

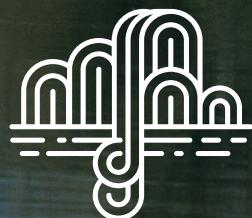
**JOINT  
CONFERENCE ON  
FORESTS AND WATER 2018**

**05 – 08.11.2018**



**Universidad Austral de Chile  
— Valdivia —**

**PROGRAM**



**II Congreso  
Latinoamericano Bosques y Agua**

**V IUFRO  
Conference on Forests and Water  
in a Changing Environment**

# Promoting the integration between forest ecosystems, water and society

## Objectives

1. Promote science in support of sustainable co-development of forestry (including native forests and plantations), water resources, and aquatic ecosystems in a changing environment.
2. Explore the opportunities and challenges of using the United Nations Agenda 2030 to guide this co-development.
3. Bridge science with society and decision making on forests and water issues in a Latin American context by promoting dialogue.

## ACREDITATION

**SUNDAY 04** Aula Magna 16:00 – 19:00 hrs.

**MONDAY 05** Aula Magna 8:30 – 8:45 hrs.

# Keynote speakers



## Irena Creed

University of Western Ontario, Canadá

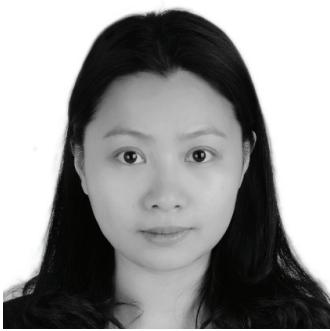
Irena Creed is Executive Director of the School of Environment & Sustainability at the University of Saskatchewan and an ecosystem scientist who studies the impacts of global change on ecosystem structure, function and services.



## Juan Pablo Boisier

Universidad de Chile (CR)<sup>2</sup>, Chile

Juan Pablo Boisier is a physicist, magister in meteorology and climatology at the University of Chile, PhD in climatic sciences at l'École Polytechnique, France. He is a full time researcher at the Climate and Resilience Science Center (CR)2. His research area refers to both past and future climate impacts driven by anthropogenic forces on a global scale, with a focus on South America.



## Mingfang Zhang

University of Electronic Science and Technology of China

Mingfang Zhang is Head of Department of Environmental Science and Engineering at University of Electronic Science and Technology of China. She studies cumulative effects of forest change on hydrology with a focus on large watersheds in the B.C. Interior of Canada and across various biogeoclimatic zones in China.



## Silvio Ferraz

University of São Paulo, Brazil

Silvio Ferraz is Associate Professor at the Department of Forestry Sciences of the Faculty of Agriculture "Luiz de Queiroz" (ESALQ / USP). He is coordinator of the Watershed Monitoring and Modeling Program, with a network of experimental microwatersheds in Brazil and Uruguay. His line of research includes conservation of water resources and aquatic ecosystems in native and non-native forests in the tropical region.



## Esteban Jobbagy

Universidad Nacional de San Luis, Argentina  
(Grupo de Estudios Ambientales)

Esteban Jobbagy a principal research scientist at Argentina's National Scientific and Technical Research Council (CONICET) in San Luis, Argentina. He studies links between vegetation change and hydrology, the effects of deforestation and afforestation on water yield, and groundwater dynamics and salinity in southern South America.

# DAY 1 • Monday 05

## Legend

### Conference Themes

- T1** Forests and water: the role of arts, humanities, and communication
- T2** The 2030 Agenda framework for forests and waters
- T3** Forest ecosystems, water and climate change adaptation
- T4** Forest certification, government policy and water resources
- T5** Ecosystem service tradeoffs involving water from native forests and plantations
- T6** Aquatic and Riparian Biodiversity–forest ecosystem-stream connections

- T7** Social aspects of watershed management and monitoring
- T8** Agroforestry and water
- T9** Forests in the food-water-energy nexus
- T10** Modeling and decision support systems linking forest hydrology, management, and policy
- T11** The Forest-Water Network: planning tools
- BT** Blue Targeting

### Conference

- |  |                            |  |                 |
|--|----------------------------|--|-----------------|
|  | Opening and closing events |  | Coffee break    |
|  | Keynote Sessions           |  | Lunch           |
|  | Ignite Presentation        |  | Aula Magna room |
|  | Poster Session             |  | Nahmias room    |
|  | Discussions                |  | Moderator       |

