

Wednesday Morning - Concurrent Sessions 10:30-12:00

10:30 - 12:00

Salon 2	W.1	Strategies for Governing the Commons: Exploring the Strengths and Limitations of Collaboration as a Water Governance Strategy - Rob de Loe	
		<i>de Loe, Rob</i>	Collaboration as a governance strategy: introduction to the special session
		<i>Brisbois, Marie-Claire</i>	Collaborating with power: Resource industry participation in multi-actor water governance
		<i>Melnychuk, Natalya</i>	Understanding legitimacy in multi-actor collaborative governance for water
		<i>Morris, Michelle</i>	Exploring the role of collaboration in the Mackenzie River Basin, Canada
		<i>Panesar, Jespal</i>	Multi-actor approaches for knowledge sharing and governance of transboundary water resources
		Discussion	

10:30-12:00

Salon 9	W.2	Framing Commons as a Process: Exploring the Concepts of Commonisation and Decommonisation for Theory, Policy and Practice - 1 - Fikret Berkes	
		<i>Nayak, Prateep</i>	Introduction to the double Panel: Understanding the commons through commonisation and decommonisation
		<i>Lopez-Maldonado, Yolanda</i>	Groundwater common pool resources in Yucatan, Mexico: Understanding commonisation processes - and anticipating decommonisation - in the cenotes of the Mayan area
		<i>Galappaththi, Eranga</i>	Is Commonisation possible in shrimp aquaculture? A case from northwestern Sri Lanka
		<i>Khan, Shah</i>	Decommonization and Recommonization of Mountain Commons and their Impact on Livelihood Security
		<i>Berkes, Fikret</i>	Reflections from the Chair and Discussion

10:30 - 12:00

Salon 14	W.3	Linking Local to Global Perspectives in Strengthening the Commons - Maureen Reed	
		<i>Basu, Soutrik</i>	Understanding the efforts of Generation Challenge Programme (GCP) from commons perspective
		<i>De Caro, Daniel</i>	Investigating the Psychological and Contextual Determinants of Effective Community-Based Participatory Decision Making
		<i>Djanibekov, Nodir</i>	Explaining project failure paradox in post-Soviet Central Asia: The case of Uzbekistan
		<i>Gambon, Helen</i>	Fixation or dynamics? Governance of an indigenous territory and Biosphere reserve in the Bolivian Amazon
		<i>Reed, Maureen</i>	Raising orphans: The experience of UNESCO biosphere reserves in Canada

10:30 - 12:00

Salon 6	W.4	Resistance and Collective Action Around Grabbing the Commons - Jampel Dell'Angelo	
		<i>Dell'Angelo, Jampel</i>	Grabbing the Commons
		<i>Brinkhurst, Marena</i>	Practical Innovations for Protecting Common Lands and Resources: Grassroots Legal Empowerment Strategies

<i>MacKinnon, Anne</i>	Conceptual conflict and interference with community management: Impact of imposing land-law concepts on water management
<i>Farhad, Sherman et al.</i>	Commons governance and long-term provision of ecosystem services: The case of multi-level water governance in rice producing region, Isla Mayor, Andalusia, Spain
Discussion	

10:30 - 12:00	Salon 17	W.5	A Social-Ecological Systems Approach to the Analysis of Governance of Natural Common Pool Resources Raul Pacheco-Vega
		<i>Nunan, Fiona</i>	Analysing multi-level governance of mangrove forests in East Africa: an application of Ostrom's SES framework
		<i>Kumazawa, Terukazu</i>	Collaborative approach to assessment of social-ecological systems based on ontology engineering
		<i>Janssen, Marco</i>	Using agent-based models to compare behavioral theories on experimental data of irrigation games
		<i>Pacheco-Vega, Raul</i>	Applying the Social Ecological Systems framework (SES) to a Mexican water governance case: Bringing the politics back in
		Facilitated Discussion	

10:30 - 12:00	Salon 15	W.6	Distenglanging Community-Based and Community Driven Research and Action on Water Governance - Thomas Dyck
		<i>Dyck, Thomas</i>	Addressing water concerns in southern Ontario: Insights from local First Nation contexts
		<i>Lapologang, Magole et al.</i>	From community Based to Community Driven: Creating an empowering environment for communities in management of the commons in the Okavango Delta Botswana
		<i>Amblard, Laurence</i>	Collective action as a tool for water quality management in agriculture: the case of cooperative agreements in French drinking water catchments
		<i>Bepple, Jonathan</i>	Reducing demand of water in Canada's thirstiest city through agent based modelling

