8:00- 8:30  Breakfast snacks available as buses arrive at venues from hotels
8:30-10:00  Panel Session FRI-A

**FRI-A.1** Studying Complex Systems with the Social-Ecological Systems (SES) Framework to track Social, Institutional, and Biophysical Data

Jiba 4

Chair: Prateep Kumar NAYAK (Faculty of Environment, Waterloo)

Methodological Relevance of the Social-Ecological Systems Framework in Understanding Urban Lake Governance in India
Mansee BAL (Erasmus University)

Participatory Strategic Management Model of the Social-Ecological System for Sustainable Community Forestry Development in Mexico
Concepcion LUJAN (University of Chihuahua)
Miguel OLIVAS (University of Chihuahua)
Hilda GONZALEZ (University of Chihuahua)
Susana VASQUEZ (University of Chihuahua)
Juan CHACON (University of Chihuahua)
Humberto LUJAN (Secretary of Public Education, Mexico)
Ciro HERNANDEZ (University of Durango, Juarez)
Constance FALK (New Mexico State University)

System Dynamics, Commons, Groundwater, Collective Action
Rahul CHATURVEDI (Anthra (Foundation for Ecological Security)
Pratiti PRIYADARSHINI (Anthra (Foundation for Ecological Security)

**FRI-A.2** Law and the Commons: Claiming the Commons: Litigation and Legal Struggle to win Robust Rights

Onshirin 1

Chair: Minoti CHAKRAVARTY-KAUL (Lady Shri Ram College, Delhi)

Building up Regional Archives for Collecting Historical Documents on Habitual Iriai [Commons] Practice and Trials
Keizo HAYASAKA (Iwate University)

Commons and Commoner: Litigating the Public Interest in India
Rita BRARA (Department of Sociology, University of Delhi)

Public Interest Litigation and Environmental Protection in Rural Communities in China
Jiro SAKURAI (Kobe City University of Foreign Studies)
Xiangbin ZENG (Partner Attorney, Beijing Yingke Law Firm)
Akihiro CHIASHI (Ritsumeikan University)

Developing Organizational Structure of Kesatuan Pengelolaan Hutan (KPH) Limapuluh Kota District, West Sumatra, Indonesia, for Sustainable Forest Management
MAHDI (Andalas University)

Developing Organizational Structure of Kesatuan Pengelolaan Hutan (KPH) Limapuluh Kota District, West Sumatra, Indonesia, for Sustainable Forest Management
Arbain ARDINIS (Andalas University)
Senatung MGO (West Sumatra Provincial Government)
8:30-10:00 Panel Session FRI-A

FRI-A.3 Economic Approaches to Environmental Commons: Payments for Ecosystem Services, Mitigation, and Pollution Taxes

Chair: Elizabeth SHAPIRO-GARZA (Nicholas School of the Environment, Duke University)

- Incentive-based management of the commons: Understanding gaps between policy prescriptions and practice in the Amazon region
  - Hugo ROSA DA CONCEICAO (Center for Development Research, Bonn)
  - Jan BORNER (Center for Development Research, Bonn)

- The Role of Local Level Institutions for Forest Commons Management in Mexico’s National Payments for Ecosystem Services Program
  - Elizabeth SHAPIRO-GARZA (Duke University)

- Can commercialization really solve externalities in the forested areas? Lessons learned from payment for environmental services schemes in Indonesia
  - Akhmad FAUZI (Bogor Agricultural University)

- Strength and Weaknesses of Ecological Compensatory Measures in the United States: institutional changes, ecological efficacy, and economic efficiency
  - Harold LEVREL (French Research Institute for Exploitation of the Sea (IFREMER), University of Occidental Brittany)
  - Ramiro BUITRON (University of Occidental Brittany)
  - Pierre SCEMAMA (French Research Institute for Exploitation of the Sea (IFREMER), University of Occidental Brittany)
  - Anne-Charlotte VAISSIERE (French Research Institute for Exploitation of the Sea (IFREMER), University of Occidental Brittany)

- Effectiveness of Regional Environmental Taxes in Lake Kasumigaura Basin
  - Yoshiro HIGANO (University of Tsukuba)
  - Takeshi MIZUNOYA (University of Tsukuba)

FRI-A.4 Wildlife: Tension between Conservation of Biodiversity and Potentially Unsustainable Consumption

Chair: Ngeta KABIRI (Institute of Advanced Studies, United Nations University)

- Institutional Framework for creating Biodiversity Commons through Biodiversity Management Committees in India
  - Hemant K. GUPTA (Government of Himachal Pradesh)

- Conservation, poverty alleviation, and the creation of a new model for equitable distribution of benefits derived from guanaco sustainable use
  - Gabriela LICHTENSTEIN (National Institute for Anthropology and Latin American Thought, Argentina)

- Discord between tourism benefit and human-elephant conflict cost in the IKONA Wildlife Management Area, Serengeti, Tanzania
  - Yukino IWAI (Waseda University)

- Communal Management of Wildlife for Hunting
  - Mitsuhiro TAKAHASHI (University of Toyama)
  - Hiromi TAGUCHI (Tohoku University of Art and Design)
  - Guy CHARLTON (City University of Hong Kong)
8:30-10:00 Panel Session FRI-A

**FRI-A.5** The Role of the State in Decentralizing and Privatizing Irrigation Networks
Onshirin 4

Chair: Kulbhushan BALOONI (Indian Institute of Management at Kozhikode)