## Monday 05

Aula Magna UACh													
8:45	9:15		Welcome Local Authorities / Choral Presentation										
9:15	9:25		Welcome Organizing Committee Kevin Bishop - Christian Little										
9:25	9:55		Irena Creed · Rescaling the Forest-Water Discourse to meet UN Global Goals										
9:55	10:10	CHANGE FROM PLENARY SESSION TO PARALLEL SESSIONS											
10:10	10:30		Coffee Break										
Nahmías 2      Nahmías 3      Nahmías 4													
10:30	10:45				<b>T2:910 · DANIEL NEARY</b> Climate change, drought, and forest fire interactions - setting the stage for aggravated flooding, water yield decline, and water supply deterioration								
10:45	11:00		<b>T11:1189 · FELIPE LABRA</b> Delimitación de zonas de protección de cursos de agua usando herramientas de modelación hidrológica										
11:00	11:15		<b>T11:1237 · MAURICIO GALLEGUILLOS</b> Assessment of water yield under global change scenarios in a Mediterranean rainfed watershed dominated by exotic tree plantations										
11:15	11:30		<b>T2:961 · NATALIA KOZII</b> What is the role that trees play in regulating water losses from boreal forested ecosystems?										
11:30	11:45		<b>T2:990 · RAFAEL RUBILAR</b> Opportunities for improving water sustainability of intensively managed Eucalyptus plantations										
11:45	12:00		<b>T2:1017 · ANDRÉS IROUMÉ</b> Decline in catchment runoff with increasing forest age as a function of latitudinal climate differences in Chile and implications for an analogue of climate change impact										
12:00	12:15		<b>T2:1026 · NADEEM SHAH</b> Significant changes in water quality caused by peatland deforestation and extreme storm events in Scotland										
			<b>T2:1020 · O. STRIBLING STUBER</b> Water use during and after severe drought in a pine-dominated forest: Comparing functional group differences in evapotranspiration										
			<b>T2:1095 · ENRIQUE VILLALOBOS VOLPI</b> Retención de agua en obras de conservación de suelo en zonas áridas y semáridas										
			<b>T4:1221 · CAIO COSTA</b> Implementing a hydrological monitoring program at Suzano S.A. pulp and paper company										
			<b>T4:1232 · LARS HÖGBOM</b> Payment for Ecosystem Services Forest - Water										
			<b>T4:1304 · CAMILA ALVAREZ</b> The contrasting effects of native forest and forest plantation on catchment water yield										

# DAY 1 • Monday 05

## Monday 05

		Nahmías 2	Nahmías 3	Nahmías 4
		M Antonio Lara	M Julia Jones	M Harry Nelson
		Ignite Presentations		
12:20	12:25	<b>IGT2:1215 · ANDRÉS IROUMÉ</b> Analysis of flow variability along a plantation rotation in an experimental catchment in Southern Chile	<b>IGT3:1000 · BRENDA BRAILLIE</b> Demonstrating the connection between forests and water values: A review	<b>IGT9:986 · PAULA MELI</b> Changes in four hydrological processes under forest alteration and loss
12:27	12:31	<b>IGT2:1044 · HANG XU</b> Regulations of Cloudiness on Carbon, Water and Energy Exchanges between a Riparian Poplar Plantation and Atmosphere	<b>IGT3:1008 · JAMES BATHURST</b> Assessment of water yield under global change scenarios in a Mediterranean rainfed watershed dominated by exotic tree plantations	<b>IGT9:1035 · MARIANE CHITOLINA</b> A multi-instrumented watershed to estimate the water balance at the Mantiqueira mountains in Extrema, MG/Brasil
12:33	12:38	<b>IGT2:1092 · VACLAV DAVID</b> The influence of forests on the runoff from small to medium catchments	<b>IGT3:1046 · DON WHITE</b> Field evidence for impact of forest cover and forest management practice on flood peaks	<b>IGT9:1100 · ZONGSHAN LI</b> Exploring the effects of the "Grain for Green" program on the differences in soil water in the semi-arid Loess Plateau of China
12:40	12:45	<b>IGT2: 1148 · ROCÍO URRUTIA JALABERT</b> Assessing the vulnerability of the second longest-lived tree species to a drier climate	<b>IGT4:972 · MATHEUS OGASAWARA</b> Effects of forest cover on suspended sediment export in catchments	<b>IGT9: 1174 · KELLY TONELLO</b> Analysis Of Hydrological And Structural Indicators On Forest Restoration
13:00	14:30	 Lunch		
		M Kevin Bishop	M Christian Little	M Julia Jones
14:30	14:45	<b>T2:1030 · ADAM WEI</b> Thinning can mediate the negatively hydrological effects of drought: insight from a young lodgepole pine forest, British Columbia, Canada	<b>T3:935 · NICHOLAS CLARKE</b> Forestry intensification as climate mitigation: how is surface water safeguarded?	<b>T9:1366 · ANTONIO LARA</b> Progress and Challenges of long-term studies on small watersheds under forest restoration in the Valdivian Rainforest Region of Chile
14:45	15:00	<b>T2:1041 · ZUOSINAN CHEN</b> Environmental controls on nocturnal sap flow in Pinus tabuliformis and Acer truncatum forest under different stand ages in northern China	<b>T3:970 · VICTOR VARGAS</b> Buenas prácticas de manejo en la gestión forestal de plantaciones forestales en Chile: una evaluación para cuencas proveedoras de agua en la región de Biobío.	<b>T4:963 · LULU ZHANG</b> Quantifying ecosystem service tradeoffs resulting from dryland plantation forests for water and food security
15:00	15:15	<b>T2:1043 · JUAN A. BLANCO</b> Linkages between large-scale circulation patterns and long-term leaf litter dynamics of Scots pine and European beech mixtures in the Pyrenees	<b>T3:1069 · DAVID SCOTT</b> Managing Timber Plantations for Sustained Yields of Clean Water	<b>T4:981 · TATENDA MAPETO</b> Closing the forest hydrology loop: A case study of surface water and groundwater interaction within a South African Pine plantation
15:15	15:30	<b>T2:1045 · ANTONIO DEL CAMPO</b> ET partitioning in a semiarid coppice forest following scrub clearing and thinning	<b>T3:1236 · NATHALIA GRANATO LOURES</b> Compulsory and voluntary mechanisms and water management in plantations	<b>T2:1076 · ZHIQIANG ZHANG</b> Streamflow response to the climate change and human activities: from watershed studies to global estimation
15:30	15:45	<b>T2:1051 · MICHAEL CRAIG</b> Water and the conservation of wide-ranging Forest Red-tailed Black-Cockatoos in a drying climate	<b>T3:1159 · ASTRID OPPIGER</b> El Nexo entre Ciencia, Política y Gobernanza en el caso de Escasez de Agua en Plantaciones Forestales en Chile	<b>T2:1168 · ALEXANDER ONUCHIN</b> Assessment of the hydrological role of forests in different climatic conditions
15:45	16:00	<b>T2:1056 · TOMASZ OKRUSZKO</b> Can we assess fate of forested wetlands under future climate? Case study from Central Europe	<b>T3:1122 · LENNART HENRIKSON</b> Blue Targeting: A simple tool for planning of best management practice (BMP) for forestry along small streams	<b>T8:955 · CONSTANZA BECERRA-RODAS</b> Bosques nativos ribereños y su rol funcional sobre la regulación de la cantidad y calidad de materia orgánica disuelta en cuencas agroforestales del centro-sur de Chile
16:00	16:30	 Nahmías		
		Poster Session - Welcome Cocktail		