10:30 - 12:00	Salon 16	W.7	Governing Risk and Vulnerabilities in Small-Scale Fisheries Commons - Anthony Charles
		<i>Fauzi, Akhmad</i>	Risk Sharing and network economics of coastal communities: A case study of the small scale fishing communities in the Java and Bali, Indonesia
		<i>Ho Thi Thanh Ngaa, Helen Rossa</i>	Power and Power in Use: Fisheries Co-management in Tam Giang Lagoon, Vietnam
		<i>Dias, Ana Carolina</i>	Participatory monitoring of small-scale fisheries in Brazil and the Southern Cone: a literature review
		<i>Amaral, Ellen et al.</i>	The governance of co-management of Arapaima (<i>Arapaima sp.</i>) in the Middle Solimões, Amazonas, Brazil
		Discussion	

10:30 - 12:00	Salon 10	W.8	Monitoring and Stewardship in a Cultural Landscape - Connecting Traditional Knowledge and Social Action - Melody Lepine
		<i>Lisa King</i>	Impacts of Oil Sands Mining on a Traditional Way of Life
		<i>Melody Lepine</i>	The Environmental Impacts of Resource Development and the Opportunities for Protecting the Land
		<i>Kevin Courtereille</i>	Perspectives on Monitoring the Athabasca River with Mikisew Cree Youth - CBM Program
		<i>Jodi Stonehouse</i>	Womyn, Water, and Well-Being: Looking at Indigenous Knowledge Downstream from Alberta's Tar-sands

	Discussion
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10:30 - 12:00

Salon 19	W.9	Combining Documentary Archives with Survey Data to Advance from Case Studies to Large-N Analysis of the Japanese Commons - Margaret McKean	
		<i>Hayasaka, Keizō</i>	The Kotsunagi Archive: from legal disputes on the commons to large-N analysis of Commons in Iwate Prefecture in the Twentieth Century
		<i>Hayashi, Masahide</i>	Causes and Consequences of Resource Shortage on the Japanese Commons in the early 20th century
		<i>Kira, Yōsuke</i>	The Impact of Changes in Forest Ownership in Japan: Cross-Sectional Time-Series Analysis of the Prefectures in the Late 19th and Early 20th Centuries
		<i>Kanazawa, Yūsuke</i>	Managing Commons during Rapid Economic Growth: A large-N analysis
		<i>McKean, Margaret</i>	Discussion

10:30 - 12:00

Salon 20	W.10	Accessing the Commons: Collaborative Care and governance in the Face of Privatization and Power - Mehana Vaughn	
		<i>Vaughan, Mehana</i>	Sustaining Communities through Small-Scale Inshore Fishery Catch and Sharing Networks
		<i>Diver, Sibyl</i>	Building legitimacy for Indigenous resource management institutions in the Pacific Northwest - Negotiating knowledge, shifting access: Building legitimacy for Indigenous institutions resource management institutions in the Pacific Northwest
		<i>Baker-Médard, Mez</i>	Gendering the Commons: the politics of marine protected areas and fisheries access
		<i>Lukacs, Heather</i>	Beyond formal groups: Neighbouring acts and watershed protection in Appalachia
		<i>Montenegro, Maria</i>	Land use and gender implications of labor allocation in the Upper Mantaro Watershed, Peru

10:30 - 12:00

Salon 18	W.11	Cultural Evolution and the Commons: A Cultural Evolutionary Approach to Commons Management - 1 - Tim Waring	
		<i>Waring, Tim</i>	A multilevel evolutionary framework for sustainability analysis
		<i>Niles, Meredith</i>	Achieving Climate Cooperation Among Farmers
		<i>Levy, Michael</i>	Network structure and cooperation in agricultural commons management
		<i>Hillis, Vicken</i>	A cultural evolutionary model of crop disease prevention in a networked social-agroecological system
		Facilitated Discussion	

10:30 - 12:00

Salon 13	W.12	The New Polycentricity? Conceptual basis and operationalization for the study of the Commons - Xavier Basurto	
		<i>Basurto, Xavier</i>	Introduction to the Panel: The New Polycentricity
		<i>Gruby, Rebecca</i>	Understanding polycentricity in practice: (How) does it work?
		<i>Marshall, Graham</i>	Polycentricity and adaptive governance