- Decentralization of irrigation as a reconfiguration of state-society relationships: Reflections from the Guyu Irrigation Scheme in Zimbabwe
  - Everisto MAPEDZA (International Water Management Institute (IWMI))
  - Tambudzai RASHIRAI (University of Zimbabwe and IWMI)

- Eroding Community Norms and Sustainability of Irrigation Tanks in a Predominantly Agrarian Tribal Community in South India
  - Kullbushan BALOONI (Indian Institute of Management at Kozhikode)
  - Vineetha MENON (School of Social Sciences, Kannur University, Kerala)

- State-Reinforced Self-Governance in Staving off the Tragedy of the Irrigation Commons in Japan
  - Ashutosh SARKER (Monash University at Sunway, Malaysia)

- Collisions of traditional commons with the modernized institution of rice-paddy irrigation systems in Japan
  - Mikiko SUGIURA (Shibaura Institute of Technology)
  - Atsushi ISHI (University of Tsukuba)
  - Masahiro TAJIMA (Water Environmental Engineering)

**FRI-A.6** Small Scale Coastal Fisheries: Organization of Space, Rights, and Enterprise in Stationary Coastal Fisheries
Onshirin 6

Chair: Alyne DELANEY (Aalborg University, IASC Commons Digest)

- Abalone Divers, Gleaners, and Community in Coastal Commons in Japan
  - Akiko IKEGUCHI (Yokohama National University)

- The AquaCulturist’s Problem: The Evolution of Ocean Space as Property along Japan’s Pearl Coastlines
  - Kjell ERICSON (Princeton University and Kobe University)

- From Policy Instruments to Action Arenas: Rules and procedural justice under conditions of social-ecological change in the Southwest Nova Scotian Lobster Fishery
  - Alain BARNETT (Arizona State University)

**FRI-A.7** Equity and Distributive Justice Within and Among Resource-Dependent Communities
Jiba 9

Chair: Abwoli BANANA (Makerere University)

- Small villages, big neighbours: Patterns in Interactions and Governance of the Commons
  - Subrata SINGH (Foundation for Ecological Security)

- Community Cohesion and Distress: Tracing the roots of Resource Use Routes and Social Equity in Maranhão, Brazil
  - Roberto PORRO (Brazilian Agricultural Research Corporation (EMBRAPA), Eastern Amazon)

- Erosion of Commons in India: Role of Inequalities
  - Sneha THAPLIYAL (Indian Institute of Management, Bangalore)
  - Arnab MIKHERJI (Indian Institute of Management, Bangalore)
  - Deepak MALGHAN (Indian Institute of Management, Bangalore)

- Methods for Analysing Gender Roles in Forest Products Chains in the Congo Basin
  - Verina INGRAM (Center for International Forestry Research)
### 8:30-10:00 Panel Session FRI-A

#### FRI-A.8

**State-Society Collaboration (or Conflict) in Community Use of Forests**

**Chair:** Jin SATO *(The University of Tokyo)*

- **Building Common Ground:** Complex multi-party governance of forests in Northwest Ontario, Canada
  - Melanie ZURBA *(Natural Resources Institute, University of Manitoba)*
  - John SINCLAIR *(Natural Resources Institute, University of Manitoba)*
  - Alan DIDUCK *(Natural Resources Institute, University of Manitoba)*

- **Islands of the Commons -- The Community Forest and Ecological Security in Northeast Thai Villages**
  - Wataru FUJITA *(Konan Women’s University)*

- **Indigenous Peoples’ preference of land use in the disputed state forest lands of Chittagong Hill Tracts, Bangladesh**
  - Abu Saleh Md Golam KIBRIA *(The University of Tokyo)*
  - Makoto INOUE *(The University of Tokyo)*
  - Mohammed JASHIMUDDIN *(University of Chittagong)*
  - Tapan Kumar NATH *(University of Chittagong)*

- **Rebuilding capacities and commons in indigenous communities with high migration in Mexico**
  - Leticia MERINO *(Instituto de Investigaciones Sociales, Universidad Nacional Autónoma de México)*

#### FRI-A.9

**Urban Commons: Creating New Forms of Cooperation and Community -- housing, gathering spots, soundscapes, marketplaces**

**Chair:** Charlotte HESS *(Syracuse University)*

- **Collective Learning and community Collective Action in a United States neighborhood**
  - Charlotte CLARK *(Duke University)*

- **Beyond State and Market: The role of the new common spaces for Japan’s Post-Growth Society**
  - Christian DIMMER *(Research Center for Advanced Science and Technology, Tokyo University)*

- **Life with Weaving Noise in Fujiyoshida City: A Soundscape as Commons**
  - Kazuya MINOURA *(Yamanashi Prefectural University)*

- **Markets as urban commons: how are they managed by traders in Madagascar?**
  - Takeshi SAKURAI *(Hitotsubashi University)*
  - Yutaka ARIMOTO *(Hitotsubashi University)*
  - Mari TANAKA *(Stanford University)*
  - Tsilavo RALANDISON *(Institut supérieur de technologie d’ Antananarivo)*

#### FRI-A.10

**Campaigns for the Commons: Can external NGOs assist commoners in collective action to enhance rights and improve resource outcomes?**

**Chair:** Jagdeesh PUPPALA *(Foundation for Ecological Security)*

- **Kick-starting collective action where it didn’t previously exist -- the role of NGOs in the organization of Forest Rights Act Committees in India**
  - Frank VAN LAERHOVEN *(Utrecht University)*
  - Rucha GHATE *(SHODH: The Institute for Research and Development, Nagpur)*

