data scarcity: the case of the grouper (Serranidae) fishery in northern Quintana Roo, Mexico

#### **CONCURRENT SESSIONS 6 (11:00-12:30)**

Thursday September 25th, 11:00-12:30

Regular Session 6.1: Multiple-use/multi-stakeholders governance

Location: Regency 2

**Chair: Jose Pascual**

Presenter	Title
Priscila F. M. Lopes	Fisheries, tourism and marine protected areas: Conflicting or synergistic ecosystem services?
Julia Fraga	Marine Protected Areas and Maritime Heritage in the context of tourism: the new frontiers for Fishers and fishing villages in the Yucatan Peninsula
Margot L. Stiles	Conflict between small-scale and industrial fisheries: When does national policy help or hurt?
Dirk J. Steenbergen	Mediations across co-management interfaces: Revealing interests and accountabilities through conflicts over small scale fisheries in the Kei Islands, eastern Indonesia

Patrick Sakiusa Fong	Tangled in their own safety nets: Fijian small scale fisher's responses to fisheries resource scarcity
Charlotte Grubb	Moving beyond employment figures: Case studies on the dynamics of livelihoods and small-scale fisheries

Thursday September 25th, 11:00-12:30

Special Session 6.2: Innovative approaches to improve management of small-scale fisheries: Challenges and opportunities

Organized and chaired by: Silvia Salas and Charles Steinback

Location: Regency 3

#### **Synopsis:**

Effective management of small-scale fisheries requires a variety of information. This session will explore how technologies are advancing opportunities and decreasing the risk for small-scale fishers: from communication tools, fishery related data collection for assessment and management, vessel monitoring systems, to improved hookah systems. The session includes five talks presenting cases studies from 20 fishing communities (Southeast, Mexico, Virgin Island, and USA) where development and application of technology showed to have a positive impact on small-scale fishers.

<b>Presenter</b>	<b>Title</b>
Charles Steinback	Digital deck: Mobile data solutions improving fisheries health and management
Silvia Salas	Interdisciplinary approach for the development and implementation of a vessel monitoring system for small-scale fisheries
Oswaldo Huchim-Lara	Evaluating risk on human health and resources sustainability in a lobster fishery of Yucatan, Mexico: Combining local knowledge and technology
Walter Chin	User-friendly hookah system adaptations to improve fishers' health. What can we learn?
Jorge Torre	Using technology for community building: Smartphones and Facebook
Lourdes Jiménez Badillo	A new tool to enhance the stewardship of the Mexican small-scale fisheries in the Gulf of Mexico

Thursday, September 25th, 11:00-12:30

Special session 6.3: Governing the governance (Part 2)

Organized and chaired by: Svein Jentoft and Ratana Chuenpagdee

Location: Regency 4

<b>Presenter</b>	<b>Title</b>
Ron Jones	Now, where do all the fish go?" The impacts and implications of the Deep Fisheries Reforms on the governability of aquatic resources in the Great Lake Tonle Sap, Cambodia
Michael Hurley	Fisheries governance and coordination problems- A case study of coordination and community co-management in Senegal
Joeri Scholtens	Governability of transboundary fisheries and their impacts on small-scale fisheries: an inquiry from Palk Bay, South Asia
Kevin St. Martin	Instituting "Sectors" in New England Fisheries: Producing Governable Fishermen or a New Foundation for Economic Difference?
James Prescott	Governance and governability: The small scale fisheries of Pulau Rote in eastern Indonesia
Ratana Chuenpagdee	Small-scale fisheries as a governability challenge

Thursday September 25th, 11:00-12:30  
Regular Session 6.4: Ecosystem and assessment  
Location: Chichen Itza

**Chair: Juan Carlos Seijo**

Presenter	Title
John F. Caddy	Assessing inshore fisheries for juveniles while recognizing the key role of survival to spawning
Fausto Valenzuela-Quiñonez	Assessing vulnerability to fishing process in a critically endangered fish
Carlos T. Techeira	A review of the monitoring and assessment methodologies applied in the Chilean TURF system for the management of benthic resources
Jeppe Kolding	The optimal fishing pattern for achieving an ecosystem approach to fisheries
J.C. Selgrath	Justifying the need for action on gear intensification in small-scale fisheries

Thursday, September 25th, 11:00-12:30  
Regular session 6.5: Livelihoods and sustainability  
Location: Uxmal 1