Zarychta, Allan and Andersson, Krister	Local forest governance in Guatemala: Can Polycentric Governance Theory Explain Variation in Outcomes?
Clark, Elizabeth	Enclosing the oceans: Values embedded in fisheries research, practice and policy
Schlager, Edella	Discussion

10:30 - 12:00

Salon 12	W.13	Research for Academia, for, or with Practice? Workshop on the Use, Usability and Usefulness of Scientific Results in Practical Contexts - Kinga Boennig
		This participatory workshop will deal with the questions: How far are our results on diverse topics of CPRs and social-ecological systems used in practice? To which extent are they useful and usable for diverse groups of practitioners, including e.g., members of local communities or policy-makers? To which extent are we as practitioners interested in the use of scientific results, and what have been our experiences with this so far?
		<i>Facilitated Discussion</i>

10:30 - 12:00

Salon 11	W.14	Multi-Level Institutions for Social-Ecological Resilience - John Powell
		Potts, Jason Economics of an Innovation Commons
		Sullivan, Abigail The impact of institutional heterogeneity: A mixed methods approach to understanding management outcomes of the invasive mile-a-minute weed (<i>Mikania micrantha</i>) in Chitwan, Nepal
		Rommel, Jens Modeling Evolutionary Institutional Change in Social-ecological Systems: A Research Heuristic
		Powell, John Resilience in marine resource governance - a deeper look at institutional change
		Hoefnagel, Ellen Problems and Opportunities of Informational Governance in the European Seas.

Wednesday Early Afternoon - Concurrent Sessions 13:30-15:00

13:30 - 15:00

Salon 2	W.15	Embedded in Landscapes: Toward a Research Agenda on Landscape Level Governance - Leslie King
		King, Leslie Institutional Interplay and Institutional Diagnostics for Landscape Level Governance
		Kisingo, Alex W. Landscape level governance in the GSET: Lessons learnt and way forward
		Robinson, Lance. W. Institutional Linkages for Landscape Level Governance: The Case of Mt. Marsabit, Kenya
		Weber, Marian Cumulative Effects Perspectives on Environmental Change in Alberta - Connecting Theory and Governance
		Discussion

13:30-15:00

Salon 13	W.16	Polycentricity in commons governance: Theories, case studies and future challenges - Raul Pacheco-Vega
		Pacheco-Vega, Raul Evaluating polycentricity in water governance? Towards a life cycle measuring framework

<i>Thiel, Andreas</i>	Embedding and distinguishing polycentricity in research on environmental governance: a review and outlook
<i>Schlager, Edella</i>	Polycentricity and the Design Principles: Explaining Regional Scale CPR Self-Governing Arrangements
<i>Garrick, Dustin</i>	The Transaction Costs of Polycentric Water Governance in the Murray-Darling Basin: Tradeoffs and Trends in Sustainable Water Allocation Reform from 2000-2015
Discussion	

13:30-15:00

Salon 14	W.17	Resistance and Collective Action Around Grabbing the Commons - Makere Harawira-Stewart	
		<i>Neef, Andreas</i>	Resistance to Land Grabs and Displacement in Cambodia: The Limits of Collective Action
		<i>Pia, Andrea</i>	For the Common Good: Water Users' Associations, Collective Action and the problem of "success" for Non-State Water Provisions
		<i>Harawira-Stewart, Makere</i>	Negotiating the tricky terrain of Indigenous rights, markets and the notion of the Commons, or, If water belongs to no one, why are we sending shiploads to China?
		<i>Behn, Caleb</i>	Keepers of the Water - British Columbia
		<i>Bakker, Karen</i>	Commons versus Commodities: Indigenous rights, water, and resource development in North-Eastern BC
		Discussion	

13:30-15:00

Salon 9	W.18	Framing Commons as a Process: Exploring the Concepts of Commonisation and Decommonisation for Theory, Policy and Practice - 2 - Derek Armitage	
		<i>Awan, Sajida</i>	Environmental change and property rights: The case of Nurri and Jubhoo lagoons in Indus delta, Pakistan
		<i>Ramalu Ragavan, Hari</i>	Community-Based Marine Biodiversity Resources Management in Malaysia
		<i>Euler, Johannes</i>	The social practice of commoning as core determinant for commons
		<i>Chan, Cheryl; Khan, Fatima Noor; Awan, Sajida</i>	A Dialogue with Commons Scholars on the Past, Present and Future of the Commons
		<i>Armitage, Derek</i>	Reflections from the Chair and Discussion