- **Reinstituting Use and Management Rights on Forest Commons: Lessons from a case study in central India**
  - Rucha GHATE *(SHODH: The Institute for Research and Development, Nagpur)*

- **Towards adaptive governance and polycentric policy without direct initiative from the state: assessing the potential of new environmental institutions and initiatives in a north-European context**
  - Christopher SHORT *(University of Gloucester)*
10:30-12:00 Panel Session FRI-B

FRI-B.1 Governance of Genetic Resources: Protecting Genetic Diversity and Endangered Species

Chair: Charles SCHWEIK (University of Massachusetts)

Schemes of the Nagoya Protocol as the Commons: Framework on Classifying Expected Benefits and Costs for Appropriate Utilization of Genetic Resources
- Mikihiko WATANABE (University of Yamanashi)

Hybrid Variety Creation as a local management tool for Vegetable Landrace as local commons
- Yoshiaki NISHIKAWA (Nagoya University)
- Kazuhiro NEMOTO (Shinshu University)

Governance performance and social networks in endangerd species conservation: a case of Reuben Lady’s Slipper
- Kazushige YAMAKI (Forestry and Forest Products Research Institute, Sapporo)

Integrating traditional norms and formal law for collaborative protection of the Indonesian Orangutan
- Elizabeth Linda YULIANI (Center for International Forestry Research)
- Hasantoja ADNAN (Center for International Forestry Research)
- Valentinus HERI (Riak Bumi Foundation, West Kalimantan)
- Denny Onesimus BAKARA (Riak Bumi Foundation, West Kalimantan)
- Ade Ahmad BIJANI (Riak Bumi Foundation, West Kalimantan)

FRI-B.2 Law and the Commons: Customary Land Rights and Formal Property Law: Complementary or Contradictory?

Chair: Elizabeth BRABEC (University of Massachusetts Amherst)

The Impact of Legalizing Communal Land Rights in the Last Decade of Indonesian Law Reform
- Yance ARIZONA (Episterna Institute, Jakarta)

Legal Pluralism and Land Management Practices: a case study of Tripura, India
- Debesh DEB BARMA (Indian Institute of Technology, Bombay)

Gender, Citizenship, and Land Rights in Tribal India: Probing Institutional Governmentality
- Purabi BOSE (“Navinchandra Mafatlal Sadguru Water and Development Foundation, Maharashtra)

Community Commons: An Analysis of the Gullah Communities of South Carolina
- Elizabeth BRABEC (University of Massachusetts Amherst)

Interpreting the Commons: State, Case, and Customary Law on Common Property Rights in South Africa
- Elmien DU PLESSIS (University of Johannesburg)
- Gino FRANTZ (University of Johannesburg)
### 10:30-12:00 Panel Session FRI-A

#### FRI-B.3 Institutional Innovations for Catalyzing Collective Action for Resource Management in a Changing Climate

**Chair:** Ruth MEINZEN-DICK (International Food Policy Research Institute)

- **Identifying the Institutions for Climate Smart Agriculture**
  - Ruth MEINZEN-DICK (International Food Policy Research Institute)
  - Quinn BERNIER (International Food Policy Research Institute)
  - Eric HAGLUND (International Food Policy Research Institute)
  - Helen MARKELOVA (University of Minnesota)
  - Kelsey MOORE (International Food Policy Research Institute)

- **Groupons for Conservation: A Proof of Concept for Agglomeration payments in Agricultural Programs**
  - Paswel MARENYA (International Food Policy Research Institute)
  - Andrew BELL (International Food Policy Research Institute)

- **The Regional Project for Peasant Management of Natural Resources and Food Systems: 18 years of GEA’s Practice in the State of Guerrero, Mexico**
  - Catarina ILLSLEY (Group for Environmental and Social Studies (GEA), Mexico D.F.)

#### FRI-B.4 Power in Institutions and Institutional Analysis

**Chair:** Insa THEESFELD (Leibniz Institute of Agricultural Development in Central and Eastern Europe)

- **Identifying and Using Human Capabilities in Institutional Analysis**
  - Naveed PAYDAR (School of Public and Environmental Affairs, Indiana University)
  - Graham EPSTEIN (Ostrom Workshop in Political Theory and Policy Analysis, Indiana University)

- **Power and Leadership - the Missing Key to Institutional Analysis**
  - Insa THEESFELD (Leibniz Institute of Agricultural Development in Central and Eastern Europe)

- **The re-spatialized Geography of Commons Theory: How Migration Reconfigures Institutional Choice in the Territorial Commons of Mexico**
  - Jim ROBSON (Natural Resources Institute, University of Manitoba)
  - Dan KLOOSTER (Department of Environmental Studies, University of Redlands)

#### FRI-B.5 Participatory Management of Water: Water Resources for Ecosystem Services in Agriculture and Urban Areas

**Chair:** Michael COX (Environmental Studies, Dartmouth College)

- **Synergy effects of investment of farmers and governments on irrigation commons for sustainable management**
  - Kazumi YAMAOKA (Japan International Research Center for Agricultural Sciences (JIRCAS))

- **High use-value Common Resources for Equity and Sustainability: the experience of groundwater regulation and management from Andhra Pradesh, India**
  - Suvarna CHANDRAPPAGARI (Special Commissioner for Watersheds, Government of Andhra Pradesh)