# DAY 2 • Tuesday 06

## Legend

### Conference Themes

- T1** Forests and water: the role of arts, humanities, and communication
- T2** The 2030 Agenda framework for forests and waters
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- T7** Social aspects of watershed management and monitoring
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- T11** The Forest-Water Network: planning tools
- BT** Blue Targeting

### Conference

- |  |                            |  |                 |
|--|----------------------------|--|-----------------|
|  | Opening and closing events |  | Coffee break    |
|  | Keynote Sessions           |  | Lunch           |
|  | Ignite Presentation        |  | Aula Magna room |
|  | Poster Session             |  | Nahmias room    |
|  | Discussions                |  |                 |
|  | Moderator                  |  |                 |

## Tuesday 06

		Aula Magna UACh	
8:45	9:15		M Julia Jones
8:45	9:15		Juan Pablo Biosier · Anthropogenic drying and vegetation changes in central-southern Chile
9:15	9:30	..... CHANGE FROM PLENARY SESSION TO PARALLEL SESSIONS .....	
Nahmías 2		Nahmías 3	Nahmías 4
	M Linnea Jagrud		M Julia Jones
Blue Targeting		T7:872 · CLARA MARÍA MINAVERRY	
ADAM WEI - IUFRO		Aportes De La Normativa Y Las Políticas Públicas Vinculadas Con La Protección De Los Servicios Ecosistémicos. El Caso De Los Recursos Forestales En La Cuenca Del Río Luján, En Argentina	
9:30	9:45	Introduction	
9:45	10:00	IUFRO TASK FORCE /GFEP	
Forests and Water in a Changing Climate GFEP Report		T7:889 · RACHEL PRADO	
Water PES in watersheds of Brazil: the gaps in socio-economic monitoring		T1:1039 · DAVID ELLISON	
The Forest-Water Divide – Is More Debate Really Necessary?		The Forest-Water Divide – Is More Debate Really Necessary?	
10:00	10:15	ANNA TENGBERG · SIWI	
Swedish Water House's Water and Forest Landscape Multi-stakeholder Platform		T7:1037 · NELSON JATEL	
Water governance networks' influence on water ecological systems over time: An Okanagan valley, Canada case study		T1:1116 · CRISTIÁN ALARCÓN	
The Regional Political Ecology of Forest and Water Use and its Relevance for the Global Development Goals of Agenda 2030: A Comparative Approach to Cases in Chile, Sweden and the US		T1:1048 · SHYUE-CHERNG LIAW	
A GIS-based Approach to Identify the Spatial Variability of Vulnerability to Flooding Hazard in Taiwan		T1:1135 · ALAN ABREU	
Replanting Life: ecological restoration as a tool for social inclusion and income generation for prisoners		T1:1253 · ISKRA ALEJANDRA ROJO	
Evaluation integral de efectos socio-ecosistémicos del Pago por Servicios Ambientales en la Ciudad de México. De los indicadores académicos al monitoreo comunitario		T2:1181 · SAMUEL FRANCKE	
Conservación de suelos y aguas como mecanismo de adaptación al cambio climático e impactos forestales en la Cuenca Hidrográfica del Río Maule Chile		T7:1073 · BEVERLEY WEMPLE	
Building partnerships for long-term water monitoring in the southern Ecuadorian Andes		T7:1220 · PAULO RODRIGUES	
Enhancing forest plantation management based on catchment monitoring program		T7:1365 · GIOVANY GUEVARA	
The value of citizen science in freshwater research: An example from agricultural small streams in the Colombian Andes		The value of citizen science in freshwater research: An example from agricultural small streams in the Colombian Andes	
Captación hídrica por escurrimiento cortical de las especies del Bosque Mesófilo de Montaña en Michoacán, México.		T4:1363 · DULCE MARÍA ROSAS RANGEL	
11:15	11:45		