13:30-15:00

Salon 6	W.19	Understanding the Robustness to Disturbance in Irrigation Social-Ecological Systems - Sergio Villamayor-Tomas	
		<i>Villamayor-Tomas, Sergio</i>	Understanding individual and collective responses to droughts in Mexican irrigation systems
		<i>Anderies, John Marty</i>	Small-scale irrigation and climate change: A Coupled Infrastructure Systems View Persistence and Change in Social-Ecological Systems: Perspectives from Studies of Small-Scale Irrigation through the Lens of Coupled Infrastructure System
		<i>Wang, Yahua</i>	Why water user associations underperformance in China: Analysis in SES framework
		<i>Dell'Angelo, Jampel</i>	'Who Decides?' Investigating Decision-making Dynamics of Community Water Projects on Mount Kenya

<i>Mapedza, Everisto</i>	Gendered complex outcomes in the Kandeu Irrigation scheme's sustainable intensification option in Malawi
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13:30-15:00

Salon 17	W.20	Applying a Commons Approach to Urban Social-Ecological Systems - Debra Davidson	
		<i>Edwards, Victoria</i>	Re-birthing Local Commons: the challenge of managing peri-urban commons in the twenty first century
		<i>Takamura, Gakuto</i>	Polycentralization of Urban Governance and the Role of Law to Open Community Boundaries: Legal Geography of Business Improvement Districts in San Francisco and New York City
		<i>Umetsu, Chieko</i>	Transformations of the Property Ward System in Modern Japan and Nagasaki
		<i>Tanyanyiwa, Vincent</i>	Understanding the Contribution of Parks and Green Spaces to Harare's Residents Wellbeing
		<i>Pubjabi, Bharat</i>	Institutional Design and the Geography of Rural-Urban Water Conflict in the Mumbai Region, India

13:30-15:00

Salon 15	W.21	Ethno-Ecology-Local and Traditional Knowledge in Understanding Ecosystem Change and Development - Renato Silvano	
		<i>Silvano, Renato</i>	Fishers' knowledge can improve spatial planning for conservation and fisheries management in a tropical floodplain
		<i>Deepananda, K.H.M. Ashoka</i>	Role of Indigenous Knowledge in Community Based Coastal Fishery Management: Case of Beach-seine & "Stilt-fishing" in Southern Sri Lanka
		<i>Mertens, Frédéric</i>	The role of social networks in mediating fish resources availability, access, utilization and stability in a community from the Brazilian Amazon
		<i>Whitehead, Matthew</i>	Many generations of change - Traditional Knowledge of the Effects of Development in Northern Alberta

13:30-15:00

Salon 16	W.22	Marine protected areas as community-building spaces - Xavier Basurto	
		<i>Gray, Noella</i>	Seeing the High Seas: Legibility and Governance of the Ocean Commons
		<i>Basurto, Xavier</i>	Uncovering 'Spiteful Cooperators' through combining experiments, a large-n survey, and interviews to analyze the impact of MPAs on fishing communities
		<i>Schlueter, Achim</i>	Turtle eggs harvesting and the incentives of an NGO: an experiment with Nicaraguan fishermen
		<i>Gabriela Weber de Morais</i>	From government to governance: a case of Marine Protected Areas in Costa Rica
		<i>Charles, Anthony</i>	Governance of Marine Fisheries and Biodiversity Conservation

13:30-15:00

Salon 10	W.23	Obstacles and Opportunities for Watershed Co-Management - Karen Bakker	
		<i>Marshall, Graham</i>	Path Dependence and the Economics of Recovering Environmental Water for Resilience in Australia's Murray-Darling Basin
		<i>Baines, Paul</i>	Raising a Great Lakes Commons
		<i>Sinha, Himadri</i>	Revisiting the Participatory Watershed Development Programmes of India
		<i>Hamilton, Matthew</i>	Policy networks and climate change adaptation in the Lake Victoria Basin: a multilevel perspective

	<i>Lukacs, Heather</i>	Vulnerability and Protection of Drinking Water Sources: A Case Study of the January 2014 Chemical Spill in West Virginia