**Chair: Lourdes Jiménez**

Presenter	Title
Carlos G. Garcia-Quijano	Quality of life, well-being and rural coastal livelihoods in Puerto Rico
Nina Mendez	Fishermen perceptions and actions toward human health and resources sustainability in artisanal fisheries of the Yucatan Peninsula
Nicole Corpuz	Evaluating restoration strategies for the recovery of an scallop population in the Ensenada de La Paz, Baja California Sur
Alvaro Hernández	Dependence of Yucatan coastal population on small-scale fisheries
Sara Fröcklin	Gender, livelihoods and coastal and marine management in East Africa
Jan Freiwald	Involving fishing communities in Baja California, Mexico, in the monitoring of their resources to achieve sustainable fisheries and livelihoods

Thursday September 25th, 11:00-12:30  
Speed Session 6.6  
Location: Uxmal 2

**Chair: Alfonso Aguilar**

Presenter	Title
Paula Santos	Speaking up for artisanal fisheries: The role of communication and culture in fostering the wellbeing of fishers
Leandro Castello	Toward understanding fishing-induced extinctions in the tropics: an Amazonian example
James Riwu	An unlikely partnership: Data collection in a small scale fishery in the Timor Sea
Tatiana Leite	Small-scale octopus pot fisheries: From science to reality
Carrie Pomeroy	Integrating local knowledge and practices with management: A collaborative at-sea sampling program for small-scale fisheries
Paula Castro	Fishing gears in Barra Bonita and Bariri reservoirs (Tietê River Basin, SP – Brazil) : Familiar technology and social-environmental sustainability

Ximena Renan Galindo	Challenges and opportunities for the development of a sustainable artisanal finfish fishery in Yucatan, Mexico
Philippa Cohen	The role of community-based management for sustaining the small-scale fisheries of Pacific Island Countries
Mirtha O. Albañez-Lucero	Sustainability and changes in the usage pattern of the red grouper ( <i>Epinephelus morio</i> ) of the Bank of Campeche, by commercial fleets
Richard N. Muallil	Coral reef fisheries in the Philippines: The role of small Marine Protected Areas in heavily fished coral reef ecosystems
Jesús M. Jiménez	Formal and informal rules as part of Colombia's artisanal marine fisheries management

#### **PLENARY SESSION 5 (13:30-15:30)**

Thursday, September 25th, 13:30-15:30

Plenary 5: Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication

Organized by Food and Agriculture Organization of the United Nations and Too Big To Ignore

Location: Regency

#### **Synopsis:**

The Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the Context of Food Security and Poverty Eradication (SSF Guidelines) were recently endorsed at the 31st Session of the FAO Committee on Fisheries in June 2014. The SSF Guidelines will only be effective if they are widely known by stakeholders and systematically applied in accordance with the guiding principles they establish. To support the implementation of the guidelines, a Global Assistance Programme (GAP) is established. This special session will inform about the history and content of the SSF Guidelines as well as about the GAP. Taking advantage of the ample expertise at the Congress, the session will invite participants to actively provide recommendations and inputs to the development of the GAP by breaking into working groups to discuss the main components of the GAP.

#### **PLENARY SESSION 6 (16:00-17:30)**

Thursday, September 25th, 16:00-17:30

Plenary 6: Reflections and looking forward

Location: Regency

**Chair: Tony Charles**

#### **Panelists**

- Naseegh Jaffer, Masifundise Development Organization, South Africa
- Rolf Willmann, former Food and Agriculture Organization of the United Nations staff
- Madeleine Hall-Arber, Massachusetts Institute of Technology, USA

#### **FRIDAY SEPTEMBER 26<sup>th</sup>, 2014**

Friday, September 26th, 9:30-16:00

Special session: Too Big To Ignore (TBTI) general meeting

Location: Regency

**Chair: Ratana Chuenpagdee**

**Synopsis:**

The 'Too Big To Ignore' (TBTI) is a global research partnership established to elevate the profile of small-scale fisheries (SSF) around the world, to argue against their marginalisation in national and international policies, and to develop research and governance capacity to address global fisheries challenges. Officially launched in September 2012, this six-year long Social Sciences and Humanities Research Council (SSHRC) project is an open network that encourages anyone interested in SSF, including fishers, fisher organizations, practitioners, managers, policy makers, donors, students and researchers to participate in an interactive discussion about SSF. Be part of the network, join the conversation, and contribute your idea at the TBTI general meeting about what we can do to support small-scale fisheries around the world.