- **Role of the Natural Environment Management Plan for Tama River in Integrated Watershed Management**
  - Maiko NISHII (Institute of Advanced Studies, United Nations University)
  - Toshimori TAKAHASHI (Utsunomiya University)

- **Research on the current issues in water resource management in the Murray-Darling Basin, and the possibilities of Australian Landcare as the key to a solution**
  - Tomomi MAEKAWA (Tokyo Institute of Technology)
  - Michael SEIGEL (Nanzan University)
  - Toshio KUWAKO (Tokyo Institute of Technology)
10:30-12:00 Panel Session FRI-B

**FRI-B.6** Surveying Forest Communities: What do locals know, value, and do in the forest?

Chair: Makoto INOUE (The University of Tokyo)

Community forestry (Hutan Kemasyarakatan/HKm) Program Implementation and Local Community Participation on Protection

Forest Management in Decentralization Era: The Case of Lampung Province, Indonesia

Hari KASKOYO (University of Tokyo)
Makoto INOUE (University of Tokyo)

Local Knowledge to Inform Effective Management of Protection forests: a case study from Indonesian Borneo

Imam BASUKI (Center for International Forestry Research)

Securing the forests, strengthening governance -- Reflection on the indigenous peoples forest corridor approach

Mynabel POMARIN (Anthropology Watch, Philippines)

Factors Influencing Sustainability in Customary Forests

Christine WULANDARI (Lampung University)

**FRI-B.7** Equity in markets for Eco System Services

Chair: Sango MAHANTY (Australian National University)

Forest carbon as a global commons: understanding the equity implications of REDD+ at the local level

Melanie MCDERMOTT (Rutgers University)
Kate SCHRECKENBERG (University of Southampton)
Sango MAHANTY (Australian National University)

Green Growth as a Climate Change Game Changer

Jochen HINKEL (Global Climate Forum, Berlin)

"Equity" by talk and practice: REDD+ "equity" in the commons

Irmeli MUSTALAHTI (University of Eastern Finland)
Melis ECE (University of Eastern Finland)
Salia RANTALA (University of Eastern Finland)
Tiina KONTINEN (University of Eastern Finland)

Can Free, Prior and Informed Consent improve Social Equity? International Lessons from the Mining and Forest Sectors

Sango MAHANTY (Australian National University)
Discussant: Sango MAHANTY (Australian National University)
### 10:30-12:00 Panel Session FRI-B

#### FRI-B.8 Grabbing Resources and Rents from Conflicted Commons

Chair: Forrest FLEISCHMAN (Dartmouth College)

- Pillaging and Saving the Commons
  - Liz ALDEN WILY (Independent Land Tenure Specialist)
- Conservation Policies and Conflicts in Protected Areas: case study of the Bamboko Forest Reserve, Cameroon
  - Andreas Tambe AKOMBI (Catholic University of Central Africa)
- Commons and Livelihood Tradeoffs: Indian Experiences
  - Himadri SINHA (Xavier Institute of Social Service, Jharkand)
- Threats and Contestations: Forest and Water Resource Mining in Jhamar Kotra, Udaipur, India
  - Neha SINGH (Indian Institute of Technology Bombay)

### FRI-B.9 Transitions in Uses of the Commons: From Use to Under-Use, from Material Extraction to Cultural Creation

Chair: Hiroe ISHIHARA (Research Institute for Humanity and Nature, Kyoto)

- Reverting Disused Fishpond Areas Covered by Fishpond Lease Agreement to Mangrove Forests in Region VI, Philippines
  - Alice Joan FERRER (University of the Philippines Visayas)
  - Jinky HOPANDA (University of the Philippines Visayas)
  - Michael ORQUEJO (University of the Philippines Visayas)
  - Alan Dino MOSCOSO (University of the Philippines Visayas)
  - Resurreccion SADABA (University of the Philippines Visayas)

- Managing Under-used Satoyama as a New Commons for the Harmonious Coexistence of Humans and Nature in Japan
  - Ashutosh SARKER (Monash University Sunway Campus, Malaysia)

- A monograph on historical change of the relationship between the common forest and the people of Katsuyama Village, Northern flank of Fuji, regarding the change of economical position of the bamboo work as subsistence forest production
  - Akira OGASAWARA (Yamanashi Institute of Environmental Sciences)
  - Hitoshi IKEGUCHI (Yamanashi Institute of Environmental Sciences)

- Co-management of the forest with religious trees by the community people and the government
  - Hatsuko HOYANO (The University of Tokyo)
10:30-12:00  Panel Session FRI-B

### FRI-B.10 Spatial Planning in Indonesia: insights from research and action at the Regency Level

**Chair:** Esther MWANGI (Center for International Forestry Research)

**From theories and models to management perspective: the integration of scientific and traditional ecological knowledge in the management of the commons in the Moluccas, Indonesia**

- Yves LAUMONIER (Center for International Forestry Research (CIFOR) and Agricultural Research for Development (CIRAD))
- Masatoshi SASAOKA (Center for International Forestry Research and Hokkaido University)
- Amaline VALLET (Agroparistech)
- Ariane COSIAUX (University Montpellier)

**Scenarios building in complex commons: Challenges, opportuninities and lessons learned in engaging multiple stakeholders to improve land use decisions**

- Bayuni SHANTIKO (Center for International Forestry Research)
- Nining LISWANTI (Center for International Forestry Research)