# DAY 2 • Tuesday 06

## Tuesday 06

		Blue Targeting	Ignite Presentations	
11:50	11:55	LINNEA JAGRUD · SWEDISH FOREST AGENCY The Blue Targeting Tool	IGT8:1097 · ENRIQUE VILLALOBOS VOLPI Modelos agroforestales para la diversificación de las opciones productivas de pequeños propietarios del secano de la región de Coquimbo	IGT2:1195 · NUZHAT QAZI Forest Ecosystem Services of Western Himalayan watersheds, India
11:57	12:02	FAO / SIWI Moving Forward, Forest/Water Champions, Talanoa Dialogue, COP 21, Input and Dialogue with session participants:  What are people doing? What are the opportunities? What are the challenges? Are things missing?  Is there a willingness to collaborate? How?  What processes/networks or activities can we link up to (including policy processes)?	IGT11:945 · FRANÇOIS-NICOLAS ROBINNE Modelos agroforestales para la diversificación de las opciones productivas de pequeños propietarios del secano de la región de Coquimbo	IGT9:1239 · ENRIQUE CRUZ Evaluación de la provisión de servicio ecosistémico de provisión de agua bajo escenarios de restauración de bosque nativo para la adaptación al cambio climático y su efecto en la producción forestal
12:05	12:09		IGT11:1129 · TOMÁS MUÑOZ-SALAZAR Planificación territorial para una gestión integrada de recursos hídricos: caso de estudio zonas de montaña del río Claro de Rengo, Región de O'Higgins	IGT9:1023 · RENCAI DONG Exploring the priority area of forest restoration projects in Lugu Lake, China
12:11	12:16		IGT2:995 · AIMÉ LUCILA IGLESIAS Establecimiento de especies forestales invasoras en un contexto de cambio climático	IGT4:1156 · SAMUEL FRANCKE Análisis comparado de la legislación internacional de sistemas buffer "Zonas de Manejo de Cauce con Énfasis en América Latina y Chile"
12:45	14:30	Lunch / Lunch Session: IUFRO Task Force on Forests, Soil and Water Interactions		
		Nahmías 2	Nahmías 3	Nahmías 4
		M Esteban Jobbagy	M Mauricio Galleguillos	M Mauricio Zambrano
14:30	14:45	T2:1264 · EMILY CRAMPE A comparison of convolution and spatially distributed models to estimate mean residence time at the HJ Andrews Experimental Forest	T8:1094 · BID WEBB Investigating the impact of trees and hedgerows on landscape hydrology	T11:953 · FRANÇOIS-NICOLAS ROBINNE A simple, reproducible model to assess regional-scale community water supply hazard from wildfire
14:45	15:00	T2:1311 · VIOLETA TOLORZA Landscape scale erosion after the huge Las Máquinas wildfire in the decennial context	T8:1298 · BEATRIZ E. MARÍN Relación del mantillo y la biomasa de raíces con la conductividad hidráulica del suelo en bosques mesófilos secundarios y agroecosistemas cafetaleros en Veracruz, México	T11:973 · JESSICA SÁNCHEZ LONDOÑO Adaptation of ECOSER mapping platform to tropical mountain basins in the Colombian Andes: an assessment of forest effects on water-related ecosystem services
15:00	15:15	T2:1349 · DUNCAN CHRISTIE Cambios hidrológicos y ambientales en el Altiplano sudamericano, pasado y futuro	T8:1194 · THALIA GUARDIA Variación del balance hidrólico debido a la sustitución de matorral por cultivo frutal en laderas de Chile Central	T11:991 · LARA GABRIELLE GARCIA Simulating effects of landscape composition on water availability to downstream water users
15:15	15:30	T2:962 · KAI SCHWÄRZEL Partitioning of Evapotranspiration in a multi-layer forest stand in a water scarce region	T8:1131 · ENRIQUE CRUZ Impactos de la ganadería y la tala sobre los bosques nativos de conservación y el servicio ecosistémico de calidad de agua a escala de cuenca	T11:1001 · TREVOR WALTER Un modelo de análisis espacial multi-criterio para el resguardo ambiental y social en la potencial expansión forestal en Chile
15:30	15:45	T2:920 · SUSAN QUICK Woodland waterworlds 3: Resilience to climate change	T9:1130 · KATHERINE VÁSQUEZ Hidrología de cuencas de cabecera con bosques en estado inicial: comparación entre vegetación nativa y eucaliptus	T11:1072 · AURO ALMEIDA Modelling the effect of vegetation and soil on streamflow at a catchment scale
15:45	16:00	T2:946 · GUILLERMO BARRIENTOS The effects of topography and forest management on water storage in catchments in central-southern Chile.		T11:1133 · JACQUELINE SERRAN Undisciplinary thinking needed to manage risks to boreal water resources as Canada transitions to a low carbon future
16:00	16:15	..... CHANGE FROM PARALLEL SESSIONS TO PLENARY SESSION .....		
		Aula Magna UACH		
		M Antonio Lara		
16:15	16:45		Silvio Ferraz · Understanding and managing hydrological effects of fast wood plantations in Brazil	
16:45	17:00		Esteban Jobbagy · Water cycling in the retreating dry forests of Argentina: News from an unleashed beast	
17:00	17:30		Coffee Break	
		M Kevin Bishop		
17:30	19:00		Discussion of the IUFRO Global Assessment: Forest and Water on a Changing Planet	Poster Session