**List of committees****Local Organizing Committee****Silvia Salas (Chair)**

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Instituto Politécnico Nacional Centro Interdisciplinario de Ciencias Marinas - CICIMAR

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**Ivan Velázquez-Abunader**

Unidad Mérida del Centro de Investigación y de Estudios Avanzados – CINVESTAV

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**Mary Gasalla**

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University of Western Cape, South Africa

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Centre for Economic and Social Studies, India

Scientific Committee

#### **Scientific committee**

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Memorial University, Canada

**Eddie Allison**

School of Marine and Environmental Affairs, University of Washington, USA

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Atlantida del Sur

Ayuntamiento de Mérida



Ayuntamiento de Progreso  
Centro de Desarrollo y Pesca Sustentable  
Comunidad y Biodiversidad A.C.  
Cooperativa Autogestionaria de Servicios Profesionales para la Solidaridad Social R.L.  
Estado de Yucatán, México, F. C. de R. L.  
Fauna & Flora International  
Federación de Cooperativas del Oriente de Yucatán  
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Food and Agriculture Organization of the United Nations  
Fundación Futuro Latinoamericano  
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Instituto de Historia y Museos de Yucatán  
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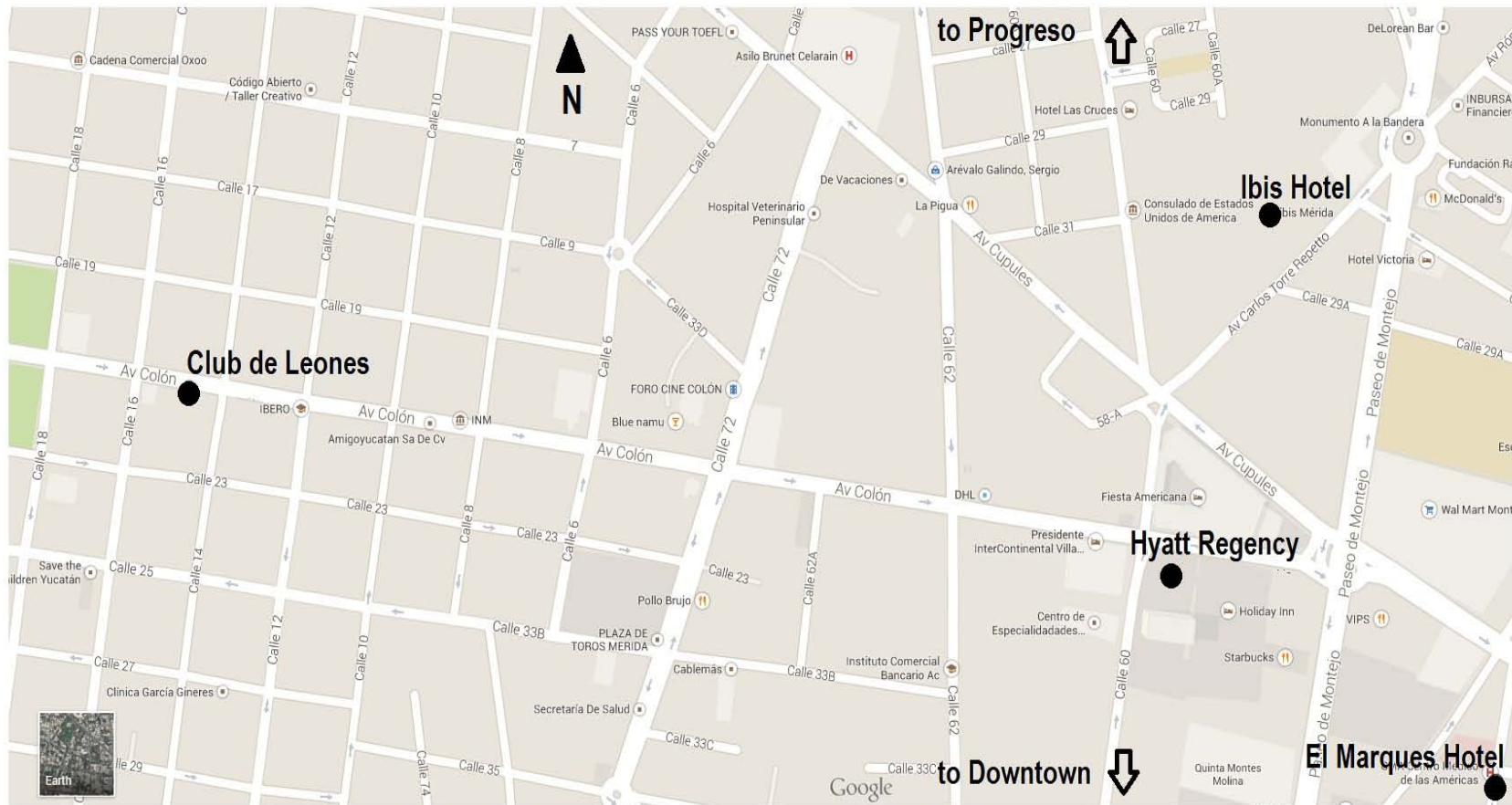
**Congress secretariat**