**Spatial land use planning in Indonesia: Pitfalls and opportunities of multi-level governance in Moluccas Province**

- Moira MOELIONO (Center for International Forestry Research)
- Louis DUREY (Center for International Forestry Research)
- Esther MWANGI (Center for International Forestry Research)

**A view from the inside: Forest communities' perceptions of tenure security in Indonesia**

- Esther MWANGI (Center for International Forestry Research)
- Helen MARKELOVA (Center for International Forestry Research)
- Moira MOELIONO (Center for International Forestry Research)
- Nining LISWANTI (Center for International Forestry Research)
- Bayuni SHANTIKO (Center for International Forestry Research)

**Discussant:** Moira MOELIONO (Center for International Forestry Research)

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12:00-13:30 Lunch (Jiba 2)
## 13:30-15:00 Panel Session FRI-C

### FRI-C.1
**Community Conservation Research: Exploring Meaning, Motivation Governance, and Outcomes through a Social-Ecological Systems Lens 1: Comparative Analysis**

Chair: Anthony CHARLES (Saint Mary’s University)

- Are Small-scale Fishing Livelihoods Compatible with Environmental Security and Stewardship?
  - Fikret BERKES (Natural Resources Institute, University of Manitoba)
- Regime Shifts in Coastal-Marine Systems and the Implications for Community-based Conservation Policy and Governance
  - Prateep NAYAK (University of Waterloo, Canada)
  - Derek ARMITAGE (University of Waterloo)
- Comparison of stakeholders’ roles: Case Studies of Marine Protected Areas in Japan
  - Mitsutaku MAKINO (National Research Institute of Fisheries Science, Fisheries Research Agency, Japan)

Discussant: Anthony CHARLES (Saint Mary’s University)

### FRI-C.2
**Law and the Commons: From Public Trust to Real Trust?: Devolution of Land Rights to Communities, Decentralization, and Democracy**

Chair: Jamie THOMSON (Fenway News)

- Common Lands made "Wastelands" -- Making the "Wastelands" Back into Common Lands
  - Subrata SINGH (Foundation for Ecological Security)
- Migration and Property in the Mangrove Forest: the formation and adaptation of property arrangements of the Buginese in an open access delta in Mahakam, East Kalimantan, Indonesia
  - Myrna SAFITRI (Epistema Institute, President University, Jakarta)
- The cultural dimension of land governance in tribal India and Uganda: a micropolitics analysis
  - Purabi BOSE (Navinchandra Mafatlal Sadguru Water and Development Foundation, Maharashtra)
- Decentralization and Participation in Senegal’s Forestry: Potentials and Failure of Constitutionality of Local Conventions
  - Papa FAYE (Institute of Social Anthropology, University of Bern)

### FRI-C.3
**Collective action in agri-environmental policies: Linking the OECD and developing countries**

Chair: Makitaro SHOBAYASHI (Gakushuin Women’s College)

- The role of agri-environment measures in promoting co-ordinated land management in large-scale conservation initiatives
  - Ian HODGE (University of Cambridge)
  - Bill ADAMS (University of Cambridge)
- Managing agri-environment commons through collective action: lessons from OECD countries
  - Tetsuya UETAKE (Organization for Economic Cooperation and Development (OECD))
- The provision of agri-environmental public goods through collective action: evidence from case studies in Italy
  - Francesco VANNI (National Institute of Agricultural Economics (INEA), Italy)
- Collective action and a Systems Perspective -- a bigger picture for resource use and institutional regimes
  - Jagdeesh PUPPALA (Foundation for Ecological Security)

Discussant: Ruth MEINZEN-DICK (International Food Policy Research Institute)

- Shiri’ichi SHOGENJI (Nagoya University)
13:30-15:00 Panel Session FRI-C

FRI-C.4 Engaging Communities and Cooperatives in Fisheries Governance: Emerging Challenges and Pathways in Asian Countries
Chair: Thomson Kaleekal (Cochin University of Science and Technology)

- Estimation of the magnitude of peer-monitoring practices in Japanese coastal fisheries as a function of satoumi
  Nobuyuki Yagi (The University of Tokyo)
  Yukiko Takada (The University of Tokyo)

- Engaging Communities and Cooperatives in Fisheries Governance: Emerging Challenges and Pathways in Kerala, India
  Thomson Kaleekal (Cochin University of Science and Technology)

- Analysis of the Performance of Financial Support to the Fishers by the Fishery Cooperatives in Kerala, India
  Lisa Kikuchi (Graduate School of Agricultural and Life Sciences, The University of Tokyo)
  Nobuyuki Yagi (The University of Tokyo)

- An Economic Evaluation of Restructuring Artisanal Marine Fishery Cooperatives for Secure Livelihoods, Kerala, India
  Baiju K.K. (School of Industrial Fisheries, Cochin University of Science and Technology)

FRI-C.5 Complex Commons and Water Governance in Mexico
Chair: Raul Pacheco-Vega (Centro de Investigacion y Docencia Economicas, AC (CIDE, AC) Region Centro)

- Understanding the dynamics of institutional erosion in wastewater governance processes through a case study of the Lerma-Chapala river basin council in Mexico
  Raul Pacheco-Vega (Centro de Investigacion y Docencia Economicas, AC (CIDE, AC) Region Centro)

- Institutional configurations for urban water management in Mexico
  Maria de Lourdes Amaya-Ventura (Universidad Autonoma Metropolitana Cuajimalpa)