# Field Trips



## **Option 1 · Puerto Corral and Reserva Costera Valdiviana**

Water provision and rainforest ecological restoration processes.

## **Option 2 · Fitzroya forests**

Monitoring of carbon budgets, forest productivity and water balances

## **Option 3 · Llancahue**

Water supplies and native forests management in an international priority site for conservation.

## **Option 4 · San Pablo de Tregua**

Experiment paired watersheds and mixed old growth forests.

## **Option 5 · Paillaco – Pichiquema**

Rural water management, forest regulation and native forest restoration.

## **Option 6 · Futa River – BLUE TARGET TOOL**

Designing the riparian buffer zone alongside in forested landscapes.



Image · The Nature Conservancy Chile - Colun Región de Los Ríos

# DAY 4 • Thursday 08

## Legend

### Conference Themes

- T1** Forests and water: the role of arts, humanities, and communication
- T2** The 2030 Agenda framework for forests and waters
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### Conference

- Opening and closing events
- Coffee break
- Keynote Sessions
- Lunch
- Ignite Presentation
- Aula Magna room
- Nahmias room
- Discussions
- Moderator

## Thursday 08

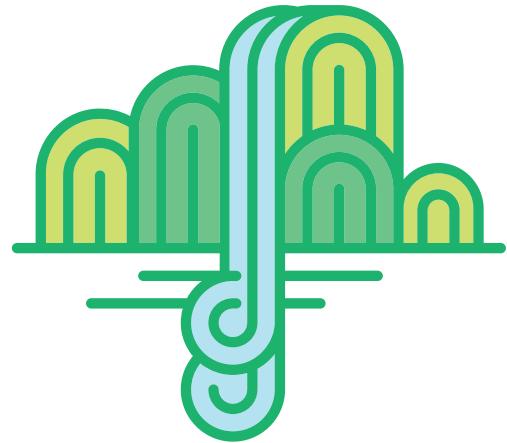
		Aula Magna UACh		
8:45	9:15		M Kevin Bishop	
8:45	9:15		Mingfang Zhang - Think big on forest and water interactions in a changing environment	
9:15	9:30	..... CHANGE FROM PLENARY SESSION TO PARALLEL SESSIONS .....		
Nahmías 2		Nahmías 3	Nahmías 4	
9:30	9:45	T5:906 · BRENDA BAILLIE The impact of an extreme rainfall event on stream and riparian ecosystems and their recovery, in a recently harvested forest in New Zealand	T2:1099 · LAWRENCE BAND Forest biodiversity, climate change and urban water supply in the United States southeast	
9:45	10:00	T5:950 · CECÍLIA LEAL How does disturbance in riparian forests affect Amazonian stream biota?	T9:1014 · KELLY TONELLO Native and exotic forest species: similar or different in water use efficiency?	
10:00	10:15	T5:1219 · FRANCISCO JESÚS PEÑAS Effects of exotic forest plantations on functional and structural indicators of stream health in south-central Chile	T9:1102 · HAIBIN LIANG Soil moisture decline following the plantation of Robinia pseudoacacia forests: Evidence from the Loess Plateau	
10:15	10:30	T5:1227 · JOHN RICHARDSON Recovery trajectories of streams and riparian areas after forest management	T9:1123 · ALINE FRANZOI Recovering soil infiltration capacity along 50 years of natural regeneration on Atlantic forest patches	
10:30	10:45	T5:1308 · CLAUDIO SOTO-AZAT Amphibians as indicators of healthy forests	T9:1157 · ELTON ABEL Restoration of the hydrological functions on the Ubatiba river watershed in the city of Maricá, Rio de Janeiro, Brazil	
10:45	11:00	T2:1109 · KLAS LUCANDER Modelling the effects of climate change and nitrogen fertilisation on nitrogen leaching and forest soil organic carbon	T9:1096 · MARCIA SOUSA DO NASCIMENTO Management practice's performance in improving infiltration process on areas under active restoration	
11:00	11:15	T7:1118 · CARLOS LLERENA Local perceptions of benefits or losses from Eucalyptus and Pine plantations in Cajamarca and Ancash, Peru.	T9:968 · VIVIEN BONNEOEUR What do we know about the effects of forestation on soil- and water-related ecosystem services in the Andes?	
11:15	11:45	Coffee Break	T2:1018 · HYUNG TAE CHOI Assessment of the effect of different thinning intensity on the water cycle of the conifer plantation in South Korea	