Miguel Cabrera (CINVESTAV)  
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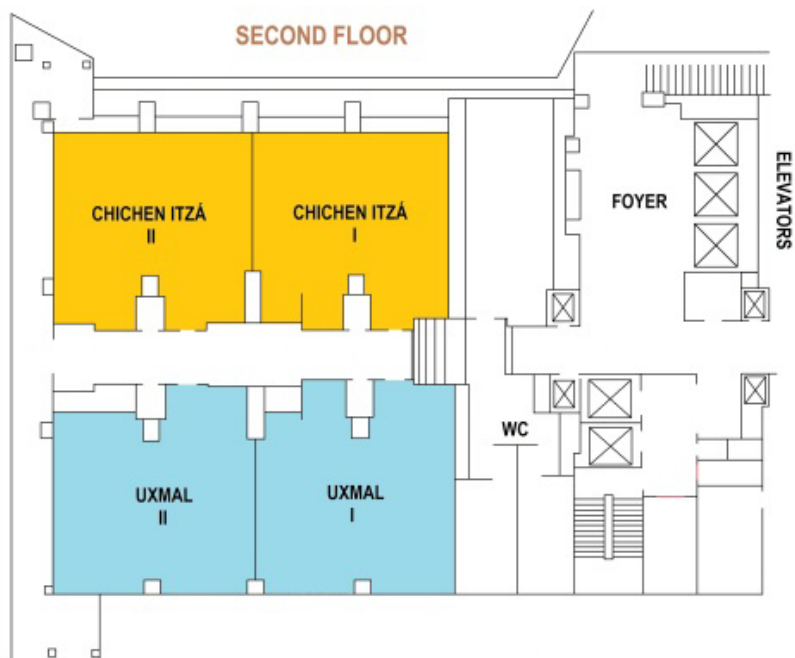
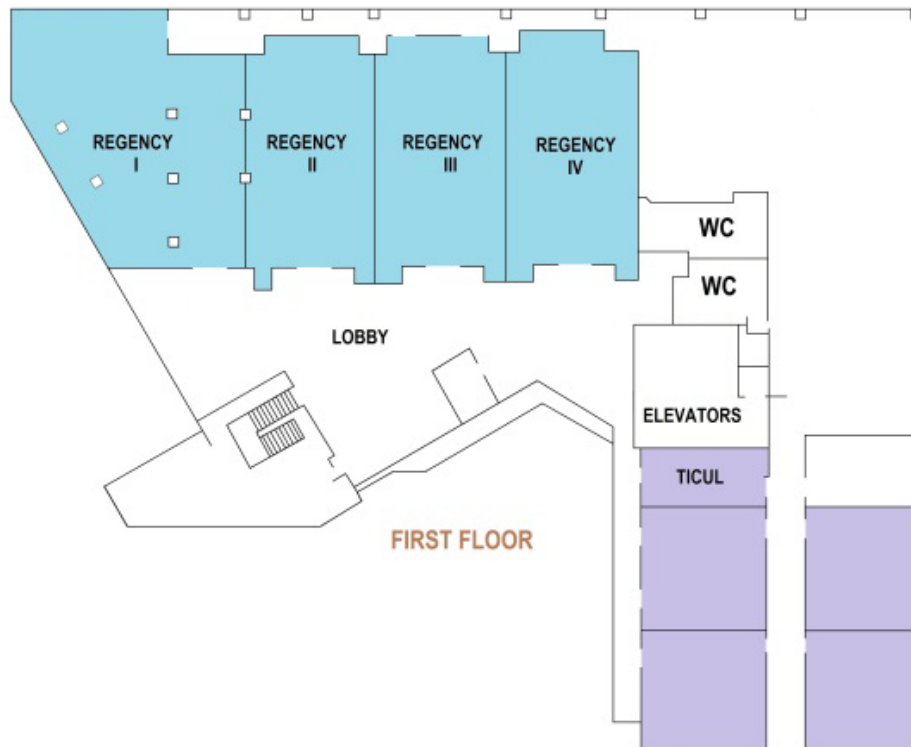
Vesna Kerezi (MUN)  
Andrea Quigley (MUN)

Local event organizer: Amigo Yucatan

### Area map



### Hyatt floor plan



## Congress Co-hosts