- The impact of governance and institutional arrangements for aquifer users upon groundwater depletion in the Costa de Hermosillo in Mexico
  Nicolas Pineda Pablos (El Colegio de Sonora)
Panel Session FRI-C

13:30-15:00 How to make the Social-Ecological Systems (SES) Framework more Diagnostic

Chair: Insa THEESFELD (Leibniz Institute of Agricultural Development in Central and Eastern Europe)

The Diagnostic Power of the SES Framework
Insa THEESFELD (Leibniz Institute of Agricultural Development in Central and Eastern Europe)

Addressing Theory Laden-ness and Value Orientations in development and application of the Social-Ecological Systems (SES) Framework
Tilman HERTZ (Stockholm Resilience Centre, Stockholm University)
Maja SCHLEUTER (Stockholm Resilience Centre, Stockholm University)

A diagnostic procedure for applying the SES framework to diverse cases
Jochen HINKEL (Global Climate Forum, Berlin)
Maja SCHLEUTER (Stockholm Resilience Centre, Stockholm University)
Michael COX (Dartmouth College)

FRI-C.7

Enhancing Gender Equity in Ugandan and Nicaraguan Community Forests

Chair: Anne LARSON (Center for International Forestry Research)

Comparative Assessment of Gender Roles in Community Forests in Uganda and Nicaragua
Anne LARSON (Center for International Forestry Research)
Esther MWANGI (Center for International Forestry Research)
Jeffrey ALWANG (Virginia PolyTechnic Institute)

Enhancing women’s participation in forest management using Adaptive Collaborative Management in selected districts of Uganda
Concepta MUKASA (Association of Uganda Professional Women in Agriculture and Environment (AUPWAE))
Alice TIBAZALIKA (Association of Uganda Professional Women in Agriculture and Environment (AUPWAE))
Abwoli BANANA (Makerere University)
Gloria GUMMAH (Association of Uganda Professional Women in Agriculture and Environment (AUPWAE))
Esther MWANGI (Center for International Forestry Research)

Gender, tenure and community forests in Uganda: Policy and Practice for Women’s Participation
Abwoli BANANA (Makerere University)
Concepta MUKASA (Association of Uganda Professional Women in Agriculture and Environment (AUPWAE))
Alice TIBAZALIKA (Association of Uganda Professional Women in Agriculture and Environment (AUPWAE))
Esther MWANGI (Center for International Forestry Research)

Inclusive natural resource governance and Adaptive Collaborative Management in Indigenous Communities of Nicaragua
Xochilt HERNANDEZ LEIVA (Nitlapan - Central American University (UCA))
Pilar MUELLER OPORTA (Nitlapan - Central American University (UCA))
Roberto MARCHENA WILLIAMS (Nitlapan - Central American University (UCA))
Alejandro PIKITLE PEDRO (Nitlapan - Central American University (UCA))
Ceferino WILSON WHITE (Nitlapan - Central American University (UCA))
Kristen EVANS (Center for International Forestry Research)

Discussant: Esther MWANGI (Center for International Forestry Research)
13:30-15:00 Panel Session FRI-C

FRI-C.8 Healthy Forests in Strong Communities vs. Forest Decline in Conflicted Settlements

Jiba 10

Chair: Motoko SHIMAGAMI ( Ehime University)

The Heritage of Tenganan (Bali) as a Model of Common Resource Management for Achieving Sustainability
Utari VPRYANTI (Mahasaraswati Denpasar University)

The Role of Local Institutions in the Communal Forest Preserve "Rimbo Larangan" in Paru Village, West Sumatra
Tri TRI MARTIAL (Islamic University of North Sumatra)

Forest Management and Local People -- Illegal Logging, People’s Control and Sustainable Development, a Case Study at West Java, Indonesia
Kosuke MIZUNO (Center for Southeast Asian Studies, Kyoto University)

The Interaction of Local and External Influences in a Case of Deforestation in the Philippines
Michael SEIGEL (Nanzan University)

Changing Land Use in Local Communities and Forestry Policy in Laos
Tomoya MORI (Chuo University)

FRI-C.9 Revitalizing the Commons: New Commons and New Commoners for Recovering Environmental Resources

Calm 6

Chair: Margaret MCKEAN (Duke University)

Change and Convergence in Commons Scholarship in Japan and Abroad
Gaku MITSUMATA (University of Hyogo)
Margaret MCKEAN (Duke University)

School Forests in Japan: from Cash Cow to Environmental Education
Tarō TAKEMOTO (Forest Policy Laboratory, The University of Tokyo)

Urban Volunteers for Rural Forests: Expanding Commons in Japan
Shinji YAMAMOTO (Field Science Center, Faculty of Agriculture, Iwate University)

Forests for the Fish: watershed conservation by fishing cooperatives for both economic and environmental benefits
Norie TAMURA (Research Institute for Natural Capital Co, LTD)
Gaku MITSUMATA (University of Hyogo)

Discussant: Hiroe ISIHARA (Research Institute for Humanity and Nature, Japan, and Cambridge University, United Kingdom)

FRI-C.10 Networks, Trust, and Social Capital: Institutions to Solidify Collective Action

Onshirin 5

Chair: Leticia MERINO (Instituto de Investigaciones Sociales de la Universidad Nacional Autónoma de México)

Common Pool Resources and Disturbances in Social Capital: the Case of the Taos Valley Acequias
Steven Michael SMITH (University of Colorado Boulder)