# DAY 4 • Thursday 08

Thursday 08

		Nahmías 2	Nahmías 3	Nahmías 4
		Ignite Presentations		
11:50	11:55	<span style="color: orange;">◆</span> <b>M Julia Jones</b> <b>IGT5: 1104 - DANIELA NUÑEZ</b> Respuestas de macroinvertebrados al establecimiento de una mini central hidroeléctrica	<span style="color: orange;">◆</span> <b>M Antonio Lara</b> <b>IGT6:1203 - RICHARD HALL</b> Forrest Gump and Reflections on a Forested Coastal Landscape in Alabama	<span style="color: orange;">◆</span> <b>M Adam Wei</b> <b>IGT2:1289 - JULIA JONES</b> Summer streamflow deficits from regenerating Douglas-fir forest in the Pacific Northwest, USA
11:57	12:02	<span style="color: orange;">◆</span> <b>IGT5:1364 - GIOVANY GUEVARA</b> Hydrobiology and biogeochemistry in headwater streams of southern Chile: Effect of forest management	<span style="color: orange;">◆</span> <b>IGT6:1306 - RAQUEL ROMERO</b> Árboles viejos, retosños y semillas: Las voces de los campesinos del bosque nublado	<span style="color: orange;">◆</span> <b>IGT2:1303 - FRANCISCO BALOCCHI</b> Water balance of catchments covered with Pinus radiata and Native Forest before and after the fires of Jan 2017
12:05	12:09	<span style="color: orange;">◆</span> <b>IGT5:1255 - ISKRA ALEJANDRA ROJO</b> Biodiversidad de flora y fauna asociada a los cuerpos de agua superficiales, su calidad y su cantidad en Suelo de Conservación de la Ciudad de México, México	<span style="color: orange;">◆</span> <b>IGT11:1347 - FERNANDO GIMEN</b> Evaluación de la respuesta hidrológica bajo distintos escenarios de cobertura de suelo en la cuenca del río Lumaco, Chile	<span style="color: orange;">◆</span> <b>IGT2:1270 - MIGUEL ANGEL LARA GOMEZ</b> Cuantificación de errores asociados al diseño de un inventario LiDAR en una plantación de Pinus radiata en Chile
12:11	12:16	<span style="color: orange;">◆</span> <b>IGT10:1214 - ADEGBITE ADELEKE ADESIPON</b> Impact of mining on the floristic association of gold mined sites in Southwest Nigeria	<span style="color: orange;">◆</span> <b>IGT8:905 - CLARA MARÍA MINAVERRY</b> El Valor Del Estudio Y Aplicación De Normas Obligatorias Y Voluntarias En La Protección De Los Ecosistemas "Bosque – Agua" A Traves Un Enfoque Interdisciplinario	<span style="color: orange;">◆</span> <b>IGT2:1274 - GUILLERMO PALACIOS</b> Estudio de la tipificación del Miombo en la provincia de Huambo (Angola) a través del uso de imágenes de media y alta resolución
12:45	14:30	<i>Lunch</i>		
14:30	14:45	<span style="color: orange;">◆</span> <b>M Paula Meli</b> <b>T5:1055 - LUIS URIBE</b> Biodiversidad taxonómica y funcional de macroinvertebrados en arroyos de cuencas intactas e impactadas de la Región de Aysén	<span style="color: orange;">◆</span> <b>M Ge Sun</b> <b>T9:1354 - JULIA JONES</b> Water scarcity: fish, forests, people, agriculture – a case study from semi-arid southeast Washington, United States	<span style="color: orange;">◆</span> <b>M Fred Swanson</b> <b>T7:1284 - CHRISTIAN LITTLE</b> Priorizando áreas para recuperar bosques nativos en el centro sur de Chile: un enfoque a partir de la provisión de agua como un servicio que prestan las cuencas forestales
14:45	15:00	<span style="color: orange;">◆</span> <b>T5:1108 - ANNA ASTORGA</b> Temperate forests as ecosystem references from the watershed perspective in Southern Chile	<span style="color: orange;">◆</span> <b>T9:969 - LAURA VICTORIA CANO ARBOLEDA</b> Evaluating ecohydrological function of tree species in ecological restoration projects through their functional traits	<span style="color: orange;">◆</span> <b>T7:1052 - MARCOS KARLIN</b> Cambios en el uso del suelo: ¿cómo alteran las tasas de infiltración en el centro de argentina?
15:00	15:15	<span style="color: orange;">◆</span> <b>T5:1302 - RAQUEL ROMERO</b> Rol de las bromelias en la captura de agua de niebla, el flujo de materia orgánica y nutrientes en un bosque nublado en Colombia	<span style="color: orange;">◆</span> <b>T9:1022 - JI QI</b> Longleaf Pine Restoration for Streamflow in the Lower Flint River	<span style="color: orange;">◆</span> <b>T4:1088 - SEONGHUN JEONG</b> Stand-scale estimation of throughfall and stemflow for Japanese coniferous plantations
15:15	15:30	<span style="color: orange;">◆</span> <b>T10:997 - STEVEN BRANTLEY</b> Frequent-fire conifer forests of North America: Understanding trade-offs between water yield and carbon sequestration	<span style="color: orange;">◆</span> <b>T9:992 - SILVIO FERRAZ (GLÁUCIA SANTOS)</b> Aquatic Litter Decomposition In Riparian Vegetation Under The Influence Of Eucalyptus Trees	<span style="color: orange;">◆</span> <b>T2:1111 - SANTIAGO VALENCIA CÁRDENAS</b> Effects of environmental change on water availability of a tropical mountain watershed in Colombia
15:30	15:45	<span style="color: orange;">◆</span> <b>T10:1064 CECILIA AKSELSSON</b> Trade-offs between bioenergy extraction in boreal forests and soil and water quality: A dynamic modelling study in long-term experiments	<span style="color: orange;">◆</span> <b>T9:1093 - RATKO RISTIĆ</b> Hydrological effects of forest vegetation in watershed restoration in serbia	<span style="color: orange;">◆</span> <b>T4:1369 - ALBERTO GOMEZ-TAGLE</b> Hydrological impact of the green gold (avocado culture) in central Mexico; rainfall partition and water use comparison with native forest
15:45	16:00	..... CHANGE FROM PARALLEL SESSIONS TO PLENARY SESSION .....		
16:00	17:00	<b>Aula Magna UACH</b>		
17:00	17:30	<b>M Julia Jones</b>		
17:30	20:00	<b>Final Discussion and Conclusion</b>		
17:30	20:00	..... CHANGE FROM PARALLEL SESSIONS TO MAC (CONTEMPORARY ART MUSEUM) <a href="https://vimeo.com/216903063">HTTPS://VIMEO.COM/216903063</a> .....		
17:30	20:00	<b>Cocktail and artistic event</b>		