13:30-15:00

Salon 19	W.24	Reviving Rivers: Knowledge, Practice, and Commons Management in Japanese River Catchments - Takeshi Ito	
		<i>Watanabe, Takehiro</i>	River Catchment as Commons: Law, Civil Engineering, and Ecology in Contemporary Japan
		<i>Hamada, Shingo</i>	Commons or Boundary?: Negotiating Knowledge and Oysters through Watershed Restoration in Eastern Hokkaido, Japan
		<i>Harada, Sadao</i>	The collective river management based on water transportation culture - A case of Hozugawa River
		<i>Ito, Takeshi</i>	Reviving Rivers: Knowledge, Practice, and Commons Management in Japanese River Catchments
		<i>Takahashi, Takuya</i>	How did policy intervention work out for forest commons in Japan? An analysis of time-series, prefectural data

13:30-15:00

Salon 20	W. 25	Obstacles and Opportunities for Watershed Co-Management - Anne McKinnon	
		<i>MacKinnon, Anne</i>	Obstacles and routes to river basin co-management: The case of two tribes and a state government, U.S.
		<i>Wilson, Nicole et al.</i>	Community responses in a changing hydrosocial system: Community-Based Monitoring among Indigenous nations of the Yukon River Basin
		<i>Aarnoudse, Eefje</i>	Conjunctive water management in North West China: A promising strategy to deal with uncertainty
		<i>Miller, Brett; Jones, Kelly; James, Erin</i>	Assessing the Symbolic and Economic Value of Stream-Flow in the Salmon River Basin, Idaho
		Discussion	

13:30-15:00

Salon 18	W.26	Cultural Evolution & the Commons: Empirical Applications of a Multi-Level Evolutionary Framework - 2 Vicken Hills	
		<i>Brooks, Jeremy</i>	Examining environmental conservation and sustainable development in Bhutan through the lens of cultural multilevel selection theory
		<i>Frost, Karl</i>	Cultural evolution theory applied to questions of sustainability in the interlocking politics of resource extraction industries, First Nations sovereignty, food security, and environmental activism in BC, Canada
		<i>Arnold, Gwen</i>	A cultural evolutionary explanation for the use of compulsory pooling in unconventional hydrocarbon production
		<i>Garibaldi, Ann and Dyck, Thomas</i>	Understanding the social and cultural dimensions of cumulative land impacts in a northern Alberta Aboriginal community
		Discussion	

13:30-15:00

Salon 11	W.27	Meta Data, Games and Experiments for Strengthening Collective Action in the Commons - Ruth Meinzen-Dick	
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<i>Meinzen-Dick, Ruth</i>	Can Experimental Games Strengthen Collective Groundwater Management? Learning from Field Experiments in India
<i>Sarker, Ashutosh</i>	Common-Pool Resources Management in Experimental Economics and Neuroscience Perspectives
<i>Mohammed, Abrar</i>	A Modified Actor-Power-Accountability Framework (MAPAF) for analyzing commons governance: Case study from Ethiopia
<i>Andersson, Krister</i>	Linking the short- and long-term in common pool forest management using role-playing game
<i>Wright, Glenn</i>	Trust, and Common Pool Resource Governance: Some Experimental and Observational Evidence

13:30-15:00

Salon 12	W.28	Bridging Practice, Research and Advocacy for Communities and Forests in Canada - Peggy Smith								
		<p>A special panel, including academics and practitioners, will address the bridging of practice, research and advocacy among academics and civil society to advance community forestry. An additional focus will be the new national network - Community Forests Canada - that emerged in 2013 as a means to support existing and proposed community forestry initiatives, policy engagement and research.</p>								
		<table border="1"> <tr> <td>Smith, Margaret (Peggy)</td> <td>Public Policies to Enable Community Forests in Canada</td> </tr> <tr> <td>Bullock, Ryan</td> <td>Towards a new national network for community forestry in Canada</td> </tr> <tr> <td>Palmer, Lynn</td> <td>Practice and Advocacy for Community Forestry in Canada</td> </tr> <tr> <td colspan="2">Discussion</td> </tr> </table>	Smith, Margaret (Peggy)	Public Policies to Enable Community Forests in Canada	Bullock, Ryan	Towards a new national network for community forestry in Canada	Palmer, Lynn	Practice and Advocacy for Community Forestry in Canada	Discussion	
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