Community Based Initiatives for Natural Resource Sustainability and Livelihood Security: Building Adaptive Management
Astrid MEILASARI-SUGIANA (Universitas Bakrie, Jakarta)

Social Capital and Collective Action for Community Forest Management in Cambodia
Ayako IDO (Nagoya University)

Variations of Resource Complex in Villagers’ Livelihoods: Cases in Northeast Thai Villages
Fumikazu UBUKATA (Okayama University)

15:00-15:30 Afternoon Coffee and Tea (Jiba 3, Onshirin 3, Calm 1)
### 15:30-17:00 Panel Session FRI-D

**FRI-D.1**


Chair: Anthony CHARLES (Saint Mary's University)

- Livelihoods and Income Diversity of the Maya Commons
  - Ana Minerva ARCE-IBARRA (El Colegio de la Frontera Sur, Chetumal)
  - Anthony CHARLES (Saint Mary's University)

- Life, Fish & Mangroves: Reflections on 15 years of Resource Governance in coastal Cambodia
  - Melissa MARSHKE (University of Ottawa)

- Role of Patron-Client System in Supporting Conservation
  - Arif SATRIA (Faculty of Human Ecology, Bogor Agricultural University)

Discussant: Meriem BOUAMRANE (Division of Ecological and Earth Sciences, UNESCO)

**FRI-D.2**

**Law and the Commons: Land Records, Litigation, Legislation**

Chair: Erling BERGE (Norwegian University of Life Sciences)

- Land Records as Weapons of the Commoners, Customs in Common, and Public Policy
  - Minoti CHAKRAVARTY-KAUL (Lady Shri Ram College)

- Citizen and Subaltern visa vis the Commons: The Social Becomings of Public Interest Litigation
  - Rita BRARA (Department of Sociology, University of Delhi)

- When Can Users be Owners? An Analysis into the Implementation of the Forest Rights Act, 2006, among the Sahariya Tribal Community in Central India
  - Tilottama SARKAR (Sakrakshan Trust)

- Changing Rights of Tribal Communities over Commons: Non-Timber Forest Products (NTFP) in Scheduled Areas of India
  - Venkatraman ANNAMALAI (Ministry of Rural Development, Hyderabad)

**FRI-D.3**

**POLICY FORUM: Sharing the experiences of agricultural policy reform: systems and institutions that improve the policy process**

Chair: Mikitaro SHOBAYASHI (Gakushuin Women’s College)

  - Mikitaro SHOBAYASHI (Gakushuin Women’s College)
  - Jesus ANTON (Agriculture and Trade Department, Organization for Economic Cooperation and Development)
  - Ruth MEINZEN-DICK (International Food Policy Research Institute)
  - Shingo KIMURA (Organization for Economic Cooperation and Development (OECD))

Discussant: Jesus ANTON (Agriculture and Trade Department, Organization for Economic Cooperation and Development)

- Ruth MEINZEN-DICK (International Food Policy Research Institute)
- Ian HODGE (Cambridge University)
- Shin’ichi SHOGENJI (Nagoya University)
- Shingo KIMURA (Organization for Economic Cooperation and Development (OECD))
- Masaki SAKAI (Ministry of Agriculture, Forestry, and Fisheries, Government of Japan)
15:30-17:00  Panel Session FRI-D

**FRI-D.4**  Small Scale Coastal Fisheries: Conditions Promoting Sustainable Use

Onshirin 6

Chair: Tomoya AKIMICHI (Research Institute for Humanity and Nature, Kyoto)

Co-Ownership of Property Rights of Commons: the Self-Governance of Zhang-Zi Island Fishery
- YuTzu LIN (National Chengchi University)

State-Society Relations in Natural Resources: A Case Study of Fishery Politics in Tonle Sap, Cambodia
- Dina THOL (The University of Tokyo)
- Jin SATO (The University of Tokyo)

Adaptive management and welfare enhancement of Kattudel fishery in Negombo Lagoon, Sri Lanka
- Shimpei IWASAKI (Research Institute for Humanity and Nature, Kyoto)

**FRI-D.5**  Institutional Arrangements for Fluid Commons: Towards a New Era of Water Management

Onshirin 4

Chair: Takahiro ENDO (Osaka Prefectural University)

An Inquiry into sustainability and institutional adaptation to drought: some implications from the Sanuki plain in Japan
- Kazuki KAGOHASHI (Institute for Social Ethics, Nanzan University)

The Kabu-ido system of rights to wells: innovations in Indigenous Institutions for Managing Groundwater
- Takahiro ENDO (Osaka Prefectural University)

Institutional Design, Public Participation, and Consequences for Watershed Governance
- Tomohiko OHNO (Hamann University)

Natural Sweetfish [ayu] Never Comes Back Naturally: Toward Sustainable Use of River Basins in Japan
- Mitsuo MATSUMOTO (Osaka University)

**FRI-D.6**  New theoretical and empirical approaches to commons research

Jiba 4

Chair: Raul PACHECO-VEGA (Centro de Investigacion y Docencia Economicas, AC (CIDE, AC) Region Centro)

Neoinstitutionalism, IAD and polycentric governance of the commons: toward a research agenda on water governance in Mexico
- Raul PACHECO-VEGA (Centro de Investigacion y Docencia Economicas, AC (CIDE, AC) Region Centro)