# Posters



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- 1 T1 **Clara Minaverry** La normativa (sobre políticas públicas) orientada hacia el cumplimiento de los objetivos de desarrollo sostenible a 2030 en la protección de los bosques y del agua en Argentina y Uruguay

- 
- 2 T1 **Irena Creed** Rescaling the Forest-Water Discourse to Meet UN Global Goals

- 
- 3 T1 **Nathalia Granato** The Brazilian Tree Industry and the SDGs most linked to water resources

- 
- 4 T1 **Julia Jones** Unexpected resilience of large-scale river infrastructure and water management systems to climate change

- 
- 5 T10 **Don White** Water use and water use efficiency of Eucalyptus and Pinus plantations modelled using CABALA, 3PG and WAVES

- 
- 6 T11 **James Rodríguez** Impact of land-use change on Valdivian Temperate Forest and its ecosystem services: basis for planning decision-making

- 
- 7 T11 **Jami Nettles** Simple upscaling to bracket estimates of water yield change due to forest management

- 
- 8 T11 **Juan A. Blanco** Fertilization by carbon dioxide plays a minor role in long-term growth patterns of Scots pine in mixed woods at the Pyrenees

- 
- 9 T11 **Juan José Quiroga** Modelos de Caudal estival en base a variables ecohidrológicas asociadas a Bosque Nativo, plantaciones de *Pinus radiata* y *Eucaliptus globulus* en cuencas distribuidas entre el Bío-Bío y la Araucanía.

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- 10 T11 **Marlene Huerta** Snowfall interception in a deciduous Nothofagus forest and implications for spatial snowpack distribution.