Linking multi-level governance to local common-pool resource theory using fuzzy set qualitative comparative analysis: Insights from twenty years of biodiversity conservation in Costa Rica
- Xavier BASURTO (Duke University)

An Empirical study on the grammar of institutions: are the group-made regulations implemented for the Semnan rangelands (in Iran) rules, norms, or strategies?
- Leili ABOLHASSANI (Department of Agricultural Economics, Ferdowsi University of Mashad)

Using the IAD Framework to study the evolution of institutions for littoral drift -- the long-shore transport of sand across jurisdictional boundaries
- Daniel WARE (Griffith University)

Discussant: Margaret MCKEAN (Duke University)
15:30-17:00 Panel Session FRI-D

FRI-D.7  Methods and approaches for analyzing the gender differences in access rights, usage, and management for forests and tree products

Calm 14

Chair : Yen MAI (Center for International Forestry Research)

Mainstreaming gender into climate change adaptation and mitigation projects in the Congo Basin
Anne-Marie TIANI (Center for International Forestry Research)
Youssoufa BELE (Center for International Forestry Research)
Charlotte PAVAGEAU (Center for International Forestry Research)
Denis SONWA (Center for International Forestry Research)

Using the PEN dataset to investigate myths and realities about men, women, and forest use across three continents
Terry SUNDERLAND (Center for International Forestry Research)
Ramadhani ACHDIAWAN (Center for International Forestry Research)
Arid ANGELSEN (Center for International Forestry Research)
Ronnie BABIGUMIRA (Center for International Forestry Research)
Amy ICKOWITZ (Center for International Forestry Research)
Fiona PAUMGARTEN (Center for International Forestry Research)
Victoria REYES-GARCIA (Center for International Forestry Research)
Gerald SHIVELY (Center for International Forestry Research)

Methods for analysing gender roles in forest products chains in the Congo Basin
Verina INGRAM (Center for International Forestry Research)

Gender in forestry research in Indonesia: practical lessons on diversity and complexities
Elizabeth Linda YULIANI (Center for International Forestry Research)
Hasantoha ADNAN (Center for International Forestry Research)

FRI-D.8  Book Launches -- (1) Integrated Natural Resource Management in Southeast Asia: Lessons Learned from the Field; (2) Governance of Commons and Livelihood Security

Calm 6

Chair : Yon YONARIZA (Andalas University)

Book Launch -- Integrated Natural Resource Management in Southeast Asia: Lessons Learned from the Field
Yon YONARIZA (Andalas University)
Ganesh SHIVAKOTI (Asian Institute of Technology, Thailand)
Rudi FEBRIAMANSYAH (Andalas University)
Dietrick SCHMIDT-VOGT (Kunming Institute of Botany)

Governance of Commons and Livelihood Security
Himadri SINHA (Xavire Institute of Social Science, Jharknaud)

Discussant : David HULSE (Ford Foundation, Jakarta)
## 15:30-17:00 Panel Session FRI-D

### FRI-D.9 Pro-poor Resource Governance under Changing Climates

**Jiba 10**

Chair: Tobias HALLER (Institute of Social Anthropology, University of Bern)

**An Institutionalist Approach to Understanding Pro-poor Adaptation**
- Jes WEIGELT (Institute for Advanced Sustainability Studies (IASS), Potsdam)
- Tobias HALLER (Institute of Social Anthropology, University of Bern)

**The tragedy of the privates: minifundización and erosion of livelihoods in Andean highland communities in Ecuador**
- Matheus Alves ZANELLA (Institute for Advanced Sustainability Studies (IASS), Potsdam)

**Settling Conflicts about Created Commons: Institutional changes in land management in pastoral zones of Burkina Faso**
- Judith ROENDAHIL (Institute for Advanced Sustainability Studies (IASS), Potsdam)

**The roles of commons in a phase radical societal change -- Insights from the governance of commons of land and natural resources in Bolivia**
- Stephan RIST (Centre for Development and Environment (CDE), University of Bern)
- Patrick BOTTAZZI (Institute of Geography and Sustainability, University of Lausanne, Switzerland)

**Making pro-poor common land management work: Learning from a civil society organization in rural Rajasthan, India**
- Franziska LINZ (Institute for Advanced Sustainability Studies)
- Charlotte BECKH (Institute for Advanced Sustainability Studies)

### FRI-D.10 Commons and Social Capital for Water Security

**Onshirin 5**

Chair: Tsugihiro WATANABE (Research Institute for Humanity and Nature)

**Rethinking Integrated Water Resources Management: Reframing IWRM for Sustainable Futures**
- Hironori HAMASAKI (Research Institute for Humanity and Nature)
- Hisa’aki KATO (Research Institute for Humanity and Nature)
- Satoko WATANABE (Research Institute for Humanity and Nature)
- Chie IMAGAWA (Research Institute for Humanity and Nature)

**Attitude of Local Residents toward Nature Restoration at Nishinoko Lagoon on Lake Biwa, Japan: How Can Local Governance Work?**
- Takuya TAKAHASHI (University of Shiga Prefecture)
- Ikujiro WAKAI (Osaka Sangyo University)
- Ken’ichi TAKESHITA (Kansai University)

**Policies, governance and management for groundwater resources: Cases in urban areas of Asian cities**
- Keishiro HARAI (Center for Environmental Innovation Design, Osaka University)

Discussant: Yuki KONAGAYA (National Museum of Ethnology)

Ken’ichi NAKAGAMI (Ritsumeikan University)