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- 11 T11 **Marlene Huerta** Using shifting species distribution models to inform rainfall runoff models

- 
- 12 T11 Mauricio Galleguillos** Assessing spatio-temporal impacts of global change on water and biomass production processes at catchment scale: a synergistic approach based on remote sensing and coupled hydrological model.
- 
- 13 T11 Pilar Mena** Caracterización de los parámetros morfométricos de cuencas andinas relacionados a crecidas
- 
- 14 T11 Xavier Maza** Metodología para el uso de redes neuronales artificiales en la predicción de variables hidrológicas: Una revisión
- 
- 15 T2 Andrés Iroumé** Moderate increases in runoff after forest harvesting: the contrasting effects of tree cutting and long term drought
- 
- 16 T2 Carol Cerdá-Peña** Intra-specific and inter-specific variations of leaf wax fatty acid from three plants in riparian ecosystem from temperate forest
- 
- 17 T2 Cong Wang** Natural restoration might be more suitable in China's Loess Plateau- a case study for two typeical restoratoin species
- 
- 18 T2 Elizabeth Ramirez** Evaluation of the differences between the components of the water balance between scrub and plantations of *Pinus radiata*
- 
- 19 T2 Guillermo Barrientos** Effect of intensive management forestry on headwater catchments, application of the TETIS® model
- 
- 20 T2 Guillermo Palacios** Cartografía de daños por *Candidatus Phytoplasma pini* sobre masas de *Pinus halepensis* Mill. a partir de información del sensor MSI-Sentinel 2A
- 
- 21 T2 Guillermo Palacios** Comparativa de los errores obtenidos en un inventario LiDAR por variables de masa y de árbol individual en un plantación de *Pinus radiata* en Chile
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<b>22</b>	T2	<b>Ji Qi</b>	Modelling the Effect of Changing Precipitation Inputs on Deep Soil Water Utilization
<b>23</b>	T2	<b>Nataly Miranda</b>	Movimiento de Agua a lo largo de una Ladera de Bosque Nativo en la Cordillera de la Costa de la Región del Maule
<b>24</b>	T2	<b>Rebecca Almeida</b>	Hydrological functions associated to litter deposition in Atlantic forest under secondary succession
<b>25</b>	T2	<b>Shankar Adhikari</b>	Ecosystem Service in Adaptation to Climate Change in Panchase Mountain Ecological Regions of Nepal
<b>26</b>	T2	<b>Shyue-Cherng Liaw</b>	Application of Trend Analysis to Explore Hydrological Variations under Climate Change in the Taimali Stream Basin, Taiwan
<b>27</b>	T2	<b>Steven Brantley</b>	Interspecific Variation in Hydraulic Redistribution and its Importance to Plant Communities
<b>28</b>	T2	<b>Xing Wu</b>	Long-term enhanced nitrous oxide emission and reduced methane uptake after clear cutting from a temperate spruce forest soil
<b>29</b>	T3	<b>Kelly Tonello</b>	Analysis of changes in the Brazilian Forest Code in Permanent Preservation Areas of Top Hills, Mountains and Mountains Ranges
<b>30</b>	T3	<b>Kevin Bishop</b>	Forestry and elevated levels of mercury in aquatic ecosystems: What to do when best management practices are not good enough?
<b>31</b>	T3	<b>O. Stribling Stuber</b>	Fire exclusion increases canopy interception loss in longleaf pine ( <i>Pinus palustris</i> ) forests
<b>32</b>	T4	<b>Carla Chiles</b>	Variable Source Area (VSA) delineation and validation in sub-tropical forested catchments in Brazil
<b>33</b>	T4	<b>Carlos Oyarzún</b>	Las plantaciones forestales y sus efectos sobre la calidad del agua en el centro-sur de Chile: una revisión
<b>34</b>	T4	<b>Giulia Baldacconi</b>	Water-related ecosystem services in landscapes with several coverage conditions of forested-savanna
<b>35</b>	T4	<b>María Poca</b>	Woodland's degradation and its effect on soil profile water dynamics in highlands of central Argentina

36	T5	<b>Guillermo Barrientos</b>	Characterization and abundance of diatoms in forest watersheds to evaluate the effect of forest management
37	T5	<b>M<sup>a</sup> Jesús Suazo</b>	A preliminary study of the ecosystem health of Lake Pullinque and threats of surrounding area
38	T7	<b>Kelly Tonello</b>	Hydro-environmental diagnosis of the conservation of the springs, Itanguá catchment, Brazil
39	T7	<b>Kelly Tonello</b>	The protection of springs in consolidated urban areas: case study in Brazil
40	T9	<b>Alan Abreu</b>	Riparian forest restoration in Macacu river with prisoners workforce
41	T9	<b>Carla Josef</b>	Measurements of surface water flow in restored springs at the Mantiqueira mountains in Extrema, MG/Brasil
42	T9	<b>José Omar Carter</b>	Restauración, protección y conservación de la micro cuenca productora de agua de la comuna de Corral, Región de Los Ríos Chile
43	T9	<b>Kelly Tonello</b>	Indicators of forest restoration: a contribution from the soil structure
44	T9	<b>Kelly Tonello</b>	Medium and Large-Size Mammals in regeneration área in Savana, Brazil
45	T9	<b>Xiomara Gálvez</b>	Propuesta de un índice de vulnerabilidad social ante pérdida de servicio ecosistémico provisión de agua: caso de estudio para un sector rural ubicado - en lago ranco, región de los ríos, Chile

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